



Scottish Natural Heritage

# A handbook on environmental impact assessment

Guidance for Competent Authorities, Consultees and others involved in the Environmental Impact Assessment Process in Scotland

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involved in the Environmental Impact Assessment Process  
in Scotland**

Natural Heritage Management

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# List of abbreviations

Some abbreviations are only used in Figures and Annexes to save space.

AGLV	Area of Great Landscape Value
CCS	Countryside Commission for Scotland
DoE	Department of Environment (England)
EA	Environmental Assessment (the whole process)
EASR 88	Former Environmental Assessment (Scotland) Regulations 1988
EIASR 99	Environmental Impact Assessment (Scotland) Regulations 1999
EIASR 11	The Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011
EIA	Environmental Impact Assessment (the whole process)
EC	European Community
e.g.	For example
ES	Environmental Statement
HRA	Habitats Regulations Appraisal
IEMA	Institute of Environmental Management and Assessment
JNCC	Joint Nature Conservation Committee
LA	Local Authority
LNR	Local Nature Reserve
NCC	Nature Conservancy Council
NCCS	Nature Conservancy Council for Scotland
NNR	National Nature Reserve
NPPG	National Planning Policy Guideline
NSA	National Scenic Area
NVC	National Vegetation Classification
PAN	Planning Advice Note
PLI	Public Local Inquiry
RC	Regional Council
Reg.	Regulation
ROMP	Review of old minerals permissions

RSPB	Royal Society for the Protection of Birds
S.	Section (of Act of Parliament)
SAC	Special Area of Conservation
Sch.	Schedule
SCI	Site of Community Importance
SEA	Strategic Environmental Assessment
SEPA	Scottish Environment Protection Agency
SINC	Site of Importance for Nature Conservation
SINS	Site of Importance to Natural Science
SMS	The Scottish Ministers
SNH	Scottish Natural Heritage
SoS	Secretary of State
SPA	Special Protection Area
SPP	Scottish Planning Policy
SSSI	Site of Special Scientific Interest
TPO	Tree Preservation Order
UK	United Kingdom
WGS	Woodland Grant Scheme

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# Short reference section

This is a short reference section to enable quick navigation about the Environmental Impact Assessment Handbook. The headings below will take you to a short summary of the main sections in the Handbook. The links in the short summary will take you to the related full text in the Handbook.

- 1 For a general outline and introduction to the EIA process:**  
Go to [section 1](#) below
- 2 To understand the ‘screening’ process - whether EIA may be required:**  
Go to [section 2](#) below
- 3 To understand the ‘scoping’ process to determine what an Environmental Statement should cover in any particular case:**  
Go to [section 3](#) below
- 4 To see how an Environmental Statement is prepared:**  
Go to [section 4](#) below
- 5 For other procedures and good practice before the submission of an Environmental Statement:**  
Go to [section 5](#) below
- 6 To see how an Environmental Statement is considered:**  
Go to [section 6](#) below
- 7 To follow the consultation and publicity procedures:**  
Go to [section 7](#) below
- 8 To see how further environmental information and modifications to the project are dealt with:**  
Go to [section 8](#) below
- 9 To see how EIA influences the decision making stage**  
Go to [section 9](#) below
- 10 To see how the EIA process is implemented, including mitigation measures and monitoring:**  
Go to [section 10](#) below
- 11 For a glossary of EIA terms:**  
Go to Handbook [Annexe 1 Glossary](#)
- 12 For a resume of current national policy and guidance:**  
Go to Handbook [Annexe 3](#)
- 13 For a guide to the scoping and review of an Environmental Statement:**  
Link to Handbook [Attachment A](#)
- 14 For technical guidance on assessing impacts on the natural heritage:**  
Go to [section 11](#) below



## 1 Introduction to the Environmental Impact Assessment Process

### The Environmental Impact Assessment process

The EIA process is intended to improve environmental protection. It informs the decision making processes by which public bodies, referred to as 'competent authorities', determine whether certain projects should go ahead. It provides these bodies with a written statement about the project's effects on the environment that are likely to be significant (the environmental statement or 'ES'), together with the comments of the public and statutory environmental organisations.

[More>>](#) [Link to Handbook B.1](#)

### The legislative background

EIA has been introduced in Scotland mainly as a result of Directives from the European Community (EC). The requirements of the EC Directives are transposed into Scots law by Regulations made by the Scottish Government. Case law in the European Court of Justice and the courts of Scotland and England provide important rulings on how the Directive and Regulations should be applied.

[More>>](#) [Link to Handbook B.2](#)

### The projects that are subject to EIA

The Regulations apply to 'projects'. The types of project which are to be subject to the EIA process are listed in Schedules to the principal regulations. However, for many types of project, whether they are to be subject to EIA will depend on their nature, scale or location and whether they will be likely to have significant effects on the environment.

[More>>](#) [Links to Handbook B.3 and C.1](#)

### Criteria for deciding whether EIA is required

Deciding whether projects would be likely to have significant effects requires checking against some specific criteria set by the Directive and then against indicative thresholds or criteria set out by the Scottish Government. It is for the 'competent authority' to decide whether the project's effects are likely to be significant, taking account of advice from bodies such as SNH, SEPA and Historic Scotland, where necessary.

[More>>](#) [Link to Handbook B.4](#)

### The series of EIA Regulations click here

What we refer to as "the principal regulations" cover projects requiring planning permission and other planning related projects together with roads and drainage schemes. There are other regulations dealing with forestry, intensive agriculture, offshore petroleum production and pipelines, gas pipelines, nuclear reactors, water management works, marine dredging of minerals, other marine works, major transport and electricity works.

[More>>](#) [Link to B.5](#)

### **[The contents of an environmental statement click here](#)**

The Regulations set out specific requirements for what an environmental statement must contain. It must include the publication of a 'non-technical summary'.

[More>>](#) [Link to Handbook B.6](#)

### **[Importance of compliance with the Directive click here](#)**

If the Regulations are not complied with a decision may be quashed by the courts because the process did not consider all significant environmental effects or it did not follow the procedures.

[More>>](#) [Link to Handbook B.7](#)

### **[EIA links with other types of assessment click here](#)**

Strategic environmental assessment (SEA) relates to plans, programmes and strategies, but may be closely related to project EIA and the two types of assessment may be undertaken in sequence. The requirements for assessment of projects under the Habitats Regulations differ in important respects from those of the EIA regulations, but they are often undertaken in parallel.

[More>>](#) [Link to Handbook B.8](#)

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## 2 EIA: Deciding Whether EIA Is Required: The “Screening” Process

### The projects that are subject to EIA

The principal regulations apply to ‘projects’. The types of project which are to be subject to the EIA process are listed in Schedules to EIASR 11. However, for many types of project, whether they are to be subject to EIA will depend on their nature, scale or location and whether they will be likely to have significant effects on the environment.

[More>>](#) Links to Handbook [B.3](#) and [C.1](#) and [Annexe 4](#)

### Criteria for deciding whether EIA is required

Deciding whether projects would be likely to have significant effects requires checking against some specific criteria set by the Directive and then against indicative thresholds or criteria set out by the Scottish Government. It is for the ‘competent authority’ to decide whether the project’s effects are likely to be significant, taking account of advice from bodies such as SNH, SEPA and Historic Scotland, where necessary.

[More>>](#) Links to Handbook [B.4](#) and [Annexe 4](#)

### The ‘Screening’ process

Every project must be ‘screened’ by the authority responsible for giving it consent (‘the competent authority’) to see if it must be subject to EIA procedures. All projects listed in Schedule 1 of the EIASR 11 must be subject to EIA. Whether projects of a kind listed in Schedule 2 of the EIASR 11 are to be subject to EIA will depend on their nature, scale or location and whether they will be likely to have significant effects on the environment. Project proposers can ask competent authorities for a ‘screening opinion’, which will decide whether the project is to be subject to EIA. The Scottish Ministers also have powers to issue a ‘screening direction’.

[More>>](#) Links to Handbook [C.1](#) and [Annexe 4](#)

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## 3 EIA: Scoping the Environmental Statement

### Scoping the Environmental Statement

This is perhaps the most important single step in the EIA process. Every project proposer is strongly encouraged to apply to the competent authority for a 'scoping opinion', which must be issued within five weeks of the request under EIASR 11 (timescales will vary for other regimes, e.g. electricity consents, therefore the relevant Regulations should be consulted in each case). The scoping opinion allows the competent authority to decide what the main effects of the proposal are likely to be and, therefore, the topics on which the environmental statement should focus. It is a key stage in ensuring that the process is proportional to the project and its effects on the environment.

[More>> Link to Handbook C.4](#)

### What the Environmental Statement should contain

The Regulations set out specific requirements for what an environmental statement must contain. It must include the publication of a 'non-technical summary'.

[More>> Link to Handbook B.6](#)

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## 4 How an Environmental Statement is Prepared

### What the Environmental Statement should contain

The Regulations set out specific requirements for what an environmental statement must contain. It must include the publication of a 'non-technical summary'.

[More>> Link to Handbook B.6](#)

### Baseline environmental information

The preparation of the environmental statement is the responsibility of the project proposer. The 'baseline environmental information' should be relevant, accurate, complete and up-to-date and competently gathered, analysed and presented. A prediction of how the baseline conditions are likely to change in the absence of the project should be recorded, taking account, for example, of climate change and the effects of other projects with consent.

[More>> Link to Handbook C.6](#)

### Predicting the environmental impacts

The 'environmental impacts' of the project, should be predicted using the best techniques, skills, methodologies and models available and should be realistic, adopting the 'worst case scenario' where appropriate. The effects of a project on the environment may, for example, be positive or negative; individual or cumulative; direct or indirect and so on. Predicting impacts will need to consider how likely the impacts are to occur and compare the baseline and predicted changes without the scheme (the 'do-nothing alternative') and the significance of the impacts.

[More>> Link to Handbook C.7](#)

### Assessing the significance of impacts

The 'significance' of the environmental impacts should be assessed on a clearly explained and rational basis. This should usually take account of the 'sensitivity' to change of the environment or people affected, and the magnitude of the changes, including for example, the scale, location, extent, timing and duration of the impacts.

[More>> Link to Handbook C.8](#)

### Mitigating measures and enhancement

It will be necessary to consider measures designed and incorporated into the project proposal that will counter-act the adverse impacts of a project on the environment and enhance its beneficial effects. They will usually include the sequential consideration of measures to avoid, cancel, reduce, remedy or compensate for adverse effects and measures designed to enhance or otherwise provide a net benefit for the environment.

[More>> Link to Handbook C.9](#)

## Presentation

Environmental statements should be compliant with the principal regulations, but proportional to the nature, scale and location of the project and the significance of its environmental impacts. Statements should be rigorously edited, focused on key issues and should not contain so much detail that they distract readers from important environmental effects; or so lengthy and technical that they deter people from reading them. They should be written in plain English wherever possible, clearly but not lavishly illustrated and structured in a way that makes it easy to use them.

[More>> Link to Handbook C.10](#)

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## **5 EIA: Other Procedures and Good Practice Before Submission of the Environmental Statement**

### **Requiring the submission of an environmental statement**

Competent authorities and the Scottish Ministers have the power to require submission of an environmental statement in any case where a project should be subject to the EIA procedures.

[More>> Link to Handbook C.2](#)

### **Preliminary contact and liaison**

Early contact and liaison is of benefit to the competent authority, the project proposers and the consultees. It will speed up the decision making process, make the EIA process more effective and ensure that all significant environmental effects are properly considered from the outset. It can also avoid unnecessary work and ensure that the process is proportional to the project and its effects on the environment. The whole process should be carefully planned and programmed.

[More>> Link to Handbook C.3](#)

### **Provision of Information by the statutory consultees**

SNH, SEPA and Historic Scotland, amongst others, have a duty to provide relevant environmental information held by them to further the EIA process, particularly providing it to applicants and proposers preparing an environmental statement, unless the information is held in confidence.

[More>> Link to C.5](#)

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## 6 EIA: Consideration of the Environmental Statement

### The roles of the competent authority, the developer and consultees

The competent authority is responsible for making the decision as to whether the project should be given consent. It must ensure that statutory procedures are followed. It is responsible for requiring further information to be submitted where necessary. The proposer must submit sufficient copies of the environmental statement to enable the statutory consultations and three copies for the Scottish Ministers. Amongst other things, the consultees advise whether the environmental statement is a reliable basis for decision making.

[More>>](#) [Link to Handbook D.1](#)

### Liaison between the competent authority and the project proposer

Dialogue and liaison between consultees, the competent authority and the proposer will generally improve understanding of the project, the environmental issues, the impacts of the project and the views of the consultees. It will usually increase the effectiveness of the EIA process and the influence of consultees on the decision.

[More>>](#) [Link to Handbook D.3](#)

### Reviewing the environmental statement

PAN 1/2013 contains information on the purpose of the review and on the review process. Attachment A to the EIA Handbook provides, in Part 1, a guide to the scoping of an environmental statement; and in Part 2, a structured review of an environmental statement.

[More>>](#) [Links to Handbook D.9](#) and [Attachment A](#)

### Formulating a consultation response [click here](#)

The competent authority has a duty to consider 'the environmental information' before granting consent to any project subject to the EIA process. A consultee's response is a part of the environmental information that the competent authority must consider. The advice of the consultee about the merits of the project itself may be supplemented by an expert review of the environmental statement.

[More>>](#) [Link to Handbook D.10](#)

### Planning Permission in principle and approval of matters specified in conditions

Applications for planning permission in principle and their subsequent applications for approval, consent or agreement are 'multi-stage consents' and EIA procedures can apply at any stage.

[More>>](#) [Link to Handbook D.11](#)

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## 7 EIA: Consultation and Publicity Procedures

### Consultation and publicity

The competent authority has a duty to consult the “consultation bodies” including, but not limited to, SNH, SEPA and Historic Scotland) and to publicise every environmental statement. Regulations prescribe the procedures to be adopted.

[More>> Link to Handbook D.2](#)

### Liaison between the competent authority and the project proposer

Dialogue and liaison between consultees, the competent authority and the proposer will generally improve understanding of the project, the environmental issues, the impacts of the project and the views of the consultees. It will usually increase the effectiveness of the EIA process and the influence of consultees on the decision.

[More>> Link to Handbook D.3](#)

### Wider consultation and dissemination

It is a matter for the competent authority to decide who should be consulted beyond the statutory consultees. However, it is open to other stakeholders to suggest other bodies which should also be consulted. This is particularly important where other bodies are known to hold important and relevant information and/or expertise.

[More>> Link to Handbook D.4](#)

### Transboundary environmental effects

Where a competent authority considers that there may be transboundary effects arising from a project, it must notify the Scottish Government, who will then take any action necessary to undertake transboundary consultations with another Member State.

[More>> Link to Handbook D.5](#)

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## **8 EIA: Further Environmental Information and Modifications to the Project**

### **Requesting further information or evidence**

The competent authority has the power to require certain additional information to be submitted by the proposer under the provisions of the principal regulations. It must then be subject to publicity and consultation in a similar way to the environmental statement.

[More>> Link to Handbook D.6](#)

### **Modifications to the project**

The iterative process of EIA is likely to lead to the proposer, consultees or the competent authority seeking changes to the proposals to avoid or further reduce environmental effects. However, where the modifications would be likely to have significant environmental effects, not already assessed, they must be subject to further assessment under the principal regulations.

[More>> Link to Handbook D.7](#)

### **Further information and Supplementary Environmental Statements**

A competent authority has the power to require further environmental information to be submitted. Conventionally this may be in the form of a Revised or Supplementary Environmental Statement, but these are not statutory processes or terms. The principal regulations only refer to “further information” being required and submitted or to “any other information” which is submitted voluntarily by the proposer. The further information must be subject to publicity and consultation.

[More>> Link to Handbook D.8](#)

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## 9 EIA: The Decision Making Stage

### Adopting the Precautionary Principle

Generally, decisions should be based on the best scientific and other information available. Competent authorities should adopt the precautionary approach in considering environmental information and when deciding whether to consent to projects, in accordance with Government policy such as that in PAN 1/2013.

[More>>](#) Link to Handbook [E.1](#) and [PAN 1/2013](#)

### Relationship of EIA with the development plan and other consent procedures

When dealing with a planning application a planning authority must decide the application in accordance with the development plan unless material considerations indicate otherwise. The environmental information is a material consideration. Research has shown that the EIA process is very influential in decisions as to whether to grant consent to projects.

[More>>](#) Link to Handbook [E.2](#)

### Guaranteeing commitments and compliance

The granting of consent for a project almost always relies on conditions, which are intended to limit or restrict the proposed project or to ensure implementation of the mitigating measures. However, the principal regulations do not require the implementation of the mitigation measures per se, this is left to the consenting procedures. Consequently, the mitigating measures must each be clearly identified and should be guaranteed in the event of the project proceeding.

[More>>](#) Link to Handbook [E.3](#)

### The decision of the competent authority

Competent authorities have a duty to consider the 'environmental information' before granting consent to a project which should be subject to the EIA process. This comprises the environmental statement, all other information submitted by the proposer, the consultation responses of the consultees and representations made by the public. The competent authority must state in writing that the environmental information has been taken into account. It must notify the Scottish Ministers and the consultation bodies of its decision and publicise it.

[More>>](#) Link to Handbook [E.4](#)

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## 10 EIA: Implementation and Compliance

### Compliance and implementation

The competent authority has powers to enforce compliance. However, there is no duty on the competent authority to monitor compliance with conditions and the terms of the consent. Enforcement will often rely on interested parties drawing any non-compliances to the attention of the competent authority. The extent of monitoring for compliance with terms and conditions needs to be judged on a case by case basis.

[More>>](#) Link to Handbook [F.1](#)

### Monitoring programmes

The Directive and principal regulations do not require monitoring procedures to be put in place, only mitigation measures. However, monitoring may be required by conditions or by legal agreements. It is vital that the effectiveness of mitigation is monitored to ensure that it meets the standards and achieves the objectives anticipated in the decision. Monitoring can improve the future mitigation of similar developments.

[More>>](#) Link to Handbook [F.2](#) and [F.3](#)

### Review and reassessment and remedial programmes

These are non-statutory procedures but may be required by conditions or by legal agreements. Provision must be made at the decision making stage to ensure that changes or remedial (i.e. corrective) action can be implemented effectively and quickly if monitoring reveals problems. There may be cases when monitoring to validate the predictions in the environmental statement may be appropriate, but usually monitoring will only be worthwhile if it is reinforced with effective review and remedial action mechanisms.

[More>>](#) Link to Handbook [F.3](#) and [F.2](#)

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## **11 EIA: Technical Guidance on Natural Heritage Impact Assessments**

### **Guidance on assessing landscape and visual impacts [click here](#)**

Link to Handbook Technical [Appendix 1](#)

### **Guidance on assessing ecological impacts [click here](#)**

Link to Handbook Technical [Appendix 2](#)

### **Guidance on assessing earth heritage impacts [click here](#)**

Link to Handbook Technical [Appendix 3](#)

### **Guidance on assessing impacts on soils [click here](#)**

Link to Handbook Technical [Appendix 4](#)

### **Guidance on assessing impacts on outdoor access [click here](#)**

Link to Handbook Technical [Appendix 5](#)

### **Guidance on assessing impacts on the marine environment [click here](#)**

Link to Handbook Technical [Appendix 6](#)

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## Part A

# Introduction to this Handbook

# A.1 Introduction to this handbook

## Box

A.1.1

The Handbook is intended to provide Competent Authorities, statutory consultees and others involved in the Environmental Impact Assessment (EIA) process with practical guidance and a ready source of information about the process. In places it illustrates or concentrates on the treatment of natural heritage issues but, even where there is such a focus, the principles are often more widely applicable to other environmental topics. It is intended to help all of those involved in the process to make it more effective and therefore lead to better informed decisions.

## Key information

A.1.1 This Handbook has been prepared and published in response to many of Scottish Natural Heritage's (SNH) partners expressing a need for a publication of this kind. It utilises the framework and content of an internal Handbook that was first prepared for SNH by David Tyldesley and Associates (DTA) in 1997, and which was extensively revised and reissued following the amendments to the legislation in 1999. A third edition of the Partners' version was published in 2009. It was a major revision, again undertaken by DTA, drawing on further experience, revised policy and guidance from Government and more recent case law. This fourth edition updates the handbook to take account of the comprehensive update of legislation in 2011, emerging case law, and revised policy and guidance. This revision has been undertaken by Dundas & Wilson CS LLP (D&W).

A.1.2 The fourth edition has been prepared with due care and diligence but it is not intended to be an authoritative interpretation of the law or government policy and neither D&W nor SNH can be responsible for any consequences from the use of the Handbook or any errors or omissions. Readers are advised to read the whole of the relevant court judgments and to seek their own legal advice in any particular case. Readers should also bear in mind the frequency with which the Regulations and Government guidance need to be updated and should check for subsequent changes and updates on the website of the [Scottish Government Department of the Built Environment](#).

A.1.3 The Handbook is divided into six parts:

### **Part A: Introduction to this Handbook**

This is a general introduction to the Handbook.

### **Part B: Introduction to the Environmental Impact Assessment Process**

Part B is a general introduction to the EIA process, including the legislative background, the projects that are subject to EIA and the contents of an Environmental Statement.

A.1.4 The rest of the main text of the Handbook then considers each of the main steps in the process of EIA, under four main stages: before the Environmental Statement is submitted; during the consideration of the Environmental Statement; the decision making stage and the post decision stage. Thus, the remaining four sections of the Handbook are as listed below.

### **Part C: Before Submission of the Environmental Statement**

Explaining the various stages before the Environmental Statement is submitted including

- deciding whether an Environmental Statement is required (the screening process);
- requiring the submission of an Environmental Statement;
- preliminary contacts and liaison;
- scoping an Environmental Statement
- provision of information by consultees;

- baseline environmental information;
- predicting environmental impacts;
- assessing the significance of impacts;
- mitigating measures and enhancement; and
- presentation of environmental information.

### **Part D: Consideration of the Environmental Statement (and Project Consent Application)**

Explaining the various stages of considering the Environmental Statement including

- submission of the environmental statement;
- consultation and publicity;
- liaison with the Competent Authority and the proposer;
- wider consultation and dissemination;
- transboundary environmental effects;
- requiring more information or evidence;
- negotiating modifications of the project;
- Supplementary Environmental Statements; and
- reviewing the Environmental Statement.
- formulating a response;
- planning permission in principle and approval of reserved matters specified in conditions.

### **Part E: The Decision Making Stage**

Explaining the decision making stage including

- use of the precautionary principle;
- the relationship of EIA with the development plan and other consent procedures; and
- guaranteeing commitments and compliance with the decision of the Competent Authority; and
- the decision of the Competent Authority.

### **Part F: Implementation and Compliance**

Explaining the stages of implementation of the project including

- ensuring compliance with the terms of any authorisation given, in relation to mitigation and compensation for environmental effects;
- the roles of the parties in these stages, including time scale of Compliance and implementation;
- monitoring programmes; and
- review, reassessment and remedial programmes.

A.1.5 There are then seven Annexes as follows:

- Annexe 1 A Glossary of terms used in the Handbook
- Annexe 2 List of Current Legislation, annotated including a table showing the references of the key stages in each set of EIA Regulations
- Annexe 3 List of Current National Policy and Guidance, annotated
- Annexe 4 Projects Requiring Environmental Impact Assessment



Annexe 5 Annotated References and Bibliography

Annexe 6 Historical Development of Environmental Assessment in Scotland

Annexe 7 List of Principal Legal Cases Referred to

Each Annexe is 'bookmarked' in the document for ease of cross-referencing. Simply click on 'Home', 'Insert', 'Bookmark', select the Annexe and click 'Go to'.

A.1.6 The Handbook contains six Technical Appendices, which deal with detailed methodologies for impact assessment for:

Appendix 1 Landscape and Visual Impact

Appendix 2 Ecological Impact

Appendix 3 Geodiversity Impact

Appendix 4 Soil Impact

Appendix 5 Outdoor Access Impact

Appendix 6 Effects on the Marine Environment

A.1.7 Finally, the Handbook contains, in Attachment A, a 'master' copy of a scoping and review package to assist in scoping and reviewing Environmental Statements.

## Presentation

Blue tinted boxes to summarise key points of information

**Key information**

Orange tinted boxes to highlight key points of advice

**Key Advice**

Good EIA Practice is in a green tinted box

**Good EIA Practice**

A.1.8 This Handbook covers a complex and often detailed range of information, policy advice, guidance and statutory and non-statutory procedures relating to the whole of the EIA process. To make it more readable and easier to use, the text includes a series of figures and boxes. All of these are numbered for reference purposes.

The boxes used are as follows:

## The Principal Regulations

A.1.9 Previous versions of the Handbook have used acronyms to refer to the various sets of regulations, such as 'EIASR99'. With the increasing number and amendment of regulations, the escalation of acronyms reduced the readability of the text, so in this edition, each set of regulations is referred to by a name reflecting the sector(s) to which it applies, except The Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011, which are referred to as 'the principal regulations'. This is not because they are more important than other regulations but the large majority of EIA is undertaken under their provisions.

## Application to Project Types

- A.1.10 EIA is required for a wide range of project types. This Handbook applies to all project types in terms of the basic process of EIA. However, to continuously refer to all the different types of projects and different Competent Authorities and project proposers would make the text cumbersome and difficult to follow. For this reason and because the main body of the EIA guidance from government (Circular 03/2011<sup>1</sup>) addresses the EIA process in relation to the town and country planning system, this Handbook prefers to focus on those procedures. Unless otherwise indicated the advice in this Handbook applies to the EIA process in respect of all project types, even though it concentrates on the principal regulations and the Circular relating to planning projects. Where a specific procedure relates only or primarily to planning authorities under the principal regulations then the term “planning authority” is used instead of “Competent Authority”.

## Scope of EIA Projects and Application of the Different EIA Regulations

- A.1.11 Annexe 2 Table 1 of this Handbook lists all the relevant EIA Regulations relating to the different types of projects and their consent procedures. A summary of the scope of EIA regulations applicable to a wide variety of project types is given in Annexe 2 Table 2. This is followed by Table 3 which identifies the main project types in the various regulations and, for each one, summarises which is the Competent Authority; the relevant consent procedures; the relevant EIA Regulations; their geographical jurisdiction, the reference of the Statutory Instrument and the date it came into force.

## References to all Project Proposers and Developers as “proposers”

- A.1.12 For the purposes of this Handbook, to help make the text more readable, all project developers and proposers are referred to as “proposers”, whether or not their project is for public service or infrastructure or for commercial purposes.

## Web Links

- A.1.13 In order to keep the text readable, whilst also providing immediate access to key documents referred to, web links are provided either in the run of text or as footnotes to the relevant page, for the first or principal reference to key Regulations, Circulars and the EIA Planning Advice Note 1/2013 .

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<sup>1</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

## Part B

# Introduction to the Environmental Impact Assessment Process

## B.1 Introduction to the EIA process

Box  
B.1.1

Key information

### The EIA Process

Environmental Impact Assessment' (EIA) is the whole process of:

1. gathering environmental information;
2. describing a development or other project;
3. predicting and describing the environmental effects of the project;
4. defining ways of avoiding, cancelling, reducing or compensating for the adverse effects;
5. publicising the project and the Environmental Statement including a clear, non- technical summary of the likely effects, so that the public can play an effective part in the decision making process;
6. consulting specific bodies with responsibilities for the environment;
7. taking all of this information into account before deciding whether to allow the project to proceed; and
8. ensuring that the measures prescribed to avoid, cancel, reduce or compensate for environmental effects are implemented.

B.1.1 The 'Environmental Statement' (ES) is the report normally produced by, or on behalf of, and at the expense of, the proposer which must be submitted with the application for whatever form of consent or other authorisation is required. It embraces the first four elements of:

1. gathering environmental information;
2. describing the project;
3. predicting and describing the environmental effects of the project; and
4. defining ways of avoiding, reducing or compensating for the adverse effects.

It is only one component, albeit a very important one, of the environmental information that must be taken into account by the decision maker. (See paragraphs 22 and 94 - 100, [Circular 03/2011](#)).

B.1.2 The 'Environmental Information' that must be taken into account by the decision maker includes the Environmental Statement and all the comments and representations made by any organisation or member of the public as a result of the consultations and publicity that must be undertaken in every case. It also includes any further environmental or other information submitted by the proposer which is relevant to the decision.

B.1.3 Paragraph 8 of Circular 03/2011 describes the EIA process as:

"The main aim of the EIA Directive is to ensure that the authority granting consent (the 'Competent Authority') for a particular project makes its decision in full knowledge of any likely significant effects on the environment. The Directive therefore sets out a procedure that must be followed for certain types of project before they can be given 'development consent'. This procedure - known as Environmental Impact Assessment (EIA) - is a means of drawing together, in a systematic way, an assessment of a project's likely significant environmental effects. This helps to ensure that the importance of the predicted effects, and the scope for reducing any adverse effects, are properly understood by the public and the competent authority before it makes its decision."

**Box****Key information**

B.1.2 It is important to appreciate that EIA is not, in itself, a decision making process.

It is a process that is integrated into existing decision making procedures, for example, the consideration of planning applications or applications for an Improvement Order in respect of land drainage, in order to better inform these decisions as to the environmental implications of the project. In this way, it contributes to the wider objectives of sustainable development.

B.1.4 Consequently, an EIA is not usually undertaken in isolation of some other procedure. Indeed, some procedures, such as the control of the intensive use of uncultivated land and semi-natural areas, were only introduced to provide a regulatory process to ensure compliance with the Directive. The main aim is to protect land which has a particular natural heritage or historic environment value or importance. Comments made on EIA cases still need to focus strongly on representations as to whether the project should proceed, or how it should proceed.

**Box****Key advice**

B.1.3 Comments on an Environmental Statement should be used to support and justify the representations made in respect of whether the project should be given consent, and if so, what conditions or limitations it should be subject to.

Representations may also relate to the quality or compliance of the Environmental Statement.

B.1.5 The advice in Box B.1.3 is fundamental to the process. This Handbook seeks to distinguish between advice on whether the project should be consented and comments on the environmental information to be taken into account. For example, it is perfectly possible that a consultee may find the conclusions of an Environmental Statement to be appropriate and acceptable, but to conclude that the project ought not to be given consent. Equally, a perfectly acceptable project, from a consultee's point of view, could be accompanied by an inadequate Environmental Statement. In the latter case, the consultee would not, of course object to the proposal, but may advise the Competent Authority about the inadequacy of the Environmental Statement.

**Box****Key information**

B.1.4 EIA should be of benefit to project proposers, decision makers and all of those consulted in the decision making process, including the public. It should help to ensure that development is sustainable, that development does not exceed the capacity of the environment to accommodate change without long-term harm. It should help to expedite the decision making process and guide the implementation of those projects that do proceed.

Many of the procedures are required by law but the effectiveness of EIA relies substantially on integrity and good practice.

B.1.6 EIA is intended to ensure that the environmental effects of major developments and other projects likely to have significant environmental effects are fully investigated, understood and taken into account before decisions are made on whether the projects should proceed. Fundamental to the process are the statutory requirements for steps 5 - 8 in Box B.1.1 above, namely:

1. the publicising of the project and the Environmental Statement, including a clear, non-technical summary of the likely effects, so that the public can play an effective part in the

- decision making process;
2. consultation with specific bodies with responsibilities for the environment;
  3. taking all of this information into account before deciding whether to allow the project to proceed; and
  4. ensuring that the measures prescribed to avoid, reduce or compensate for environmental effects are implemented.

**Box**

**Key information**

B.1.5

In practice, the whole EIA process should be an iterative one (repeated until the best solution has been found), with sometimes complex links back to earlier steps and a continuous process of assessment and reassessment until the best environmental fit is achieved and/or environmental effects cannot be reduced further

- B.1.7 The process can be broken down into a series of stages and steps, which are reflected in the structure of the Handbook and summarised in Figure 1 below. Whilst the 4 main stages will normally follow consecutively, the steps within each stage could be undertaken concurrently or in a different order.
- B.1.8 As PAN 1/2013 (<http://www.scotland.gov.uk/Resource/0043/00432581.pdf> explains at paragraph 4.1:
- “Whilst the overall process may be subdivided into a number of steps, in practice the process rarely proceeds in a simple linear fashion. For example, early assessment may identify a significant adverse impact which can only be overcome by altering the project design, so the process reverts to the first step .....
- B.1.9 Not all of the steps in the process are actually required by law; some are a matter of good practice and common sense because without them the statutory requirements would not be fully realised.
- B.1.10 It should also be noted that EIA procedures apply to projects in the marine environment, the procedures are not confined to land based developments in the way that statutory planning procedures are.
- B.1.11 The whole process is described in more detail in the following sections of the Handbook and the statutory and non-statutory elements are distinguished. The EIA process sits alongside decision making procedures and requirements. It does not directly duplicate other procedures, although it can be very closely related to them. For example, the decision making procedures required for a project that is likely to have a significant effect on a Natura 2000 site (a European site) may use some of the information in an Environmental Statement, prepared under the EIA Regulations, in the appropriate assessment under Regulation 48 of the Conservation (Natural Habitats &c) Regulations 1994 <http://www.legislation.gov.uk/ukxi/1994/2716/contents/made> or Regulation 61 of the Conservation of Habitats and Species Regulations 2010 <http://www.legislation.gov.uk/ukxi/2010/490/contents/made> (together the Habitats Regulations) and subsequent amendments including those linked below. See Section E.2 of this Handbook and paragraphs 92 - 93 Circular 03/2011.
- B.1.12 Reference is made here to the various Annexes, Appendices and the Attachment at the end of this Handbook. To help illustrate and explain the EIA process, as it progresses through the Handbook, particular cross references are highlighted at the beginning of each Section.
- B.1.13 Amendments to the Habitats Regulations since 1994, referred to in paragraph B.1.11 above, include the following:
- the Conservation (Natural Habitats, &c.) Amendment (Scotland) Regulations 2004 (SSI 2004 No. 475)

- the Conservation (Natural Habitats, &c.) Amendment (Scotland) Regulations 2007 (SSI 2007 No. 80)
- the Conservation (Natural Habitats, &c.) Amendment No. 2 (Scotland) Regulations 2007 (SSI 2007 No. 349)
- The Conservation (Natural Habitats, &c.) Amendment Regulations 2007 (SI 2007 No.1843)
- the Environmental Impact Assessment and Natural Habitats (Extraction of Minerals by Marine Dredging) (Scotland) Regulations 2007 (SSI 2007 No. 485)
- the Transport and Works (Scotland) Act 2007 (Consequential and Transitional Provisions) Order 2007 (SSI 2007 No. 517)
- The Conservation (Natural Habitats, &c.) Amendment (Scotland) Regulations 2008 (SSI 2008 No. 17)
- the Conservation (Natural Habitats, &c.) Amendment No. 2 (Scotland) Regulations 2008 (SSI 2008 No. 425)
- Planning etc. (Scotland) Act 2006 (Development Planning) (saving, Transitional and Consequential Provisions) Order 2008 (SSI 2008 No 427)
- Marine and Coastal Access Act 2009 (No 23)
- Conservation (Natural Habitats, &c.) (Amendment) (No.2) Regulations 2009 (SSI 2009 No.2438)
- Public Services Reform (Scotland) Act 2010
- Wildlife and Natural Environment (Scotland) Act 2011
- Conservation (Natural Habitats &c.) Amendment (Scotland) Regulations 2011 (SSI 2011 No. 155)
- Marine Scotland Act 2010 (Transitional and Consequential Provisions) Order 2011 (No. 202)
- Conservation of Habitats and Species (Amendment) Regulations 2011 (SSI 2011 No. 625)
- Conservation (Natural Habitats &c.) Amendment (Scotland) Regulations 2012 (SSI 2012 No. 228)
- Pollution Prevention & Control (Scotland) Regulations 2012 (No. 360)
- Conservation of Habitats and Species (Amendment) Regulations 2012 (SSI 2012 No. 1927)

**Figure 1 Key Stages and Steps in the EIA Process**

Stage	Step
<b>Stage 1: Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2: Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3: Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4: Implementation</b> [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures



## B.2 The legislative background

[See Annexes 2 and 4]

### The EIA Regulations

- B.2.1 Annexe 2, Tables 1 - 3 of this Handbook list the current EIA legislation applicable in Scotland. It generally takes the form of “Statutory Instruments” (Regulations), which are made by the Scottish Ministers, the UK Parliament or the Secretaries of State. Although not “Acts of Parliament” they have much the same effect; they are statutory requirements. Failure to comply would render any case or decision open to challenge in the Court of Session, which means the decision could be quashed if it did not comply with the Regulations. Many of the important court cases and their implications are referred to in this Handbook (Annexe 7 below).
- B.2.2 These statutory instruments are designed to bring into legal effect in Scotland the requirements of the EC Directives on EIA<sup>2</sup> (references 3 and 4). These Directives have to be applied in Scottish domestic legislation in a way that is legally binding on proposers and decision makers (decision makers are referred to in the Directive and the Regulations and in this Handbook as “Competent Authorities”).
- B.2.3 The first Regulations appeared in 1988 with the Environmental Impact Assessment (Scotland) Regulations 1988 (reference 5). These were completely replaced by a new series of Regulations led by the Environmental Impact Assessment (Scotland) Regulations 1999<sup>3</sup> (reference 6). Part II of the EIASR 1999 has now been replaced (with the exception of regulation 47) by the EIASR 11 (abbreviated in this Handbook to ‘the principal regulations’, see A.1.9 above) covering the majority of developments likely to require EIA on land in Scotland. The remaining Parts III, IV and V of the EIASR 99 remain in force. The principal regulations take account of case law and further amendments to the Directive including changes made by Article 3 of Directive 2003/35/EC, known as the ‘Public Participation Directive’<sup>4</sup>, which aligns EIA requirements more closely with the provisions of the Aarhus Convention (reference 5). The principal regulations cover EIA requirements for projects which require planning permission in response to an application under the Town and Country Planning (Scotland) Act 1997, as amended by the Planning etc. (Scotland) Act 2006 (Part II of the principal regulations).
- B.2.4 Other Regulations cover a wide range of other project types and Annexe 2 Tables 1 – 3 below provide the full list.
- B.2.5 As noted in paragraph B.1.10 above, EIA procedures apply to projects in the marine environment. Consequently, there are important implications, for example, for marine fish farming, port and harbour developments, off shore dredging and wind farms and works requiring Marine Licences under the Marine (Scotland) Act 2010 (see Annexe 2 Tables 2 and 3).
- B.2.6 The Directives (references 3 & 4) link EIA to the consent procedure and therefore imply that all projects subject to EIA should require consent from a statutory authority before they can proceed. Since most of the project types listed in Annex I and Annex II of the Directive already required some kind of consent under UK law the Government was generally able to implement the Directive by introducing sets of Regulations modifying existing legislation and procedures. Occasionally, however, it has been necessary to introduce new consenting procedures to meet the requirements of the Directives, for example, the control of the intensive use for agriculture of uncultivated land and semi- natural areas (see section B.5 below).
- B.2.7 In addition to the suite of statutory Regulations, there are three other ways in which EIA may be required:

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<sup>2</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:1985L0337:20030625:EN:PDF>

<sup>3</sup> <http://www.legislation.gov.uk/ssi/1999/1/contents/made>

<sup>4</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32003L0035:EN:HTML>

1. The order making procedures under the provisions of the Transport and Works (Scotland) Act 2007 e.g. for major new infrastructure projects such as railways, tramways or bridges.
2. Parliamentary Standing Orders (Chapter 9A) governing the procedures by which Private Bills for major development projects pass through the Scottish Parliament.
3. By a Secretary of State or the Scottish Ministers introducing non statutory guidance or procedures for development carried out by a Government Department or projects that may require the consent of a Secretary of State or the Scottish Ministers but which are not specified in the Regulations.

## Changes to the Regulations

- B.2.8 Changes in EIA legislation relating to development are facilitated by Section 2(2) of the European Communities Act 1972 and Section 40 of the Town and Country Planning (Scotland) Act 1997, empowering the Scottish Ministers to introduce further EIA Regulations, generally. These powers include the introduction of provisions different to the EIA Directives. As the Scottish Ministers could not make the Regulations less rigorous than the Directives, it follows that the power must have been introduced to enable a stricter regime than that directed by the EC, if the Scottish Ministers so wish.
- B.2.9 The principal regulations introduced a number of changes related to
- presentation of decisions by the planning authority or the Scottish Ministers that an EIA is not required;
  - applying assessment requirements to modifications and extensions of both Schedule 1 and Schedule 2 projects; and
  - applying assessment requirements to multi-stage consents.
- B.2.10 In respect of the last bullet point, some Member States previously took the view that only modifications to projects in Annex I were subject to EIA. However, the Courts held that modifications to Annex II projects, as well as Annex I projects, require EIA where they are likely to have significant environmental effects. European Court of Justice, *Aannemersbedrijf PK Kraaijeveld BV versus Gedeputeerde Staten van Zuid- Holland* (October 24 1996). A subsequent case, *Baker v Bath and North East Somerset Council*, 19th February 2009, had further implications for the interpretation of Schedule II thresholds for applications concerning changes or extensions to projects. The High Court in that case held that when applying the thresholds to applications for changes or extensions to projects it is not sufficient to only consider the change or extension itself; it is the development as modified or extended as a whole which must be considered. The principal regulations now reflect the position set out by the High Court.
- B.2.11 The EIA process is also influenced by the provisions for access to environmental information ([reference 8]) and the Town and Country Planning (Electronic Communications) (Scotland) Order 2004<sup>5</sup> (see also Circular 3/2004<sup>6</sup> and PAN 70<sup>7</sup> as amended by Data Protection Guidance for Planning Authorities published on 7 August 2013 (references [9 and 10])).

<sup>5</sup> <http://www.legislation.gov.uk/ssi/2004/332/contents/made>

<sup>6</sup> <http://www.scotland.gov.uk/Resource/Doc/47060/0026294.pdf>

<sup>7</sup> <http://www.scotland.gov.uk/Resource/Doc/245535/0069199.pdf>

## B.3 The projects that are subject to EIA

[See Annexe 4]

### Statutory EIA: The General Principles

- B.3.1 The Directive and Regulations relate to “certain public and private projects”, generally those which require some form of licence, permission, consent or other authorisation before they can proceed.
- B.3.2 Whether a project must be subject to the EIA process in Scotland depends entirely on whether it is of a kind described in the Regulations issued by the Scottish Government to ensure compliance with the EC Directives on EIA, as described in section B.2 above. Projects which are subject to the EIA process are of two kinds:
- those which are of a type of project that must always be subject to EIA, for example nuclear power stations, referred to as Schedule 1 development (or projects) because they are listed in Schedule 1 of the principal regulations. Schedule 1 is based on Annex I of the Directive, so sometimes Schedule 1 projects may be referred to as ‘Annex 1’ projects, and
  - those which may be subject to EIA if they are of a kind listed in Schedule 2 of the principal regulations (Annex II of the Directive), for example, a proposed urban development project.

If the proposal is of a type listed in Schedule 2 of the principal regulations and meets one of the relevant criteria, or exceeds one of the relevant thresholds, listed in Schedule 2 of the principal regulations, or is wholly or partly located in a sensitive area (see section B.4 below) it is referred to as Schedule 2 development and it must be ‘screened’ to see whether it is, therefore, likely to have significant effects on the environment. If it is, it must be subject to EIA and is referred to, along with all Schedule 1 development, as EIA development (see B.4, C.1 and Annexe 4 of this Handbook).

- B.3.3 EIA development is development that must be subject to the EIA process because either it is a Schedule 1 project, or it is a Schedule 2 project likely to have significant effects on the environment, for example because it meets one of the relevant criteria or exceeds one of the thresholds in Schedule 2 of the principal regulations<sup>8</sup> or it is in a sensitive location and it is likely to have significant environmental effects.
- B.3.4 The Scottish Government Circular 3/2011<sup>9</sup> provides advice in respect of determining whether a project of a kind listed in Schedule 2 is likely to have significant effects on the environment, including the publication of checklists to assist in that determination (see paragraphs 36 - 57 and Annexes A and B of Circular 3/2011 and Annexe 4 of this Handbook).
- B.3.5 Since the removal of Crown immunity from planning control, from 12th June 2006, the Crown is now required to obtain planning permission for its development and the provisions of the EIA Regulations apply accordingly.
- B.3.6 The Scottish Ministers have the power, in exceptional cases, to direct that any particular project, or type of project, that would otherwise require EIA, is exempt from the requirement in accordance with article 2(3) of the Directive. Further guidance on the application of article 2(3) is available at [http://ec.europa.eu/environment/eia/pdf/eia\\_art2\\_3.pdf](http://ec.europa.eu/environment/eia/pdf/eia_art2_3.pdf)

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<sup>8</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

<sup>9</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

Box  
B.3.1

### Projects requiring EIA

All projects of the kinds listed in Schedule 1 of the principal regulations must be subject to EIA, in every case.

Projects of a kind listed in Schedule 2 of the principal regulations may need to be subject to EIA if the project meets one of the criteria or exceeds one of the thresholds listed in the second column of the Table in Schedule 2, or is wholly or partly located in a sensitive area and is likely to have significant effects on the environment.

The Scottish Government has provided guidance in Circulars, including checklists about the nature, scale and location of Schedule 2 projects and their effects, which should be taken into account when assessing whether a particular project is likely to have significant effects. Even if a project exceeds the thresholds or meets the criteria in the principal regulations, if it would not be likely to have significant effects on the environment it will not need to be subject to EIA.

On the other hand, the advice in Circular 3/2011, indicates that a project may be regarded as EIA development if it is a Schedule 2 project even if it does not meet a criterion, or exceed a threshold, in the Table in Schedule 2, if it would be likely to have significant effects on the environment, by virtue of factors such as its size, nature or location, for example, if it is located close to, but not necessarily within a sensitive area. Under these circumstances it is open to Scottish Ministers to direct that such development is 'EIA Development'.

Modifications and extensions to Schedule 1 and 2 projects could also require EIA if the project, as modified or extended, would be likely to have significant effects on the environment.

See further the commentary in section B.4 below.

### Voluntary EIA

- B.3.7 The advantages of EIA are increasingly recognised by proposers, some of whom believe that an Environmental Statement can help to obtain consent more quickly, especially where they consider the project to be environmentally benign. Increasingly, proposers are submitting Environmental Statements without seeking a screening opinion, and sometimes without seeking a scoping opinion, because they accept that a Statement will be required and wish to expedite the process.
- B.3.8 An Environmental Statement may, therefore, be submitted voluntarily. That is, the project would not actually be required to go through the EIA process, because it is not EIA development.
- B.3.9 It should be noted that if a proposer submits a document referred to as an Environmental Statement for the purposes of the principal regulations, the planning authority is required by Regulation 5(2)(a) of the principal regulations to treat it as an environmental statement, and the proposal as EIA development, even if it may not be (see further paragraphs 61-63 of Circular 3/2011 (reference 1)). Exceptionally, the planning authority may apply to the Scottish Ministers for a direction that the proposal is not EIA development if it is clearly not one to which the regulations apply, and processing the statement would be inappropriate (see last sentence paragraph 62 and paragraph 89 Circular 3/2011). A further scenario, therefore, is where a proposer submits an 'environmental report', or a similar document, which is not intended to be a formal Environmental Statement, subject to the Regulations, but nevertheless contains equivalent environmental information, to inform and influence the decision for cases which are not subject to the Regulations.

## Parliamentary Private Bill Procedures

- B.3.10 Article 1.5 of the Directive, and the principal regulations, indicate that they do not apply to projects authorised or adopted by a specific Act of national legislation, such as Private Bills. There is a limited number of cases of these procedures in Scotland, mainly those relating to the Stirling/Alloa/Kinross Railway, the Waverley Line and the two Edinburgh Tram Lines. However, in each case an Environmental Statement was prepared, even though the full EIA procedure is not required. However, the Transport and Works (Scotland) Act 2007, at <http://www.legislation.gov.uk/asp/2007/8/contents> enables approval for certain transport projects to be achieved through Ministerial order, replacing the use of Private Bills to authorise transport projects and effectively invoking procedures required by the EIA Directive and Scottish Regulations.

## B.4 Criteria for deciding whether EIA is required

[See B.3, C.1 Annexe 4]

### Introduction

- B.4.1 Every Competent Authority has a duty to consider whether an application for any kind of consent that it receives for consideration is an application which should be subject to EIA (e.g. Reg 8 in the principal regulations<sup>10</sup>). If it is a Schedule 1 project EIA will always apply, unless it is 'exempt development' (see C.1.5 below for the definition of 'exempt development' and B.4.2 below for the definition of 'Schedule 1 development'). For other projects a two stage test is needed to determine whether EIA will apply.
- A] Firstly, is the project a Schedule 2 project within the relevant criteria and thresholds in Schedule 2 of the Regulations, OR is the project located wholly or partly in a 'sensitive area' as defined in the Regulations; and if so
  - B] Secondly, is it a Schedule 2 project likely to have significant effects on the environment by virtue of factors such as its nature, size or location (taking account, amongst other things of the checklists in Annex B of Circular 3/2011)?
- B.4.2 "Schedule 1 development" means "development, other than exempt development, of a description mentioned in Schedule 1 of the principal regulations";
- "Schedule 2 development" means "development, other than exempt development, of a description mentioned in Column 1 of the table in Schedule 2 where -
- a] any part of that development is to be carried out in a sensitive area; or
  - b] any applicable threshold or criterion in the corresponding part of Column 2 of that table is respectively exceeded or met in relation to that development"  
(Reg 2 of the principal regulations)
- B.4.3 A "sensitive area" is defined in Regulation 2(1) (see paragraph B.4.19 below). It is stressed that development in a sensitive area should only be considered to be Schedule 2 development if it falls within a description in Schedule 2 (see [Annexe 4](#) of this handbook).

### Determining Whether an EIA is Necessary

- B.4.4 Generally, it will fall to Competent Authorities in the first instance to consider whether a proposed development requires EIA.
- B.4.5 Development outwith a sensitive area falling below the thresholds or meeting none of the criteria in the second column of the table in Schedule 2 does not normally require EIA and the authority need not adopt a screening opinion. In effect, the principal regulations have already provided a negative screening opinion. However, there may be circumstances in which such small developments might give rise to significant environmental effects. In those exceptional cases Scottish Ministers can use their powers under regulation 5(11) of principal regulations to direct that EIA is required, even though it does not meet these thresholds and criteria.
- B.4.6 The use of the equivalent English power was considered by the High Court in *Threadneedle Property Investments Ltd v Southwark LBC*. The case concerned a challenge to the Secretary of State's failure to consider using the power when deciding whether or not to call-in the application for his determination. A letter submitted to the Secretary of State on behalf of the claimants requested that the Secretary of State use the power if he decided to call-in the

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<sup>10</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

application. The court stated that the power must be seen as an exceptional power in that it would only be used in an exceptional case. The court held that there was only a requirement to consider the use of the power upon receipt of an express request, bringing to the Secretary of State's attention a particular feature of the development that is said to be likely to have a significant effect on the environment. It is therefore not anticipated that this power will be used often.

- B.4.7 It is emphasised that decisions need to be taken on a case-by-case basis. The application of the checklists in Annex B of Circular 3/2011 will not necessarily produce a determinative answer. Individual projects that fall below the applicable thresholds and do not meet the criteria in the principal regulations may require EIA. The important thing is to consider whether the proposed development is likely to have significant environmental effects and to be clear about the reasons for the decision. Consequently it is prudent for project proposers to seek a screening opinion from the competent authority or to at least discuss the possible need for EIA at an early stage.
- B.4.8 In legal proceedings, domestic courts must take account of judgements of the European Court of Justice (ECJ). So far as the EIA Directive is concerned the ECJ has consistently held that in its application it is to be interpreted as having a “wide scope and broad purpose” (Kraaijveld (Dutch Dykes) Case C-72/95). This has implications for Planning and other Competent Authorities when they are screening for EIA.
- B.4.9 The wording of the EIA Directive should be interpreted widely. The fact that a particular type of development is not listed specifically within one of the categories of projects in the Directive, or the principal regulations, does not imply that it is exempt. The categories of projects are illustrative, not exhaustive. They should be read in a way that favours the application of the Directive, rather than avoiding its effects; project types similar to those listed should be considered for assessment. Particular care is needed when considering development that could fall within the categories of “industrial estate development” and “urban development projects” listed under ‘Infrastructure’ projects (Schedule 2.10 projects). The European Commission has published guidance on their interpretation of project categories in the EIA Directive which can be consulted.<sup>11</sup>
- B.4.10 An example of how the ‘wide scope and broad purpose’ applies is found in the Court of Appeal judgment relating to a planning proposal by the Big Yellow Property Company Ltd to construct a storage and distribution facility (Goodman and another v Lewisham London Borough Council). The planning authority took the view that as such development was not specifically described in either the Directive or EIASR 99 in force at the time, there was no need to consider EIA. Following legal challenge, the Court of Appeal decided that:
- “In this instance “infrastructure” goes wider, indeed far wider, than the normal understanding, as quoted from the Shorter English Dictionary, of “the installations and services (power stations, sewers, roads, housing etc.) regarded as the economic foundations of a country”.
- It held that the decision that the proposal was outside the reach of Schedule 2.10(b) of the EIASR 99 and was outside the range of reasonableness that was open to the planning authority. The planning permission was quashed and the application remitted to the planning authority for reconsideration. The wording of Schedule 2.10 has not been changed in the principal regulations and so this decision is still authoritative.
- B.4.11 Thus, the Directive is not open to narrow interpretation. The UK Courts will interpret the Directive in the European sense - i.e. as having wide scope and broad purpose. It should not be assumed that a project is excluded simply because it is not expressly mentioned in either the Directive or the principal regulations. As noted above, the categories of development in Schedule 1 and Schedule 2 will be interpreted widely to achieve the objectives of the Directive and ensure that projects which are likely to have significant effects on the environment are subject to EIA. For example, neither the Directive nor the principal regulations refer

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<sup>11</sup> [http://ec.europa.eu/environment/eia/pdf/interpretation\\_eia.pdf](http://ec.europa.eu/environment/eia/pdf/interpretation_eia.pdf)

specifically to “housing development”. But it would be a mistake to consider that housing development does not fall within the ambit of “urban development projects”.

- B.4.12 There are examples of how this approach to interpreting the categories of development operates in practice, from both the ECJ and the domestic courts. In *European Commission v Ireland* (Case C-50/09), concerning whether Ireland had correctly transposed the EIA Directive by excluding demolition works from the scope of its domestic EIA legislation, the ECJ decided that the annexes to the Directive describe sectoral categories of development rather than describing the precise nature of projects. It was stated that demolition works can constitute a project within the terms of the legislation and, as an example, it was noted that “urban development projects” often include demolition works. It was held that Ireland had therefore failed to correctly transpose the Directive. This case was followed by the High Court in a challenge by *Save Britain’s Heritage* (March 2011) to a decision that demolition was not development requiring planning permission in which they also sought a declaration that demolition was capable of constituting a project falling within the scope of the Directive. The court granted the declaration and commented that “if it is accepted that works are capable of having significant effects on the environment, the definition of “project”...should, if possible, be construed so as to include, rather than exclude, such works”. Moreover, projects can be described in different ways so it is important to consider carefully the scope and purpose of the project - not just its label. A proposal to create a new “Employment and Enterprise Opportunity Facility” may simply be another way of describing an industrial estate development. In light of the case law, it will also be important to consider the impacts of the development; if it is likely to have significant effects on the environment then the descriptions of development should, to the extent that it is possible, be construed so as to include the development under consideration.

### **Changes or extensions to Schedule 1 or Schedule 2 developments**

- B.4.13 Modifications or extensions to Schedule 1 or Schedule 2 developments, which are existing or have an outstanding consent, also fall within the scope of the principal regulations where the change or extension itself would fall within one of the descriptions in Schedule 1 or Schedule 2.
- B.4.14 The criteria and thresholds in the second column of the table in Schedule 2 apply equally to changes or extensions to relevant development as they do to new development. Paragraph 13 of Schedule 2 provides that, in such cases, the thresholds and criteria are to be applied to the development as changed or extended and not solely to the change or extension itself.

### **The need for EIA for Schedule 2 development - general considerations**

- B.4.15 The Competent Authority must screen every application for Schedule 2 development in order to determine whether or not EIA is required. This determination is referred to as a “screening opinion”. In each case, the basic question to be asked is: “would this particular development be likely to have significant effects on the environment?” Section C.1 provides guidance on the screening process and related procedures. It should be read in conjunction with this section.
- B.4.16 Because both the Directive and the principal regulations refer to a project’s ‘nature, size or location’, this implies that EIA may be required by just one of these factors. That certain types of development can have significant effects, irrespective of their location is evidenced by the mandatory requirements for EIA of all Schedule 1 projects, regardless of their location. Similarly whilst there is no corresponding list of locations for which EIA is mandatory, regardless of the type of development, there must be a presumption that certain locations are of such a type that EIA will be required for any development there. For most types of development, it will be necessary to consider the characteristics of the proposal along with its proposed location, in order to adequately understand the interactions between the project and its location, and thereby determine if the effects on the environment are likely to be significant.
- B.4.17 Thus, Schedule 3 of the principal regulations (see [Annexe 4](#) to this Handbook) sets out the ‘selection criteria’ which must be taken into account in determining whether a proposal is likely to have significant effects on the environment. It identifies three broad criteria which should



be considered: the characteristics of the proposal (e.g. its size, use of natural resources, quantities of pollution and waste generated); the environmental sensitivity of the location; and, the characteristics of the potential impact (e.g. its magnitude and duration).

- B.4.18 The number of cases of such development will be a very small proportion of the total number of Schedule 2 developments. It is again emphasised that the basic test of the need for EIA in a particular case is the likelihood of significant effects on the environment. It should not be assumed, for example, that conformity with a development plan rules out the need for EIA. Nor is the amount of opposition or controversy to which a proposal gives rise relevant to this determination, unless the substance of the objectors' arguments reveals that there are likely to be significant effects on the environment

### Large scale developments

- B.4.19 In some cases, the scale of a proposal can be sufficient for it to have wide-ranging environmental effects that would justify EIA. There will be some overlap between the circumstances in which EIA is required because of the scale of the proposal and those in which Scottish Ministers may wish to exercise their power to "call in" an application for their own determination (see Circular 3/2009<sup>12</sup>). However, there is no presumption that all called in applications require EIA, or that all EIA applications will be called in.

### Development in environmentally sensitive locations

- B.4.20 The more environmentally sensitive the location, the more likely it is that the effects of a project will be significant and will require EIA. Certain designated sites are defined in regulation 2(1) of the principal regulations as 'sensitive areas' and the thresholds/criteria in the second column of Schedule 2 do not apply there.

#### Box

#### Key information

B.4.1

All developments listed in Schedule 2 that may be located in the sensitive areas listed in Regulation 2(1) and below must be screened for the need for EIA whether or not they meet the criteria or exceed the thresholds in Schedule 2. These are:

- Sites of Special Scientific Interest
- Land to which Nature Conservation Orders apply
- Internationally designated nature conservation sites (SPAs, SACs and Ramsar Sites)
- National Scenic Areas
- World Heritage Sites
- National Parks
- Scheduled Monuments

(Note: Historic Gardens and Designed Landscapes are not listed and do not trigger the need for EIA in this way.)

- B.4.21 In certain cases other statutory and non-statutory designations which are not included in the definition of 'sensitive areas' may also be relevant in determining whether EIA is required. Circular 3/2011 at paragraph 48 indicates that, where relevant, Local Biodiversity Action Plans will be of assistance in determining the sensitivity of a location. Urban locations may also be considered sensitive as a result of their heavier concentrations of population.
- B.4.22 Where statutory designations other than European or Ramsar sites are involved, including National Parks, SSSI, NNRs and NSAs, EIA will be appropriate where the particular natural heritage interest of the area would be likely to be significantly affected. Elsewhere, in the

<sup>12</sup> <http://www.scotland.gov.uk/Resource/Doc/265803/0079583.pdf>

wider countryside it would be less likely that an Environmental Statement would be required on the grounds of the sensitivity of the location. However, the scale or nature of the proposal may be such as to require EIA, particularly if a major project is close to a human settlement.

- B.4.23 In considering the sensitivity of a particular location, regard should also be had to whether any national or internationally agreed environmental standards are already being approached or exceeded. Examples include air quality, drinking water and bathing water. Where there are local standards for other aspects of the environment, consideration should be given to whether the proposed development would affect these standards or levels.

### **Development with particularly complex and potentially hazardous effects**

- B.4.24 A small number of developments may be likely to have significant effects on the environment because of the particular nature of their impact. Consideration should be given to development which could have complex, long-term, or irreversible impacts, and where expert and detailed analysis of those impacts would be desirable and would be relevant to the issue of whether or not the proposal should be allowed. Industrial development involving emissions which are potentially hazardous to humans or the natural environment may fall into this category.

### **Checklists in Circular 3/2011<sup>13</sup>**

- B.4.25 Circular 3/2011, at paragraph 41 encourages Competent Authorities to use checklists, either of their own design or otherwise, in order to assist in the determination of whether proposals would be likely to have significant environmental effects. [The European Commission has published such checklists at <http://ec.europa.eu/environment/eia/eia-guidelines/g-screening-full-text.pdf> comprising a series of questions related to each of the selection. Most Competent Authorities will find the checklist in the Circular itself, at Annex B, will be adequate, but may adapt it to suit local circumstances. Paragraph 42 of the Circular describes the advantages of using checklists as screening aids especially by providing evidence of a transparent, consistent and systematic record of screening decisions.

### **Applying the guidance to individual developments**

- B.4.26 In judging whether the effects of a proposal are likely to be significant, Competent Authorities should always have regard to the possible cumulative effects with any existing or approved development. There are occasions where the existence of other development may be particularly relevant in determining whether significant effects are likely. Similarly, there may be cases where applications for development should be considered jointly to determine whether or not EIA is required. see further advice on cumulative effects in paragraph 56, Circular 3/2011, SPP and PAN 45.
- B.4.27 What constitutes a cumulative effect, as well as an indirect and secondary effect, is a question of fact and judgement, subject to review on public law Wednesbury grounds (the legal basis on which a decision in the public sector is tested for irrationality or perversity) (Bowen-West v Secretary of State for Communities and Local Government (January 2012)).
- B.4.28 The issue of cumulative effects was considered in *Brown v Carlisle City Council* (May 2010). In that case there was a first application for airport works and a freight distribution centre which was accompanied by an ES. However, this was withdrawn when the application was called-in by the Secretary of State. A second application did follow for a scaled down development including the freight distribution centre but most of the revised airport works were to be carried out under permitted development rights. The ES which accompanied this application only dealt with the freight distribution centre. Permission was granted and a section 106 agreement (the English equivalent of a section 75 agreement) was put in place which effectively ensured that the freight distribution centre could not lawfully be developed in

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<sup>13</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

isolation but only if it was developed in conjunction with the airport works. Again, it was stated that what constitutes a cumulative effect will be a question of fact in each case and developments may have cumulative effects despite no functional link between them. In this case, the court decided that the granting of the permission without considering the environmental effects of the airport works was unlawful. The court considered whether to exercise discretion not to quash the permission even though the decision was flawed. The court ruled that the underlying purpose of the EIA Directive is that the environmental effects of a development, including any cumulative effects, are considered at the earliest possible stage in the consenting process. An assurance that they will be assessed subsequently when determining future applications will not, except in very exceptional circumstances, be a sufficient justification for the courts declining to quash a permission.

- B.4.29 It will therefore be important to determine the scope of the works that will be covered in the ES and be considered as part of the assessment of cumulative effects in the EIA. As part of doing this, it will be necessary to look beyond the works that are applied for and to consider whether there are any other works that are required to facilitate the works applied for. Careful consideration will also have to be given to ensure that the cumulative effects of any relevant development which is permitted development are taken into consideration as part of the EIA, particularly as they will not be subject to a separate decision making process and EIA.

### Multiple applications

- B.4.30 For the purposes of determining whether EIA is required, a particular application should not be considered in isolation if, in reality, it is properly to be regarded as an integral part of an ultimately more substantial development *R v Swale BC ex parte RSPB 1991*. In such cases, the need for EIA must be considered in respect of the total development. This is not to say that all applications that form part of some wider scheme must be considered together.

- B.4.31 The High Court has recently provided some guidance on the approach to be taken in another *Save Britain's Heritage* case (July 2013). They held that:

"If it can be seen that the smaller project under consideration, although harmless in itself, will lead to a larger development which may have significant effects on the environment it is necessary to take the effects of the larger development into account so as to avoid a situation in which by a series of small developments which fall under the radar the larger development comes about without an opportunity to subject it to EIA".

- B.4.32 A similar issue has also been considered by the ECJ in relation to transboundary projects. Where the part of the project located in a particular Member State is less than the threshold for that category but the project as a whole is greater than that threshold, that Member State must subject the part of the project located in their country to the EIA procedure (Karnten C-205/08).

- B.4.33 In *Burridge v Breckland DC* (April 2013), the Court of Appeal considered an appeal against a High Court judgement which had ruled that a biomass development and combined heat and power plant which were to be connected by a 1 km underground pipe were not sufficiently linked to constitute a single project for the purposes of EIA. Both applications were considered at the same committee meeting. The Court of Appeal stated that the two applications were not to be treated separately simply because there were two separate applications as the Directive refers to "projects" and it is well established that it is not permissible to frustrate the aims of the Directive by splitting projects to fall below the prescribed thresholds (salami-slicing). It was decided that the two applications were to be regarded as a single development/project as they were functionally interdependent and the combined heat and power plant was integral to the biomass development. The judges were keen to stress the relevance of the fact that both applications were being considered at the same time, possibly in light of earlier judgements that had said that you couldn't look at development contemplated beyond that applied for when carrying out screening.

B.4.34 The decision in *Burridge* has some similarities to the interpretation suggested by the EC in relation to the application of the EIA Directive to associated/ancillary works<sup>14</sup> where they are not Annex I or Annex II development in their own right but the main element of the development is. The EC suggest considering whether the associated/ancillary works are integral or inextricably linked to the main works on a "centre of gravity test"; to consider whether the associated/ancillary works are central or peripheral to the main works and, to what extent they are likely to predetermine the EIA process for the main works. If the associated/ancillary works are integral or inextricably linked to the main works then the EC suggests that it would be a breach of the Directive to consent those works before carrying out an EIA for the whole project. It should be noted that this suggested interpretation has not been endorsed by the courts.

B.4.35 In this context, it will be important to establish whether a development under consideration is actually part of a wider project and, if so, whether it is an integral part of that wider project. If it is an integral part of a wider project then the screening assessment should be based on the wider project; this is likely to be a question of fact and degree in each case and an important consideration in this will be whether the aims of the Regulations and Directive are being frustrated by the submission of multiple or sub-divided applications.. It should be noted that, due to the fact both applications were before the planning authority, the court in *Burridge* was keen to distinguish that case from earlier decisions which had suggested you couldn't look beyond the development applied for. This suggests that future stages of a project do not necessarily need to be considered at screening; it is likely there would need to be sufficiently precise details of the future development to allow the assessment required for screening.

#### Box

B.4.2

Competent Authorities should press a proposer to submit a complete project and complete Environmental Statement to ensure that the aims of the principal regulations and Directive are not being frustrated by the submission of separate applications, the key test being whether the proposed project could proceed and fully operate as submitted

#### Key advice

### Changes or extensions to existing or approved development

B.4.36 Development which comprises a modification or extension to Schedule 1 or 2 development requires EIA if the development as a whole, once modified or extended is likely to have significant environmental effects. Guidance on this is contained in Circular 3/2011. In some cases, repeated small extensions may be made to development. Quantified thresholds cannot easily deal with this kind of 'incremental' development. An expansion of the same size as a previous expansion will not automatically lead to the same determination on the need for EIA because the environment may have altered since the question was last addressed.

B.4.37 Competent Authorities are encouraged in the Circulars to consult other bodies, where relevant, when deciding whether the effects of a proposal are likely to be significant and to take any views expressed into account. Although paragraph 65 of Circular 3/2011 indicates that it would be exceptional to consult the consultation bodies at screening stage, the Scottish Ministers and other Competent Authorities often do seek the advice of these bodies before making a screening decision.

### Applications for Outline Planning Permissions and Planning Permission in Principle

B.4.38 See [section D.11](#) below, in respect of outline planning applications and approvals of reserved matters, and for planning permissions in principle and matters to be approved under conditions.

<sup>14</sup> <http://ec.europa.eu/environment/eia/pdf/Note%20-%20Interpretation%20of%20Directive%2085-337-EEC.pdf>

## The Degree of Confidence in Predicting Likely Significant Effects

- B.4.39 The EIA Directive requires, amongst other things, firstly, that Competent Authorities decide whether EIA procedures apply to particular projects, a decision which in part is based on the likely significant effects on the environment; and secondly, to take into account the effects before granting permission. At the first stage, the responsibility is to consider whether the project is likely to have a significant effect on the environment. This calls for the exercise of professional judgement taking into account factors such as nature, scale and location of the project (see Schedule 3 of the EIA principal regulations), knowledge of the local area and its environment and evaluation of such information as it is reasonable to expect the applicant to provide at this stage. The courts have held that this is essentially a judgement for planning decision-makers and is not the kind of judgement the court will undo "unless it is shown to have been outside the range of a reasonable decision on the relevant facts", on a public law *Wednesbury* basis (*Catt v Brighton and Hove city Council*, April 2013). But the amount of information necessary at this stage does not mean you need to have "full knowledge" of every environmental effect. Only if it is decided that EIA is required, will full and detailed knowledge of the project's likely significant effects be required.
- B.4.40 A helpful judgment in this respect is that of *Regina oao Jones v Mansfield DC* where the judge held that in general a lesser degree of information is needed at the first stage of deciding whether EIA is required at all than at the second stage where it is necessary to provide the information. He commented that
- "It is for the authority to judge whether a development would be likely to have significant effects. The authority must make an informed judgement, on the basis of the information available and to any gaps in that information and to any uncertainties that may exist, as to the likelihood of significant effects. The gaps and uncertainties may or may not make it impossible to reasonably conclude that there is no likelihood of significant environmental effects. Everything depends upon the circumstances of the individual case".
- B.4.41 The judgment also noted that:
- "Whether sufficient information is available to enable a judgement to be made as to the likelihood of significant environmental effects is a matter for the authority, subject to review by the court on *Wednesbury* principles".
- B.4.42 Case law has also clarified that decision makers must also have regard to the precautionary principle when reaching screening decisions. In *R (on the application of Loader v Secretary of State for Communities and Local Government)* (June 2012), the Court of Appeal stated:
- "The decision maker must have regard to the precautionary principle and to the degree of uncertainty, as to environmental impact, at the date of the decision. Depending on the information available, the decision maker may or may not be able to make a judgment as to the likelihood of significant effects on the environment. There may be cases where the uncertainties are such that a negative decision cannot be taken."
- There may therefore be occasions when there is insufficient information for a decision maker to reach a conclusion that a Schedule 2 development will not have a significant effect on the environment, in which case it should be subject to EIA. As put by the High Court in *R (on the application of Cooperative Group Ltd v Northumberland CC)* (March 2010):
- "In order to adopt a negative screening opinion... the LPA must have sufficient information about the project to be able to make an informed judgment as to whether it is likely to have a significant impact on the environment" and "it is not permissible to decide to adopt a negative screening opinion on the basis that information as to environmental effects will be provided in the future
- B.4.43 Paragraph 65 of Circular 3/2011 also says:
- "Authorities should bear in mind that what is in question at this stage is the broad significance

of the likely environmental effects of the proposal. This should not require as much information as would be expected to support a planning application.”

### **Can the decision whether to require EIA take account of conditions, agreements and mitigation measures that could ensure that likely significant effects were rendered unlikely or insignificant?**

- B.4.44 Paragraph 54 of Circular 3/2011 says that the extent to which the efficacy of proposed remediation (or other counteracting measures) may be taken into account for screening purposes depends on the facts of each case. Some measures may be so well established that they have become routine and need not be discounted when considering the likelihood of significant effects. In a case of any complexity, however, it should not be assumed that the measures would be successfully implemented.
- B.4.45 Conditions can still be used in granting permission to EIA development, but planning authorities need to exercise care and judgement to ensure that conditions designed to mitigate the likely effects of a proposed development are not used as a substitute for EIA or to circumvent the requirements of the EIA Directive. It is useful to refer to what is now a substantial body of case law. When considering whether conditions and mitigation can be taken into account for the purposes of screening under EIA, the courts will regularly look at cases on the same point under the Habitats Regulations, and vice versa (see *Feeney v Secretary of State for Transport* (May 2013) for example). Cases under the Habitats Regulations are therefore equally relevant on this issue (see [B.8](#) below and [Figure 2](#)).
- B.4.46 *Regina oao Lebus v South Cambridgeshire DC* involved development for an egg production unit to house 12,000 free range chickens. A local resident had written to the planning authority in 2000 suggesting that EIA was required for this development. After a meeting and discussion with the applicant, the planning officers dealing with the case took the view that this was not EIA development and the applicant was told informally that EIA was not required. The planning officer dealing with the case made no written record of his conclusions. At the meeting the officers concluded that the potential adverse impacts of the development would be insignificant with proper conditions and management enforceable under a section 106 planning obligation (equivalent to a S.75 Planning Agreement in Scotland). Planning permission was granted subject to conditions in 2002. The resident challenged the decision by judicial review.
- B.4.47 The Court allowed the appeal and quashed the planning permission. So far as planning conditions and EIA are concerned it held
- “it is not appropriate for a person charged with making a screening decision to start from the premise that although there may be significant impacts, these can be reduced to insignificance by the application of conditions of various kinds. The appropriate course in such a case is to require an environmental statement and the measures which it is said will reduce their significance”.
- B.4.48 The message from *Lebus* is that where proposed development is EIA development the use of conditions cannot be used to substitute for the proper assessment procedure. To do so would simply negate the purposes of the Directive. It is also clear from this case that planning authority staff need to make formal screening opinions on Schedule 2 applications.
- B.4.49 The question of planning conditions was also considered in *Gillespie v First Secretary of State and Bellway Urban Renewal*. In this case the First Secretary of State granted planning permission for a housing development on the site of a former gas works. One of the former gasholders was still in situ. Soil surveys on the site had been carried out and revealed contamination but the type and extent was not fully known, particularly of that below the gasholder. The First Secretary of State, however, considered that there was no need for an EIA. He permitted the development subject to conditions to carry out a detailed site examination to establish the nature, extent and degree of the site contamination and to remedy it prior to commencement of the development. The remediation strategy would rely upon tried and tested methods so there was no reason to assume they would be unsuccessful

in removing the contamination.

- B.4.50 In quashing the First Secretary of State's decision, the Court of Appeal held that on considering whether an environmental impact assessment was required before planning permission could be granted the First Secretary of State did not have to ignore proposed remediation measures, but neither could he assume that, in a case of any complexity, they would be successfully implemented. The extent to which such measures could be taken into account in screening decisions would depend on the facts of each individual development having regard to:
- a) The extent of the investigation into the impact of the development and environmental problems arising from it, up to the time of the screening decision;
  - b) The nature of the proposed remedial measures including uncertainties;
  - c) The extent to which those have been particularised;
  - d) Their complexity;
  - e) The prospects of their successful implementation;
  - f) The prospect of adverse environmental effects in the course of the development, even if of a temporary nature; and
  - g) The final effect of the development.
- B.4.51 Gillespie indicates that remediation measures need not be ignored when making decisions about the likely significant effects of proposed development. But care and judgement has to be exercised. Remedial measures that are well-established and uncontroversial, e.g. cleaning wheels of lorries and covering their loads to minimise dust, etc., may well be taken into account. In more complex development, and/or where the nature of the proposed remediation measures is likely to be more complex and possibly less clearly established, it may be less appropriate to take the proposed measures into account. It is important that the offer of remediation measures is not used to frustrate the purpose of the EIA directive or serve as a surrogate for it.
- B.4.52 The courts have stated that the judgement as to the effectiveness of mitigation / remedial measures is for the decision maker subject to challenge on traditional Wednesbury grounds (Alternative A5 Alliance (March 2013)). Support from statutory consultees on the effectiveness of mitigation measures is likely to be an important factor if relying on mitigation and remedial measures to reach a decision that there is not likely to be significant effects on the environment. In Feeney, which concerned a Transport and Works Order as part of the Chiltern Railways Evergreen3 Project which will, among other things, provide a new direct rail route between Oxford and London, a condition was imposed requiring further survey work on the effects of air pollution to be carried out followed by the implementation of mitigation measures, if necessary, on the recommendation of Natural England. Natural England gave evidence that there are tried and tested management techniques available and that there could be confidence that they would be implemented and, on that basis, the court decided that the Secretary of State was entitled to take account of the condition as part of the screening and conclude that no appropriate assessment was required.
- B.4.53 Similarly, in Treagus (April 2013) the Environment Agency advised, in the context of an application for planning permission for an anaerobic digestion plant, that the incorporation of the necessary measures to address the management of both existing and surface water systems would ensure that the development would not lead to any significant adverse environmental impacts. The court was satisfied that the planning authority "was reasonably entitled to conclude that the development was not likely to have significant effects on the environment".
- B.4.54 On the other hand, in Alternative A5 Alliance, the agency with primary responsibility for the Foyle and Finn rivers gave evidence casting doubt as to the effectiveness of measures to mitigate the impact of a new trunk road on the rivers which are also SACs. That evidence was unchallenged and the court therefore ruled that the decision maker was in doubt as to the effectiveness of the mitigation measures, or that it was at least irrational for them not to be in

such doubt, and it was unlawful for no appropriate assessment to be carried out (i.e. reach a negative screening decision).

As well as the requirement to consider the effectiveness of remedial/mitigating measures, there is also a need to consider whether there can be confidence that the measures will be implemented.

B.4.55 See also the cases of *R v Rochdale MBC ex parte Tew* and *R v Rochdale MBC ex parte Milne* in respect of outline planning applications at [D.11](#) below.

B.4.56 The issue addressed in *Hart District Council (Dilly Lane)* was the extent to which Competent Authorities should take account of measures built into a project and forming an integral part of the proposal, which are designed to avoid or reduce the significant effects of a project or plan, in this context on a European site in respect of the Habitats Regulations. The judge ruled (at paragraph 76) that

“I am satisfied that there is no legal requirement that a screening assessment under Regulation 48(1) must be carried out in the absence of any mitigation measures that form part of a plan or project. On the contrary, the competent authority is required to consider whether the project, as a whole, including such measures, if they are part of the project, is likely to have a significant effect on the SPA. If the competent authority does not agree with the proponent’s view as to the likely efficacy of the proposed mitigation measures, or is left in some doubt as to their efficacy, then it will require an appropriate assessment because it will not have been able to exclude the risk of a significant effect on the basis of objective information.....”

B.4.57 In making this judgment, the judge examined that cases of *Lebus*, *Gillespie* and *Catt* referred to above, in terms of the EIA regulations. It is now well established that avoidance and mitigation measures should be taken into account in screening decisions for EIA, in the same way as Competent Authorities are required to take them into account in screening a plan or project under the Habitats Regulations. If relying on them to conclude that there will not be a likely significant effect, decision-makers should have no doubt as to the effectiveness of the mitigation and should have confidence that the measures will be implemented.



## B.5 Special cases and the series of other EIA regulations

### Introduction

B.5.1 In addition to the principal regulations, the Government has introduced a series of other regulations to implement the requirements of the Directive in Scotland. These generally relate to particular sectors, such as port or forestry projects, or they embedded the requirements of EIA into existing regulatory processes, such as the Transport and Works Act. In a few cases the other regulations also have the effect of introducing a new regulatory process because there was no consenting procedure into which the EIA requirements could be integrated.

B.5.2 Annexe 2 of this Handbook sets out in detail the full range of current ([late 2013]) regulations. In summary:

- a) The principal regulations include procedures relating to:
  - i. 'Multi-stage consents' i.e. applications for the approval of 'reserved matters' or for consent or agreement required by a condition imposed on a grant of planning permission in principle, following a grant of outline planning permission or a planning permission in principle respectively (regulations 27 to 31);
  - ii. The review of old mineral permissions (ROMPs) (regulation 33);
  - iii. Simplified Planning Zones and Enterprise Zones (regulation 32);
  - iv. Marine fish farming (regulation 35); and
  - v. Urgent Crown development (regulation 34).
  
- b) Separate regulations now relate to the following sectors:
  - i. Forestry <http://www.legislation.gov.uk/ssi/1999/43/contents/made>
  - ii. Offshore petroleum production and pipelines (1999);  
<http://www.coastlaw.uct.ac.za/iczm/legis/si1999/19990360.htm> amended by  
<http://www.coastlaw.uct.ac.za/iczm/legis/si2007/20070933.htm>
  - iii. Public gas transporter pipeline works (1999);  
<http://www.legislation.gov.uk/uksi/1999/1672/contents/made>
  - iv. Nuclear reactors (1999);  
<http://www.legislation.gov.uk/uksi/1999/2892/contents/made>
  - v. Water management works (2003);  
<http://www.legislation.gov.uk/ssi/2003/341/contents/made>
  - vi. Agriculture (2006);  
<http://www.legislation.gov.uk/ssi/2006/582/contents/made>
  - vii. Extraction of minerals by marine dredging (2007);  
<http://www.legislation.gov.uk/uksi/2007/1067/contents/made>
  - viii. Major new transport works such as railways, tramways and bridges (2007);  
<http://www.legislation.gov.uk/ssi/2007/570/contents/made>
  - ix. Other marine works (2007); and  
<http://www.legislation.gov.uk/uksi/2007/1518/contents/made>
  - x. Electricity works (power stations and transmission lines) (2002 and 2008)  
<http://www.legislation.gov.uk/ssi/2000/320/contents/made> and  
[http://www.legislation.gov.uk/ssi/2008/246/pdfs/ssi\\_20080246\\_en.pdf](http://www.legislation.gov.uk/ssi/2008/246/pdfs/ssi_20080246_en.pdf)

## Multi-regime Consents

- B.5.3 It is possible that some proposals will require consent under more than one consenting regime, and therefore potentially EIA under more than one set of EIA regulations. Recent Scottish Government research<sup>15</sup> suggests that such projects are to be few in number in relation to the large number of applications requiring EIA under a single set of EIA regulations but they may become more common in future.
- B.5.4 For example, the emerging marine renewables sector has already seen several applications requiring EIA under the Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2000 (the "Electricity Works Regulations") and the Marine Works (Environmental Impact Assessment) Regulations 2007 (the "Marine Works Regulations"). Regulation 10 of the Marine Works Regulations allows an appropriate authority to determine that an EIA is not required in relation to an application for a marine works proposal where an assessment of any effects on the environment of the proposal has been, is being or is to be carried out by the appropriate authority or another consenting authority in accordance with the requirements of the EIA Directive. In relation to marine renewables, this provision would allow an EIA to be undertaken in accordance with the Electricity Works Regulations without the need to also consider the Marine Works Regulations but this provision has not been heavily relied upon to date by Marine Scotland.
- B.5.5 The Scottish Government research suggested that stakeholders did not have any significant difficulties with the requirement to assess certain proposals under multiple EIA regulations. However, it does contain a number of recommendations for good practice (see Chapter 4 of the research for further information):
- i. Proposers should undertake early engagement with consenting authorities and consultees as it provides an opportunity to discuss what consents will be required, scoping of the environmental information likely to be required, the EIA strategy (e.g. whether a single Environmental Statement will be produced covering all aspects of the proposal or whether there will be separate Environmental Statements for different elements of the proposal) and the extent to which particular environmental information may be utilised in other assessments such as a Habitats Regulations Appraisal.
  - ii. Clear and accessible guidance should be available to proposers, addressing legal and practical requirements of the relevant EIA process(es) although direct early engagement will also help to provide clear guidance.
  - iii. Consenting authorities may consider preparation of sector or project specific guidance on EIA and related assessments as the projects which have required, or are likely to require, EIA under multiple EIA regulations are confined to a small number of sectors. Marine Scotland are in the process of doing this with their draft Marine Scotland Licensing and Consents Manual Covering Marine Renewables and Offshore Wind Energy Development<sup>16</sup>.
  - iv. Where possible, proposers should twin-track applications for planning permission (and similar consents) with applications for environmental authorisation as promoted by Scottish Government and SEPA guidance (PAN 51<sup>17</sup> and Land Use Planning System SEPA Guidance Note 15<sup>18</sup> respectively). However, proposers may, in some cases, wish to establish the planning acceptability of a project prior to developing the detailed technical specification and information required for environmental authorisations.

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<sup>15</sup> <http://www.scotland.gov.uk/Resource/0042/00422499.pdf>

<sup>16</sup> <http://www.scotland.gov.uk/Resource/0040/00405806.pdf>

<sup>17</sup> <http://www.scotland.gov.uk/Resource/Doc/152228/0040973.pdf>

<sup>18</sup> <http://www.sepa.org.uk/planning.aspx>

## B.6 The contents of an environmental statement

[See Annexes 1, 2 and 3]

- B.6.1 Paragraph 5.4 of PAN 1/2013<sup>19</sup> and Regulation 2(1) and Schedule 4 Parts I and II of the principal regulations<sup>20</sup>, describe the contents of an 'Environmental Statement'. Essentially, an Environmental Statement is the written output of the proposer's EIA team. It is intended to provide the focus for the EIA process by setting out all of the relevant information on which the public and consultees may then comment and the Competent Authority must then take into account in making the decision.
- B.6.2 In the case of Berkeley the House of Lords commented that an Environmental Statement must not be a paper chase. Lord Hoffman said, "the point about the environmental statement contemplated by the Directive is that it constitutes a single and accessible compilation, produced by the applicant at the very start of the application process, of the relevant environmental information and the summary in non-technical language."
- B.6.3 Its primary purpose, therefore, is to inform the decision maker of the environmental implications of the proposal. It should also inform statutory consultees, other interested bodies and members of the general public and provide a basis for consultation and debate.

### Box

B.6.1

An Environmental Statement Should:

- be a "stand-alone" and complete document (though not necessarily a single volume);
- provide enough detail to allow readers to form an independent judgement;
- be unbiased, neither advocating the project nor attempting to serve public relations purposes; and
- avoid technical discussion and terminology except where absolutely necessary, for example in relation to noise or air quality; and include a Non-Technical Summary setting out the main findings of the ES in accessible plain English

### Key information

- B.6.4 The EC Directive specifies, in Annex III, and the principal regulations in Schedule 4 Part 2, the information which must be included in an Environmental Statement. However, recognising that there may be occasions when some information may not be relevant to the consent procedure or may be impractical to collect, they also specify other information that an Environmental Statement may reasonably be required to include, by way of explanation or amplification (the principal regulations Sch.4 Part 1) (see also [Box B.6.3](#) below). The equivalent requirements in other Regulations are referred to in [Annexe 2, Table 3](#).
- B.6.5 Thus, Regulation 2 of the principal regulations states that an environmental statement:
- a) "means a statement that includes such of the information referred to in Part 1 of Schedule 4 [Box B.6.3 below] as is reasonably required to assess the environmental effects of the development and which the applicant can, having regard in particular to current knowledge and methods of assessment, reasonably be required to compile,  
but
  - b) that includes at least the information referred to in Part 2 of Schedule 4" [Box B.6.2 below].

<sup>19</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

<sup>20</sup> <http://www.legislation.gov.uk/ssi/1999/1/contents/made>

## B.6.2

Information that MUST be included in an Environmental Statement - the minimum requirement

- A description of the proposal, comprising information about the site and the design and size or scale of the proposal
- A description of the measures envisaged in order to avoid, reduce and if possible, remedy significant adverse effects (sometimes referred to as the mitigating measures but see C.9 below)
- The data required to identify and assess the main effects which that development is likely to have on the environment
- An outline of the main alternatives studied by the proposer and an indication of the main reasons for the choice, taking into account the environmental effects
- A non-technical summary of the above information

## B.6.6

However, it should be noted that if matters in [Box B.6.3](#) are not included in an Environmental Statement, but the Competent Authority decides that it is reasonably required to give proper consideration to the likely environmental effects of the proposal, the Competent Authority can require the proposer (by giving notice in writing) to submit the information specified. If it does require more, the Authority must have regard in particular to current knowledge and methods of assessment (Regulation 23, of the principal regulations).

## B.6.7

The responsibility for carrying out the studies for the Environmental Statement and reporting the findings is placed on the proposer, although there are statutory responsibilities for public bodies to make available the relevant information which they hold. Some environmental issues, however, fall outside the competence or knowledge of any individual proposer. In particular, the accurate characterisation of cumulative impacts of many developments in any one region or locality can rarely be satisfactorily assessed by individual proposers.

## B.6.8

The regulations require the proposer to include alternatives which have been considered, if no alternatives have been considered none need be included in the Environmental Statement (see further paragraph B.6.10 below). An analysis of alternatives which, for example, involve different approaches to meeting social needs (rail travel instead of road, for example, or energy conservation instead of a new oil terminal) cannot reasonably be expected in a project Environmental Statement.

### Electronic Versions

## B.6.9

Environmental Statements are increasingly available on CD or DVD and are increasingly transferable electronically. Distribution in this form can be compliant. The principal regulations allow for the use of electronic communications for certain procedures. Further information and guidance can be found in Circular 3/2004 and PAN 70 Electronic Planning Service Delivery<sup>21</sup> (10). See also paragraphs [D.1.8](#) and [D.1.9](#) below.

<sup>21</sup> <http://www.scotland.gov.uk/Publications/2008/11/17142750/7>

Matters normally to be included in an Environmental Statement which is reasonably required to assess the environmental effects of the proposal and which the applicant can reasonably be required to compile (subject to the minimum requirements listed in Box B.6.2 above), (for example, see the principal regulations Sch. 4 Part 1):

### Description of the proposal

A description of the proposal including, in particular:

- a] the physical characteristics of the whole development, and the land use requirements during the construction and operational phases;
- b] the main characteristics of the production processes, for instance, the nature and quantity of the materials to be used;
- c] an estimate, by type and quantity, of expected residues and emissions (water, air and soil pollution, noise, vibration, light, heat, radiation etc.) resulting from the operation of the proposal.

### Alternatives considered

An outline of the main alternatives studied by the proposer and an indication of the main reasons for choosing the proposal proposed, taking into account the environmental effects.

### Baseline environmental information

A description of the aspects of the environment likely to be significantly affected by the proposal including in particular, population, flora and fauna, soil, water, air, climatic factors, material assets, including the architectural and archaeological heritage, landscape and the inter-relationship between these factors.

### Environmental effects

A description of the likely significant effects of the proposal on the environment which should cover the direct effects and any indirect, secondary, cumulative, short, medium and long-term, permanent and temporary, positive and negative effects of the proposal resulting from:

- the existence of the proposal;
- the use of natural resources;
- any emission of pollutants, creation of nuisances, and elimination of waste; and
- the description by the proposer of the forecasting methods used to assess the effects on the environment.

### Mitigation measures

A description of the measures envisaged to prevent, reduce and, where possible, to offset any significant adverse effects on the environment.

### A non-technical summary of the above information

### Technical difficulties and limitations

An indication of any difficulties, such as technical deficiencies or lack of know-how, encountered in compiling the required information.

## The Assessment of Alternatives

- B.6.10 The Environmental Statement should contain an outline of the main alternatives studied by the proposer and an indication of the main reasons for his choice, taking into account the environmental effect (see [Box B.6.3](#) above). The following points seem clear:
- a] a proposer does not have to consider alternatives; but if they do
  - b] they must provide an “outline of the main alternatives studied”; and
  - c] for each of the main alternatives studied, an indication of the main reasons for the choice, that is, why the alternative was not adopted, taking account of its environmental effects and those of the submitted project; noting that
  - d] the predicted environmental effects of the alternatives rejected may have been better or worse than the submitted project.
- B.6.11 Thus, EIA does not absolutely constrain the selection of the submitted project in preference to alternatives studied, but it is reasonable to expect that a rational explanation would be included in the Environmental Statement as to why a more, or less, environmentally harmful project was chosen for submission

## B.7 Importance of compliance with the directive

- B.7.1 It is clear from this Handbook that the EIA process is complex and involves many decisions and judgements, all of which could be challenged by an aggrieved party either through the domestic Courts or by reference to the European Commission.
- B.7.2 Failing to comply with the principal regulations may make a decision to grant permission unlawful and lead to it being quashed by the Court (e.g. Hardy). Although the Court has the power not to quash decisions where there has been procedural impropriety, this discretion is very limited in cases involving EIA because of the duty to comply with EC legislation. It can only be exercised where there has been “substantial compliance” with the Directive.
- B.7.3 If the project is one to which the principal regulations apply it is essential to comply fully with them. It is not sufficient to argue that EIA was not necessary because all of the information that could have been in the Environmental Statement was available elsewhere and was taken into account before the decision was taken; or that had an Environmental Statement been available the decision would have been the same.
- B.7.4 In Berkeley the House of Lords unanimously emphasised the need to comply with the EIA Regulations. It took the view that when considering compliance with the EIA Regulations it was necessary to consider the EIA Directive. The Lords stressed that the importance of the EIA process extended beyond the decision on the application. Its purpose is to provide individual citizens with sufficient information about the possible effects and give them the opportunity to make representations. The Court was not entitled to decide after the decision had been made that the requirement of EIA could be dispensed with on the ground that the outcome would have been the same even if these procedures had been followed. In his leading judgment, Lord Hoffman noted that the Directive did not allow Member States to treat “a disparate collection of documents produced by parties other than the developer and traceable only by a person with a good deal of energy and persistence as satisfying the requirement to make available to the public the information which should have been provided by the developer”.
- B.7.5 The Directive has direct effect in Britain even though domestic Regulations are in place (Bozen and Delina Wells). Individuals may complain to the European Commission that planning and other types of applications should have been subject to EIA, or that where EIA was undertaken the procedures were not followed correctly or the information in the Environmental Statement was inadequate. This can lead to formal legal proceedings between the Commission and the United Kingdom. This can be lengthy and prolonged and can increase uncertainty for proposers and planning authorities.
- B.7.6 Nothing can guarantee there will be no legal challenge. But all those involved in the EIA process can minimise the risk of such challenge being successful by ensuring compliance with all of the Regulations, particularly:
- All applications should be properly screened and copies of screening opinions made available to the public;
  - Environmental Statements should contain all of the information required by Schedule 4 of the Regulations;
  - All of the significant effects that the project is likely to have on the environment should be identified and taken into account prior to a decision to allow the project to go ahead;
  - The permission that is granted should relate only to the project whose environmental effects have been described, assessed and mitigated in the Environmental Statement;
  - A record of all decisions and the reasons for them should be kept.

## B.8 Relationship of EIA with Strategic Environmental Assessment (SEA) and Assessments under the Habitats Regulations (HRA)

### Strategic Environmental Assessment

- B.8.1 The EIA process does not operate in isolation. It concentrates on informing decisions to be taken in respect of whether specific 'projects' should proceed and, if so, how their potential environmental impacts should be avoided, cancelled, reduced or offset. In this context a project may comprise several component parts subject to a number of regulatory procedures. However, a project may also be part of a programme of proposals. The effects of a programme of several component projects may be different to the sum of the effects which each project alone would cause and, in any event, it may be important to understand the total effects of the programme before embarking on the first of the component projects.
- B.8.2 It was for this reason that the EC introduced the concept of environmental assessment of plans and programmes, widely referred to as 'Strategic Environmental Assessment' or 'SEA'. SEA was widely undertaken by local authorities in Scotland from the mid-1990's, on a voluntary, good-practice basis. About half of the early SEA reports also assessed the effects of the plan on social and economic interests. This wider assessment process is referred to as 'sustainability appraisal'.
- B.8.3 The EC introduced compulsory assessment of the effects of certain public plans and programmes on the environment in the EC Directive 2001/42/EC, which came into force via statutory regulations in Scotland in 2004. However, the scope of public plans and programmes subject to SEA under the provisions of the EC Directive is arguably not comprehensive. In 2005 the Scottish Parliament enacted the Environmental Assessment (Scotland) Act<sup>22</sup>, which applies the SEA process to all plans, programmes and strategies in Scotland, with very few exceptions. The extended scope of the Act is unique in Europe.
- B.8.4 The higher level of assessment in SEA is intended to inform authorities, who are responsible for making plans and programmes, about the environmental effects of implementing the plans and programmes, before they are adopted or given effect.
- B.8.5 There are similarities with the EIA process. SEA also involves gathering baseline environmental information, predicting the significance of effects and modifying the proposals to avoid, cancel, reduce or offset the effects, as well as procedural similarities such as scoping, publication of a report and consultation with environmental bodies. However, there are also differences, most of which are related to the fact that the body responsible for the plan will usually be the body responsible for the SEA process and the Environmental Report. Differences also relate to the fact that this 'higher tier' of environmental assessment may not be able to assess the potential effects with the same degree of detail and confidence as a project EIA, and the consideration of alternatives is mandatory.
- B.8.6 Figure B.8.1 below compares various aspects of the EIA and SEA processes. The application of the procedures is not mutually exclusive, although in practice a proposal will normally require either an EIA or an SEA, but not both. Notwithstanding this point, it is possible that a proposal could be assessed under both processes at different points in its preparation lifespan. Firstly, through an SEA at a strategic level, as part of a larger programme and secondly, in a detailed EIA, as an individual project before it is given consent. The circumstances under which detailed assessments are required for an individual proposal

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<sup>22</sup> <http://www.legislation.gov.uk/asp/2005/15/contents>



under both SEA and EIA is expected to be limited. However, where an SEA has previously been undertaken for such a proposal, there can be opportunities for streamlining the subsequent EIA, as many of the potential significant effects will have been addressed at strategic level.

## Habitats Regulations Appraisal

- B.8.7 All Competent Authorities, before undertaking or giving any form of permission, consent or other authorisation to a plan or project, must check whether the plan or project would be likely to have a significant effect on a 'European site'. Where a significant effect on a 'European site' cannot be excluded on the basis of objective information, a plan or project must be subject to an 'appropriate assessment' under the provisions of regulation 48 (plans and projects generally) or 85B (land use plans) of the Conservation (Natural Habitats &c) Regulations 1994, as amended and/or regulation 61 (plans and projects generally) or regulation 102 (land use plans) of the [Conservation of Habitats and Species Regulations 2010](#), see paragraph B.1.13 above. European Commission guidance, Managing Natura 2000 Sites: The provisions of Article 6 of the 'Habitats' Directive 92/43/EEC<sup>23</sup>, makes it clear that the requirement for a Habitats Regulations Appraisal is not restricted to proposals within a European site but will also apply to proposals outside the boundaries of a European site but which can have a significant effect on the site:

"As regards geographical scope, the provisions of Article 6(3) are not restricted to plans and projects which exclusively occur in or cover a protected site; they also target developments situated outside the site but likely to have a significant effect on it."

- B.8.8 These regulations implement the requirements of the Birds and Habitats Directives (EC Directives 79/409/EEC and 92/43/EEC) as they apply to the regulation of plans and projects in Scotland. European sites include all candidate and designated Special Areas of Conservation (SACs) and classified Special Protection Areas (SPAs), often referred to as the 'Natura 2000 network'. As a matter of Government policy the regulations are extended to cover the effects on potential SPAs and listed Ramsar sites. Further detail on the application of the regulations is given in the Scottish Government Circular 1/2009 on Development Planning<sup>24</sup> which replaced Circular 6/1995 The Conservation (Natural Habitats Etc.) Regulations 1994 Annex D Appendix A paragraph 3 (reference 11).
- B.8.9 Figure B.8.1 below compares various aspects of the EIA and SEA processes with the requirements of the Habitats Regulations appraisal. The Habitats Regulations appraisal may overlap the SEA or the project EIA. A project Environmental Statement may include all the information necessary for the Competent Authority to undertake the appraisal under the Habitats Regulations. The respective assessments may share some procedural steps, such as information gathering, scoping and consultation; but the Competent Authority must clearly and distinctly follow the procedures of the respective assessment processes, which are different in many respects. To merge the two procedures together could lead to a decision on a project being open to challenge for non-compliance.
- B.8.10 The Environmental Report of the SEA of a plan or programme may include the plan-making body's assessment of the plan under the Habitats Regulations. However, the requirements of the respective assessment procedures are very different. If the information for the Habitats Regulations appraisal is included in an Environmental Report it must be clearly distinguishable, and the appraisal requirements clearly signposted, so that full compliance is transparent and demonstrable. In particular, if an appraisal is required under the Habitats Regulations, the assessment should either be recorded separately, or the Environmental Report must state clearly the outcome of the Habitats Regulations appraisal. It should clearly set out, amongst other things, the likely significant effects on the interest features of the relevant European site(s), the outcome of the appropriate assessment in terms of the implications for the site's conservation objectives, and whether the Competent Authority has

<sup>23</sup> [http://ec.europa.eu/environment/nature/natura2000/management/docs/art6/provision\\_of\\_art6\\_en.pdf](http://ec.europa.eu/environment/nature/natura2000/management/docs/art6/provision_of_art6_en.pdf)

<sup>24</sup> <http://www.scotland.gov.uk/Resource/Doc/323419/0104144.pdf>

been able to ascertain that there would not be an adverse effect on the integrity of the European site. Where the Competent Authority concludes that the plan or programme would have an adverse effect on the conservation interests for which a European Site has been designated, it may only proceed with the plan or programme where certain additional statutory tests are satisfied.

**Figure 2 - Comparisons between the EIA, SEA and Habitats Regulations Appraisal processes**

Elements of the process	EIA process	SEA process	HRA process
<b>Origin</b>	EC Directive 85/337/EEC amended by 97/11/EEC and 2003/35/EC.	EC Directive 2001/42/EC	EC Directives 79/409/EEC and 92/43/EEC
<b>Statutory basis Scotland</b>	Various statutory instruments see Annexe 2 of this Handbook	Environmental Assessment (Scotland) Act 2005	Conservation (Natural Habitats &c) Regulations 1994 as amended and Conservation of Habitats and Species Regulations 2010.
<b>Applies to</b>	Certain types of projects as defined in the Directive	All public plans, programmes and strategies with few exceptions	Any plans and projects likely to have significant effects on a European site
<b>Responsible authority</b>	Competent Authorities responsible for giving authorisation to projects	Authorities responsible for giving effect to the plans etc.	Competent Authorities responsible for undertaking or giving authorisation
<b>Assessment work undertaken by</b>	The project proposer	Authorities responsible for giving effect to the plans etc.	The Competent Authority who can require all necessary information to be submitted by the proposer of a project
<b>Trigger for requiring assessment</b>	EIA is compulsory for 'Schedule 1 projects'. 'Schedule 2 projects' are screened for likely significant effects on any environmental interest	Compulsory for certain plans, programmes and strategies and screening the others that would have a likelihood of significant effect on the environment	Compulsory screening of plans and projects for likely significant effect on a European site
<b>Reporting provisions</b>	The project proposer must produce an Environmental (Impact) Statement which must contain specified material	The authority responsible for giving effect to the plan must produce an Environmental Report which must contain specified information	None, but in practice project proposers or plan makers produce a report to inform the assessment, although the content of the report is not specified
<b>Publicity requirements</b>	Statutory publicity set out in regulations	Statutory publicity set out in the Act	Consultation with the public discretionary, and only if an 'appropriate assessment' is required
<b>Consultation requirements</b>	Statutory consultation with SNH, SEPA, and other consultees (including the public) as specified in regulations	Statutory consultation with SNH, SEPA, Historic Scotland and other consultees (including the public) as specified in the Act	Statutory consultation only with SNH and only if an 'appropriate assessment' is required
<b>The precautionary principle</b>	Applied proportionally as a matter of policy and good practice as may be necessary	Applied proportionally as a matter of policy and good practice as may be necessary	Embedded in law – Competent Authority must ascertain (beyond reasonable doubt) that there would not be an adverse effect on integrity of the site
<b>Effect of a negative assessment</b>	Competent Authority must decide whether benefits of the project outweigh the identified negative environmental effects	Relevant authority must decide whether benefits of the plan programme or strategy outweigh the identified negative environmental effects	The plan or project cannot be undertaken, given effect or consent, as the case may be, unless there are no alternative solutions, there are imperative reasons of overriding public interest and compensatory measures are secured to ensure the coherence of the Natura 2000 network
<b>Monitoring requirements</b>	None required by the statute but Competent Authority may impose monitoring conditions where necessary	The effects of implementing the plan must be monitored in accordance with proposals set out in a report when the plan is adopted	None required by the regulations, Government has to report periodically to EC on site condition and on all cases where derogations have applied to allow a potentially damaging project to proceed

## Part C

# Before submission of the environmental statement

# C.1 Deciding whether EIA is required: the “screening” process

[See also Section B.3 and B.4 above and Annexe 4]

## Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> Before Submission of the Environmental Statement	<b>C1</b> Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Guidance

- C.1.1 Competent Authorities have a statutory duty to consider whether any project which they may be responsible for authorising is a project that should be subject to the EIA process. The proposer can use statutory procedures to ask the Competent Authority or the Scottish Ministers whether an Environmental Statement will be required for a project. Guidance on this stage is provided in PAN 58<sup>25</sup> at paragraphs 35 - 37 and Circular 8/2007<sup>26</sup> paragraphs 27 - 86. You may also find the Scottish Government questions and answers publication useful at <http://www.scotland.gov.uk/Publications/2007/11/26103828/0> and the EC guidance on screening at <http://www.ess.co.at/AIR-EIA/DOCS/scren-en.htm>
- C.1.2 The statutory provisions for the screening process are set out in [Annexe 2 Table 3](#). Note that the criteria and tests required to determine which projects are subject to EIA are set out in [section B.3](#) and [B.4](#) above, this section is about the procedures relating to the screening process. It should also be noted that a prospective applicant seeking planning permission for a 'national development' or a 'major development' under the planning hierarchy must indicate in the optional pre-application screening notice, whether the Competent Authority has adopted a screening opinion, or the Scottish Ministers made a screening direction, in respect of that development (Regulation 5 Town and Country Planning) Development Management Procedure Regulations 2008.<sup>27</sup>

## Introduction

- C.1.3 Reference is made here to [sections B.3](#) and [B.4](#) and [Annexe 4](#) which explain which projects require EIA. It is the responsibility of the Competent Authority to ensure that all relevant applications are "screened" to establish whether EIA is required. In a planning authority, this will normally be carried out by the officer dealing with the planning application. But the decision is taken on behalf of the planning authority so it is important to ensure that the officers have delegated authority to do so. In *R v St Edmundsbury Borough Council, ex parte Walton*, a decision of the planning authority to grant planning permission was overturned because a decision not to require EIA was taken by an officer who had no formal delegation. Paragraphs 98 - 101 of PAN 58 gives best practice guidance advice in terms of the management of EIA applications.
- C.1.4 Where EIA is required, the authority must provide a written statement giving full reasons for its decision. There is no similar requirement where the authority decides that EIA is not required. However, if an interested party so requests, the European Court of Justice has held that the competent authority is obliged to communicate to him the reasons for the determination or the relevant information and documents in response to the request made (*case C-75/08, Christopher Mellor*). It would therefore be prudent for the authority to make and retain for its own use a clear record of the issues considered and the reason for its decision. This would also be useful in the event of any challenge to the planning decision based on EIA grounds (see [B.7](#) above).
- C.1.5 If the project is EIA development the Competent Authority is prohibited from giving consent to the project until it has taken the environmental information into account unless it is "exempt development". Exempt development is development in respect of which the Scottish Ministers have directed that the particular proposal is exempted from the application of the EIA regulations (Reg.2 the principal regulations<sup>28</sup>). Paragraph [B.3.6](#) gives further information

## Proposer's Options as to the Submission of an Environmental Statement

- C.1.6 If the project is a Schedule 1 project the proposer has no option but to submit an Environmental Statement. However, if it is a Schedule 2 project, the proposer can:-

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<sup>25</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

<sup>26</sup> <http://www.scotland.gov.uk/Publications/2007/11/30082353/14>

<sup>27</sup> [http://www.opsi.gov.uk/legislation/scotland/ssi2008/ssi\\_20080432\\_en\\_1](http://www.opsi.gov.uk/legislation/scotland/ssi2008/ssi_20080432_en_1)

<sup>28</sup> <http://www.opsi.gov.uk/legislation/scotland/ssi1999/19990001.htm>

- Submit an Environmental Statement with the application for a consent, in which case the EIA process is initiated.
- Ask the Competent Authority for a screening opinion, which is a determination as to whether an Environmental Statement will be required.

### Procedures for establishing whether or not EIA is required ('screening')

C.1.7 The determination of whether or not EIA is required for a particular development proposal can take place at a number of different stages:

- (a) the proposer may decide that EIA will be required and submit a statement which he refers to as an Environmental Statement for the purpose of the Regulations with his application;
- (b) the proposer may, before submitting any application, request a screening opinion from the authority. If the proposer disputes the need for EIA (or a screening opinion is not adopted within the required period), the proposer may apply to Scottish Ministers for a screening direction;
- (c) the Competent Authority may determine that EIA is required following receipt of an application. Again, if the proposer disputes the need for EIA, the applicant may apply to Scottish Ministers for a screening direction;
- (d) Scottish Ministers may determine that EIA is required for a planning application that has been called-in for their determination or is before them on appeal;
- (e) Scottish Ministers may direct that EIA is required at any stage prior to the granting of consent for a particular project.

C.1.8 A proposer may ask the Competent Authority for a screening opinion as to whether an Environmental Statement will be required before submitting an application for consent. The Competent Authority has three weeks (or such extended period as agreed between the parties) from receipt of the request in writing to provide its opinion, in writing (for example, see Reg.5(4) of the principal regulations).

#### Box

C.1.1

The decision as to whether or not an EIA should be carried out for projects covered by the Regulations is a matter for the Competent Authority (e.g. the planning authority, Forestry Commission, the Scottish Ministers etc.).

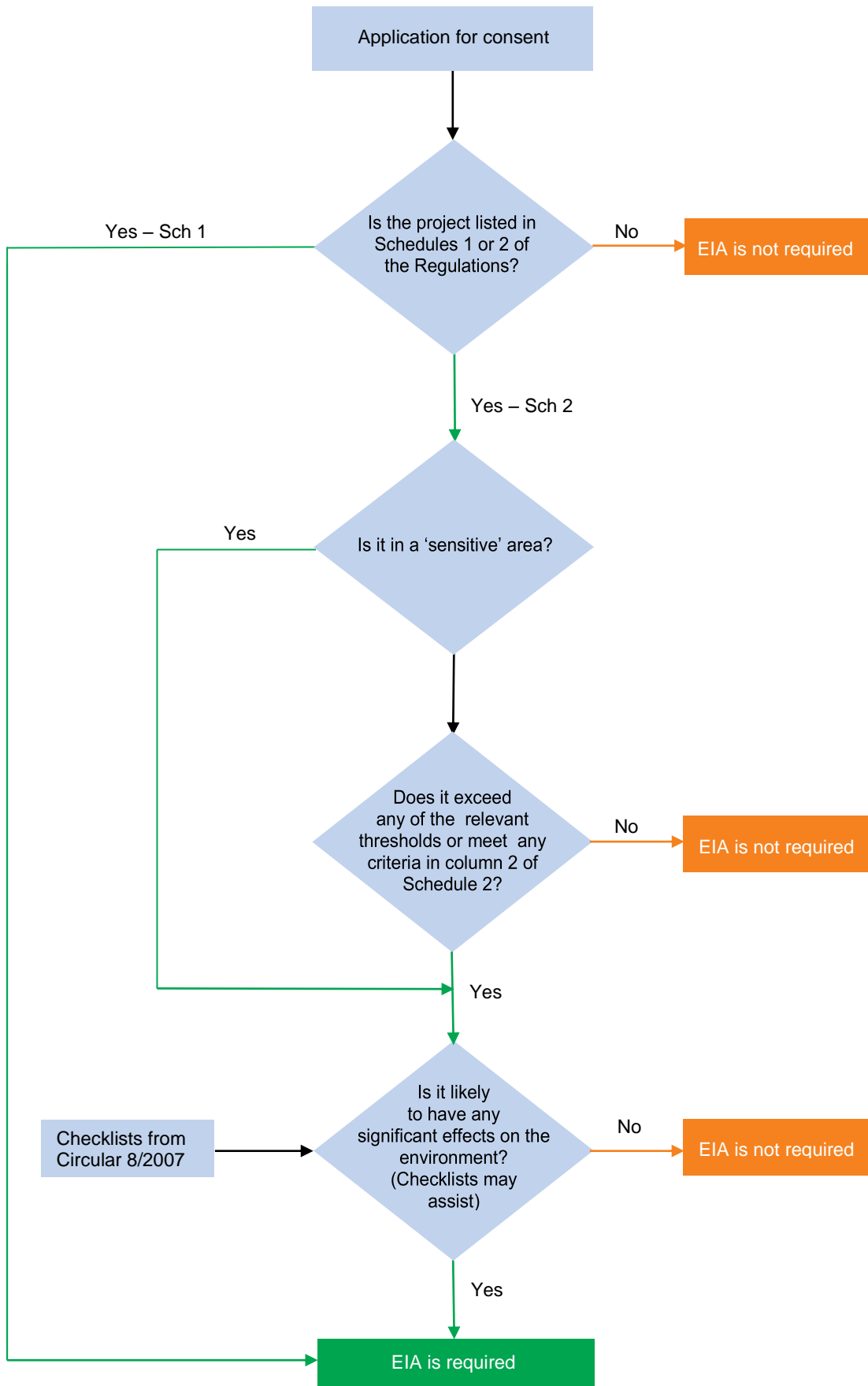
#### Key information

C.1.9 The Competent Authority may ask the proposer for any additional information necessary to give an opinion, and may consult any of the statutory consultees (see [section D.2](#) below) before giving their opinion. Where the Competent Authority decides whether or not an Environmental Statement is required and they adopt a screening opinion, they must notify the proposer in writing (for example, Reg.5(5) of the principal regulations).

C.1.10 To avoid unnecessary delays it is important that every attempt should be made to issue screening opinions within the statutory 3 week period. The regulations do, however, allow for the authority and the applicant to agree a longer period. Unless there is such agreement, the authority has no legal authority to request EIA beyond the 3-week period. However, if it had not issued a screening opinion and it considered that EIA was required the authority could seek to persuade the applicant voluntarily to carry out an assessment and provide an Environmental Statement, which would be submitted in accordance with the Regulations. Failing that, it would be open to the Competent Authority to request that Scottish Ministers issue a screening direction to determine whether EIA is required.

- C.1.11 An authority can change its mind about a screening opinion, but should do so within the statutory period unless there is prior agreement of the applicant to extend the period. It is possible that additional information about the effects of the project not known to the authority when its screening opinion was given will come to light before a decision is taken on the application. If that information indicates that EIA is required the authority must not ignore it simply because it has already issued an opinion that EIA is not required. If the authority itself is unable to change its opinion, it should request a screening direction from the Scottish Ministers (who have a general power to direct whether EIA is required) before any decision is taken on the application.
- C.1.12 The case of *Fernback and Others v Harrow LBC* addressed this issue. In this case the Court held that a “negative” screening opinion issued by a planning authority did not determine whether an application for planning permission was “EIA Development” and a “positive” one by the Planning Authority was determinative only in the absence of one by the Secretary of State (Scottish Ministers). On the other hand, an opinion by the Secretary of State, either way, determines the outcome.
- C.1.13 Failure by the Competent Authority to give an opinion in the three week period (or such extended period as agreed between the parties) means that the proposer is entitled to request a screening direction from the Scottish Ministers. The proposer may also request a screening direction from the Scottish Ministers where aggrieved by the decision of the Competent Authority to require EIA (Reg.5(6) of the principal regulations). A request for a screening direction can be made by the proposer even if the Competent Authority required further information to be submitted and the information has not been submitted (this is in case the Competent Authority’s requirements are unreasonable) (Reg.5(7) of the principal regulations).
- C.1.14 The Scottish Ministers have three weeks (or such extended period as agreed between the parties) within which to give notice in writing to the applicant of the screening direction. Such a Direction is final and the Scottish Ministers must inform the applicant and the Competent Authority of their decision (Reg.7 of the principal regulations).
- C.1.15 If a Competent Authority receives an application for consent, for a Schedule 1 or Schedule 2 project likely to have significant effects on the environment, it has three weeks (or such extended period as agreed between the parties) within which to give notice in writing to the applicant that an Environmental Statement should be submitted (Reg.7 the principal regulations). In making this decision the Competent Authority may consult the statutory consultees (see section [D.2](#) below).
- C.1.16 If the applicant receives a notice from the Competent Authority that in their opinion an Environmental Statement must be submitted, the applicant has three weeks in which to either:
- (a) confirm that a Statement will be submitted; or
  - (b) unless the Scottish Ministers have already made a screening direction, to inform the Competent Authority that the proposer is writing to seek a screening direction from the Scottish Ministers (Regs.6 and 7 of the principal regulations).
- C.1.17 If no Environmental Statement is submitted, or no request made to the Scottish Ministers for a screening direction, or the Scottish Ministers direct that an Environmental Statement is required but none is submitted, the application is not actually invalid but consideration of the application is suspended until and unless an Environmental Statement is submitted. It would, however, be open to the Competent Authority to refuse permission on the grounds of inadequate information and, in any event, the Competent Authority should not grant any consent. (See Reg.3 of the principal regulations)
- C.1.18 The procedure for establishing whether most projects under the principal regulations should be subject to EIA is shown in [Figure 3](#) below.

**Figure 3 – The procedure to establish whether an EIA is required**





## C.2 Requiring the submission of an environmental statement

[See Also Figure 3, Sections B.3, C.1, C.3, Annexes 4 and 7]

### Stage and Step in the EIA Process

Stage	Step
Stage 1: Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	<b>C2 Requiring submission of an Environmental Statement</b>
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
Stage 2: Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
Stage 3: Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.2.1 Competent Authorities and the Scottish Ministers have a statutory power to require submission of an Environmental Statement in a particular case and a statutory duty not to grant any form of consent to a project which should be subject to the EIA process, without considering the environmental information. The Ministers have wide powers to enforce the EIA regime in Scotland.

### Introduction

- C.2.2 Reference is made to [section C.1](#) above and to section B.3 and [Annexe 4](#) which explain which projects require EIA.
- C.2.3 Whether or not it is consulted about the need for EIA, a consultee in the development consent process may decide independently to advise the Competent Authority that it considers that an EIA should be carried out when it receives an application for comment as part of the regular consultation process. In this case, the consultee would have to advise the Competent Authority in sufficient time to allow it to reach a decision and advise the proposer accordingly within the 3 week period (Reg.7 of the principal regulations<sup>29</sup>).
- C.2.4 If the Competent Authority decides that it does not wish to follow the consultee's advice in a particular case, then the consultee can ask the Scottish Ministers to issue a Direction to the Competent Authority to require EIA under the Regulations (the principal regulations Reg.4).
- C.2.5 It should be noted, however, that the Scottish Ministers do not have to wait for a proposer or a Competent Authority to ask for a Direction. They can act at any time.

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<sup>29</sup> <http://www.opsi.gov.uk/legislation/scotland/ssi1999/19990001.htm>

## C.3 Preliminary contact and liaison

[See also Figure 3 and Sections C.1 and C.4.]

### Stage and Step in the EIA Process

Stage	Step
Stage 1: Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	<b>C3 Preliminary contacts and liaison</b>
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
Stage 2: Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
Stage 3: Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.3.1 Preliminary contacts and liaison are non-statutory procedures. Early engagement with decision makers and consultees, however, is recommended for example in Circular 4/2009: Development Management Procedures, in the FC Guidance and also in EIA of Forestry Projects.

### Advantages

- C.3.2 Early contact and liaison about EIA cases is of benefit to the project proposers and to the consultees. It should help to reduce consultees' time input later in the process and increase the account taken of environmental issues in the Environmental Statement. The preparation of the Statement is the duty of the project proposer.
- C.3.3 A considerable amount of information may already exist about the project location. Many projects or developments will have their basis in, or will have to comply with, an approved plan, programme or strategy. Information in the form of baseline data, consideration of alternatives, and possible mitigation of impacts that will have formed part of the Strategic Environment Assessment of these plans or strategies may be of value in the EIA process. This will be particularly relevant for the more detailed scale plans or strategies such as Masterplans or Development Frameworks. It may be helpful to seek this information early on from the relevant plan maker.
- C.3.4 Some EIA projects will be 'national development' or 'major development' as defined under the provisions of the Town and Country Planning (Hierarchy of Developments) (Scotland) Regulations 2009 (SSI 2009/51) and this includes all Schedule 1 developments. There will need to be pre-application consultation with communities in accordance with the Act and the Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013<sup>30</sup> for national and major developments. It should also be recognized that some proposals which may be subject to EIA will be categorised as "local Developments" in which case the following statutory requirements for consultation do not apply.
- C.3.5 The statutory pre-application process is begun with the submission of a proposal of application notice to the planning authority – setting out the characteristics of the proposed development and the consultation that the prospective applicant intends to carry out. The proposer should consider the resources required and appoint a coordinator with overall responsibility for the coordination and production of the Environmental Statement and its submission. The coordinator should assemble a team with the right experience and expertise. The proposer should also allow sufficient time for the assessment to be conducted properly and as thoroughly as necessary. The advice of the main parties in the EIA process should be sought at as early a stage as possible. Preliminary dialogue can be of great assistance to the proposer, in understanding the potential concerns, and for the Competent Authority and key consultees in understanding the project and steering the preparation of the Environmental Statement. However, it is not just the Competent Authority and key consultees who can steer the preparation of the Environmental Statement. PAN 1/2013 also promotes pre-application consultation with the community as an opportunity to help inform the content of the Environmental Statement.
- C.3.6 One of the important contributors to the success of an Environmental Statement can be the extent of consultation prior to its submission and the careful consideration of its scope and content at the very beginning of the process (see Section C.4 below). Non-statutory pre-application discussions, between the proposer, the Competent Authority and consultees, can provide a key opportunity to discuss the scope and content of the Environment Statement, helping the proponent to identify the main issues quickly and effectively and assisting them in scoping out issues unlikely to have significant effects at an early stage. The issue of drafts or draft extracts of the Environmental Statement, to key consultees and the Competent Authority, before the submission of the final statement and before the design is finalised, can therefore improve the Environmental Statement considerably and expedite the EIA and decision making

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<sup>30</sup> <http://www.legislation.gov.uk/ssi/2008/432/contents/made>

processes. For this to be effective, enough time must be given to the consultees and Competent Authority to comment on any drafts. This will need to be factored into the project programme. Both the Scottish Government's Energy Consents Unit and the Marine Scotland Licensing Operations Team have introduced a non-statutory gatechecking process where applicants submit, and receive feedback on, their draft application. This process does not look at the quality of the Environmental Statement but is designed to check that all relevant issues have been examined.

- C.3.7 Whilst pre-application discussions are therefore to be encouraged, for the process to be effective, it is important that as much information as possible is provided about the location and nature of the proposal. The process has to be as open and transparent as possible. Otherwise, consultees will be cautious about commenting on a proposal before its full implications can be ascertained. It should be noted that consultees are entitled to subsequently change their advice on the grounds of information or detail coming to light at a later stage.
- C.3.8 Scottish Government Circular 4/2009: Development Management Procedures contains further advice and guidance on pre-application discussions and introduces a more formal tool for project managing the planning process for national and major developments – the processing agreement.
- C.3.9 A Processing Agreement is a framework for processing planning applications or groups of applications. Statutory consultees are encouraged to engage in these processing agreements. PAN 1/2013 argues that they will "develop a shared understanding and expectation of the processes involved, and can help to identify what information is required, and from whom, and in the setting of agreed timescales for the various stages of the process". This should help to encourage a more co-operative approach throughout the EIA process.
- C.3.10 The advantages of early consultation and liaison include:
- Early identification and therefore more focused consideration of significant impacts, a more focused environment statement, and a more focused scoping process.
  - Reduction in consultees' time and/or input required later in the process.
  - Early indication of the need for detailed survey work, especially relating to data that is required over several seasons.
  - Early indication of the information required to assess the application in a manner that is proportionate and appropriate in defining the likely significant impacts on the environment.
  - It allows for early understanding of the potential concerns of the consultees, and encourages greater understanding of the project and the preparation of the Environmental Statement, by the consultees and decision maker.
  - It allows for the identification of opportunities to factor mitigation measures into the design of the proposal.

## C.4 Scoping the environmental statement

[See also Figure 3, Section C.3, Appendices 1 - 6 and the Scoping Guide in Appendix 6]

### Stage and Step in the EIA Process

Stage	Step
Stage 1: Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	<b>C4 Scoping the Environmental Statement</b>
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
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	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
Stage 3: Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.4.1 Seeking a scoping opinion is a statutory procedure whenever requested by the applicant. That is, before making an application, an applicant may ask the Competent Authority for their formal opinion on the information to be supplied in the Environmental Statement (a “scoping opinion”). This provision allows the proposer to be clear about what the authority considers the main effects of the proposal are likely to be and, therefore, the topics on which the Environmental Statement should focus (Reg.14 of the principal regulations<sup>31</sup>).
- C.4.2 The proposer must include the same information as would be required to accompany a request for a screening opinion and both requests may be made at the same time (the principal regulations Reg.14(2) and (5)). An applicant may also wish to submit a draft outline of the Environmental Statement, giving an indication of what he considers to be the main issues, to provide a focus for the authority’s considerations. The authority can require the applicant to submit any further information needed to adopt a scoping opinion. The authority must consult the consultation bodies and the proposer before adopting its scoping opinion.
- C.4.3 The Competent Authority must adopt a scoping opinion within five weeks of receiving a request for such an opinion from the proposer. Alternatively, where the proposer submitted a request for a screening opinion and a scoping opinion at the same time, the Competent Authority must provide the scoping opinion within five weeks of determining that the proposal is subject to EIA, see the principal regulations Reg.14(5)). This period may be extended by agreement in writing. As a starting point, authorities should study the general requirements for of Environmental Statements in the principal regulations and the guidance in Circular 3/2011<sup>32</sup>, paragraphs 94 – 104 and in PAN 1/2013. In addition, authorities may find it useful to consult other published guidance, such as the [European Commission, 2001 guidance](#).
- C.4.4 The scoping opinion must be kept available for public inspection for two years (with the request and documents submitted by the applicant as part of that request). For projects requiring planning permission, if an application is subsequently made for development to which the scoping opinion relates, the opinion and related documents should be transferred to Part 1 of the register with the application (the principal regulations, Reg.25).
- C.4.5 There is no provision to refer a disagreement between the proposer and the Competent Authority over the content of an Environmental Statement to Scottish Ministers (although on call-in or appeal Scottish Ministers will need to form their own opinion on the matter). However, where a Competent Authority fails to adopt a scoping opinion within five weeks (or any agreed extension), the proposer may apply to the Scottish Ministers for a scoping direction, see for example, the principal regulations at Reg.4(7). This application must be accompanied by all the previous documents relating to the request for a scoping opinion, together with any additional representations that the applicant wishes to make. The applicant should also send a copy of the request and any representations to the Competent Authority, who are free to make their own additional representations.
- C.4.6 The Scottish Ministers must make a scoping direction within five weeks from the date of receipt of a request, or such longer period as they may reasonably require. They must consult the consultation bodies and the proposer beforehand. Copies of the scoping direction will be sent to the proposer and to the Competent Authority, which must ensure that a copy is made available for inspection with the other documents referred to in C.4.5 above.

## Effect of a scoping opinion or direction

- C.4.7 An Environmental Statement is not necessarily invalid if it does not fully comply with the scoping opinion or direction. However, as these documents represent the considered view of the Competent Authority or Scottish Ministers, a statement that does not cover all the matters specified in the scoping opinion or direction will probably be subject to calls for further information under Reg.23 (see [D.6](#) below).

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<sup>31</sup> <http://www.legislation.gov.uk/ssi/2011/139/part/4/made>

<sup>32</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

C.4.8 The fact that a Competent Authority or the Scottish Ministers have given a scoping opinion or scoping direction does not prevent them from requesting further information at a later stage under Regulation 23 of the principal regulations. Where Scottish Ministers have made a scoping direction in default of the Competent Authority, the authority must still take into account all the information they consider relevant. In practice there should rarely be any difference between the relevant information and that specified by Scottish Ministers.

C.4.9 PAN 1/2013 states at paragraph 4.15 that:

The purpose of scoping is:

- to identify the key issues to be considered;
- to identify those matters which can either be scoped out or which need not be addressed in detail; and
- to discuss and agree appropriate methods of impact assessment, including survey methodology where relevant.

By drawing on the knowledge of the planning authority and consultees, a scoping exercise will help the developer to identify the main issues quickly. It also gives an early indication of where mitigation measures may be necessary and should help to reduce requests for further information once the Environmental Statement is submitted. In some cases developers have used a forum of interested parties to discuss the issues informally prior to the formal scoping stage. The matters identified by the scoping exercise will derive from the nature of the project, the site and the environment.

C.4.10 Some Environmental Statements have contained excessive detail relating to issues that are irrelevant or of little importance to the decision. Others have overlooked issues which, when they came to light later in the process, proved to be decisive in the decision. Developers should not have to pay the cost and experience the delays involved in addressing issues that are obviously not significant. Competent Authorities, consultees and the public should not have to deal with large volumes of material which is irrelevant to the decision to be made.

Box  
C.4.1

Key information

#### Advantages of Scoping

The “scoping” of the Environmental Statement can avoid excessive detail and omission of important issues and help the EIA process to focus on key issues. It is an important contribution to the EIA process. The Competent Authority has a statutory duty to provide a scoping opinion.

#### Objects of Scoping

C.4.11 The scoping exercise should provide three principal products:

- a) A list of activities which may cause environmental effects, together with initial estimates of their likelihood and their potential magnitude;
- b) A list of environmental receptors that are likely to be affected by the different stages or activities of the project;
- c) (a) and (b) are usually combined into a scoping matrix; and
- d) A plan for conducting the technical studies, including details of methods to be used and resources required.



## Box

C.4.2 Developers or their consultants should

- Make early site visits in order to ensure that matters of natural heritage and other environmental concern are identified at an early stage;
- Establish appropriate consultation arrangements with interested parties including the Competent Authority;
- Conduct the scoping exercise in a systematic manner using scoping matrices and producing a Scoping Report where appropriate; and
- Agree baseline survey requirements, prediction methods and evaluation criteria with appropriate bodies, including non-governmental bodies where they have expertise.

### Products of Scoping

- C.4.12 The findings of the scoping process should be formally presented in the form of a Scoping Report, with a scoping matrix, although the production of such a report is not a requirement of the principal regulations. The principal regulations do not specify what form either a scoping request (report) or a scoping opinion should take.
- C.4.13 A scoping report provides the proposer with a valuable check on the progress and competence of the EIA team, and provides an opportunity for interested parties to comment on the proposed coverage and methodology of the Environmental Statement. Since the scoping of the assessment should also be reported within the Environmental Statement the effort expended in producing the report will not be wasted.
- C.4.14 As a matter of good practice, the Environmental Statement should contain a description of the scoping process, including a list of all consultees involved and any concerns raised by those consultees.
- C.4.15 However, scoping should not be a formality, simply because it is seen as a good thing; it should be acted upon by the proposer. Research ([reference 12 in Annexe 5](#)) showed that:
- "involvement of conservation organisations at the scoping stage did not necessarily lead to detailed consideration of ecological issues in the resulting environmental statement. In one notable example for a development within a site of considerable ecological value, there was direct reference to a letter seeking advice from the then Nature Conservancy Council and also of the NCC's reply. That advice, including the suggestion that an ecologist be employed to conduct the ecological assessment, was not acted upon and the resulting environmental statement, particularly the ecological section, was extremely weak ..... The scoping process has been wasted".
- C.4.16 Developers are encouraged to use the published best practice guidance (references 13 and 14) and the further guidance in the Appendices of this Handbook. The Attachment to this Handbook, provides a Review Package which includes a guide through the scoping stage.

### Scope of Impacts Covered

- C.4.17 [Appendices 1 to 6](#) of this Handbook give many examples of potential impacts that may be considered when drawing up scoping matrices. A comprehensive list is not possible to draw up owing to the diversity of projects likely to arise. The examples in the Appendices should be adapted in every case and each Environmental Statement will require its own impact matrix to be developed. This is a task for the proposer's project team. However, consultees should be asked to comment on the scoping matrix and to receive drafts and a final version.
- C.4.18 When commenting, it is particularly important to bear in mind the different stages in the life of a project. Often an Environmental Statement will concentrate on operational stages, some will include construction and/or restoration stages, but few will include all the stages of a proposal

unless prompted to do so. The main stages are summarised below in [Figure 4](#). Not every project will go through every stage. Some projects, such as minerals and waste disposal will have several stages present on the site at the same time, at some stages in the project life, e.g. site preparation, extraction, restoration and after care. Each stage can be subject to phases.

- C.4.19 The impacts of associated infrastructure that will be essential for a project's operation should be covered (e.g. grid connections from an electricity generator). The impacts of new developments which are likely to follow on from the project in question should also be considered (e.g. a new runway following the development of a new terminal at an existing airport).
- C.4.20 Direct and indirect impacts that arise from the use of natural resources for the project may be included in the Environmental Statement, by way of explanation or amplification. They should, therefore, be considered in the EIA where significant. However, because these effects are included in Schedule 4 Part 1 of the principal regulations, and not in Schedule 4 Part 2, the Competent Authority can only require these details to be submitted in the Environmental Statement where they decide that the information is reasonably required to give proper consideration to the likely environmental effects of the proposed development and the applicant can, having regard to current knowledge and methods of assessment, reasonably provide it. In these cases, the Competent Authority can require the proposer (by giving notice in writing) to submit the information specified.
- C.4.21 There may be some debate as to whether a particular development will cause indirect impacts of significance on natural resources. The key question is whether the new development will alter demand for the raw materials to the extent that significant impacts may be caused by the need to supply these. The following examples illustrate the point:
- A major road may have a substantial requirement for aggregates that would have to be extracted from local sources due to the high transport cost of these materials. The related impacts should be addressed in the Environmental Statement;
  - It would be reasonable to consider the impact of gas extraction for a new turbine if the demand for gas created by the turbine would lead to an increased rate of extraction such that additional infrastructure would be needed; or
  - An EIA might consider the impacts of North Sea capelin exploitation if that was the main natural resource for a fish meal factory.

### Scoping an Application for Planning Permission in Principle

- C.4.22 Reference is made to section [D.11](#) of this Handbook which sets out specific advice on applications for planning permission in principle, the powers that a planning authority has in respect of requiring more information to be submitted in respect of such applications, and also refers to important case law.

### Relevance of Natural Heritage Designations to EIA Scoping

- C.4.23 Whether or not an Environmental Statement has been required because of the project's potential impacts on a designated area, all natural heritage and other designations likely to be significantly affected should be addressed in an Environmental Statement. It is important, therefore, at the scoping stage, to ensure that the proposer is aware of and understands the significance and purpose of all relevant designations. The effects on the designation should be carefully assessed and conclusions drawn as to their significance. This should include reference to national, development plan and other policies relating to the designations.
- C.4.24 The designations in box [C.4.3](#) above should be included in the Environmental Statement wherever applicable. On the other hand, the Environmental Statement should not focus entirely on designations. The Technical Appendices to this Handbook indicate the importance of assessing significant effects on all aspects of the natural heritage, whether or not they are subject to specific designations.

### Selecting Methods for Impact Assessment

- C.4.25 Whilst there can be no standard form of method for assessing the wide variety of impacts that may be encountered in an environmental assessment, the criteria in [Box C.4.4](#) may assist in considering the selection of methods on a case by case basis, particularly for ecological and geological assessments, reference should also be made to [Appendices 1 - 6](#) of this Handbook.
- C.4.26 There should generally be less need to depart from the well-defined procedures set out in [Appendix 1](#), for landscape and visual impact assessment, although even here, there may be a need to consider the most appropriate form of visualisation, e.g. by way of computer generated photomontage, or computer generated visual envelopes and zones of visual influence.

**Figure 4 – Project Life Stages**

Overall Stages	Life Stage	Examples of Sources of Potential Effects
Pre Consent Stages	Site Finding	Potential changes in management or use of sites, potential effects of neglect and blight
	Site Investigation/ Exploration	Physical impacts to site from equipment for drilling and testing, anemometers and other testing and sampling equipment.
	Environmental Surveys	Disturbance and other impacts resulting from natural heritage, archaeological and other sampling and surveys.
Pre-Construction Stages	Site Acquisition/ requisitioning	Abandonment of normal land use or management whilst site acquired. Neglect or removal of assets e.g. trees for timber value. Fencing may change.
	Advance mitigation	Earth moving, planting and other mitigation works in advance of commencement of main construction.
	Site preparation	Permanent and temporary landtake, earth moving, soil stripping, overburden removal, removal of site features, access, water abstraction and drainage works, fencing.
Construction Stages	Construction	Storage and handling of materials, construction activities, earth moving, soil and sub soil compaction and stripping, blasting, drilling, piling, water abstraction and drainage works, construction of tunnels and culverts, access by vehicles plant and equipment, compounds, parking, accidental spillages, noise, vibration, light, disruption to public access.
	Restoration of Construction Works	Translocation from other sites, seeding, turfing, planting and cultivating. Compounds, use of plant and equipment, vehicular access, storage of materials, movement, soil and sub soil handling, testing and site investigations/surveys.
	Commissioning	Testing, repairing, altering, moving and otherwise modifying project, often at short notice.
Operational Stages	Operational Phase	Gaseous and particulate emissions, noise, vibration, disturbance, effluents, light, water abstraction and discharges, vehicular access and parking.
	Monitoring	Monitoring investigations, surveys etc., repair, maintenance, replacement, emergencies (foreseen and unforeseen), increased maintenance and repair as project ages.
Decommissioning and Restoration	Decommissioning	Run-down in outputs, changes in balance of emissions and effluents, changes in noise and disturbance, light, water abstraction and discharges, fluctuations in outputs and activity
	Demolition/removal	Storage and handling of materials, demolition activities, earth moving, soil compaction, blasting, drilling, water abstraction and drainage works, tunnels, culverts, access by vehicles plant and equipment, compounds, parking, accidental spillages, noise, vibration, light, disruption to public access.
	Restoration	Translocation from other sites, seeding, turfing, planting and cultivating. Compounds, use of plant and equipment, vehicular access, storage of materials, movement, soil and sub soil handling, testing and site investigations/surveys
	After Care	Testing and site investigations/surveys, continuing effects of translocation from other sites, seeding, turfing, planting and cultivating
	Ongoing management	Restrictions on after use of land and ongoing management options as a result of project having occurred

Box  
C.4.3

### Designations to be Included in EIA

#### Sites Designated to Meet International Obligations

Special Protection Areas (and pSPAs)  
Special Areas of Conservation (and cSACs)  
Sites of Community Importance  
Ramsar Sites (and proposed Ramsar Sites)  
World Heritage Sites  
Biosphere Reserves  
Biogenetic Reserves

#### Nationally Designated Sites

National Parks  
National Scenic Areas  
Regional Parks  
Historic Gardens and Designed Landscapes  
National Nature Reserves  
Sites of Special Scientific Interest  
Geological Conservation Review Sites  
Nature Conservation Review Sites  
Marine Nature Reserves  
Areas of Special Protection  
EC Salmonid and Cyprinid Fisheries  
Aquifer Protection Zones  
Environmentally Sensitive Areas (ESAs)  
Marine Protected Areas  
Marine Conservation Zones

#### Local Designations with a Statutory Basis

Conservation Areas  
Country Parks  
Picnic Sites  
Statutory Local Nature Reserves  
Tree Preservation Orders

#### Locally Designated Non Statutory Designations

Areas of Great/High Landscape Value  
Other local landscape designations  
Ancient Semi Natural Woodland  
Scottish Wildlife Trust Reserves  
Woodland Trust Sites  
Royal Society for the Protection of Birds  
Nature Reserves  
Listed Wildlife Sites (SWT)  
Sites of Importance for Nature Conservation (or local system variant)  
Regionally Important Geological/Geomorphological Sites

Box  
C.4.4

Key information

### Suggested Criteria for Selecting Impact Assessment Methods

- The predicted nature and scale of the impacts.
- The overall timescales of the different phases of the project.
- The practicability of the work required.
- The expertise and experience required and its availability to the EIA team.
- The importance of environmental, in particular natural heritage, issues in the assessment of the particular project.
- The requirements of information gathering and the availability and accessibility of the information.
- The geographical scale and location of the project.
- The extent of field survey required.
- The need for laboratory work, GIS, computer modelling and other resources and sophisticated techniques of limited availability.

## C.5 Provision of information

[See also Figure 3, Sections C.1 and D.3, Appendices 1 - 6]

### Stage and Step in the EIA Process

Stage	Step
Stage 1: Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	<b>C5 Provision of Information</b>
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
Stage 2: Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
Stage 3: Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.5.1 The “consultation bodies” (see Glossary in Annexe 1 below) have a statutory duty to take reasonable steps to organise and keep up to date any environmental information relevant to their functions, and to actively and systematically disseminate the information to the public generally. This includes information listed in Reg.4(2) of the Environmental Information (Scotland) Regulations 2004<sup>33</sup> (EISR04 Reg.4 reference 15). They also have an explicit duty to provide relevant environmental information held by them to further the EIA process, particularly providing it to applicants and proposers preparing an Environmental Statement, (Reg.5 EISR04 and Reg.12 the principal regulations<sup>34</sup>) but Reg.12 of the principal regulations clearly states that any authority, body or person required to provide information under the principal regulations shall not be required to provide information which it is entitled or is bound to hold in confidence. They also have duties to provide advice and assistance to applicants as indicated below (C.5.9).

### Provision of Information

- C.5.2 In addition to this duty the principal regulations also make provision for the mandatory release of environmental information, on request, to a proposer (or their agents or consultants) preparing an Environmental Statement. It applies to all public bodies and specifically to statutory consultees (see the principal regulations at Reg.12).
- C.5.3 The duty to provide the information on request applies throughout the EIA process including the early stages of preparation of an Environmental Statement. A proposer is not bound to provide the consultation bodies with full details of the project when asking for the information - it is sufficient to identify:
- “the land and the nature and purpose of the development” and the “main environmental consequences to which the person giving the notice proposes to refer to in the environmental statement”. (See the principal regulations Reg.12)
- C.5.4 However, the EISR04 are more specific about the duties of the consultation bodies and what is expected of the applicant. Reg.5(2) requires the public authority to provide information to an applicant on request in 20 working days and to ensure, as far as practicable, that the information provided is up to date, accurate and comparable (Reg.5(3) EISR04). The applicant may request the information to be provided in a particular form or format (Reg.6 EISR04) and the consultation bodies shall comply unless either it is reasonable to make the information available in another form or format, or it is publicly available and easily accessible to the applicant in another form or format.
- C.5.5 The 20 day period for supply of information may be extended by up to a further 20 days if the volume or complexity of the information requested makes it impractical for the consultation bodies to provide it in 20 days (Reg.7 EISR04). The consultation bodies can make a reasonable charge for providing certain types of information (Reg.8 EISR04).
- C.5.6 In exceptional cases, Reg.10 of the EISR04 makes provision for the consultation bodies to refuse to provide environmental information requested by an applicant but these cases will be rare.
- C.5.7 The Competent Authorities have duties to inform the consultation bodies when they know of a case where the Regulations will apply but a proposer may approach the consultation bodies before the Competent Authority, and they have a duty to provide the information requested, if the proposer says it is in connection with the EIA Regulations.

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<sup>33</sup> <http://www.hms.gov.uk/legislation/scotland/ssi2004/20040520.htm>

<sup>34</sup> <http://www.opsi.gov.uk/legislation/scotland/ssi1999/19990001.htm>

- C.5.8 Developers should not simply ask for all information held by a consultation body for a particular site or area. The proposer may consult the consultation bodies to see whether they hold information relevant to the Environmental Statement. The Regulations require the consultation bodies to “enter into consultation with that person to determine whether it has in its possession any information which he or they consider relevant to the preparation of the environmental statement and, if they have, the public authority shall make that information available to that person.” (See for example, the principal regulations at Reg.12(4)).

### **Duty to Provide Advice and Assistance**

- C.5.9 Reg.9 of the EISR04 requires the consultation bodies to provide advice and assistance, so far as reasonable, to applicants and prospective applicants. Where a request for information has been formulated in too general a manner, the consultation bodies shall ask the applicant as soon as possible, and in any event within the 20 days period, to provide more particulars in relation to the request and should assist the applicant in providing those particulars. However, if the consultation bodies operate in accordance with a code of practice produced by the Scottish Ministers under Reg.18 EISR04, the duty to provide advice and assistance will be deemed to have been met by compliance with the code.
- C.5.10 The EIA Regulations do not override the EISR04, but sit alongside them and are intended to be complementary to them. Both Regulations seek to apply the requirements of EC Directives (in the case of the Environmental Information Regulations, via The Freedom of Information Scotland Act 2002<sup>35</sup>, which itself is intended to comply with the EC Directive 2003/4/EC on Public Access to Environmental Information<sup>36</sup> (reference 15).

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<sup>35</sup> [http://www.opsi.gov.uk/legislation/scotland/acts2002/asp\\_20020013\\_en\\_1](http://www.opsi.gov.uk/legislation/scotland/acts2002/asp_20020013_en_1)

<sup>36</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2003:041:0026:0032:EN:PDF>



## C.6 Describing baseline environmental information

[See also Figure 3, Section B.4, and Appendices 1 to 6]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	<b>C6 Describing baseline environmental information</b>
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.6.1 Contributing to the analysis of baseline information is a non-statutory part of the process. However, the proposer must include the information in the Environmental Statement so this is a necessary procedure for the proposer. Guidance on this stage is also provided in PAN 58<sup>37</sup> at paragraphs 38 - 39 and 44 - 46.

### The Developer's Responsibilities

- C.6.2 Collecting baseline information on the environment ought to be a relatively straightforward part of the EIA process (compared to impact prediction and other aspects) but it is often done inadequately. Unless there is a clear understanding of the baseline and how that may change without the changes that would be brought about by the project, there is little hope of the Environmental Statement accurately predicting and mitigating the impacts of the proposal.
- C.6.3 Information gathering should be comprehensive in respect of the significant environmental issues to be addressed in the Environmental Statement. Field work should be carefully planned, bearing in mind the seasonal constraints on some work such as ornithological, botanical, landscape and archaeological surveys. Environmental information sources should be identified and the relevant central and local government authorities and agencies should be consulted. Local communities and voluntary bodies should also be consulted as these groups can provide invaluable information.
- C.6.4 The Appendices 1 - 6 of the Handbook set out the best practice guidelines based on published work. This section sets out:
- (c) common problems and pitfalls (Box C.6.1);
  - (d) good EIA practice (Box C.6.2); and
  - (e) advice on ensuring an integrated approach to the natural heritage.
- C.6.5 Wherever ecological impacts are expected to affect botanical interests or habitats supporting animal species of interest, vascular plants should normally be surveyed to at least establish National Vegetation Communities (NVC) as this information is likely to be needed to inform ecological assessment. In habitats where lower plants are important constituents of the vegetation (for example moorland, Sphagnum mires) bryophytes and lichens should also be surveyed. For similar reasons, benthic communities should be included in marine surveys. Landscape character assessments are an essential pre- requisite to effective landscape impact assessment.

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<sup>37</sup> <http://www.scotland.gov.uk/Publications/1999/10/pan58-root/pan58>

## Box

C.6.1 Avoids these common problems and pitfalls in baseline information

- Reliance on existing recorded data only.
- Insufficient time to conduct surveys at appropriate seasons/times.
- Inadequate expertise in surveys.
- Lack of understanding of what information is needed to inform the EIA process.
- Inadequate resources for baseline surveys leading to incomplete or inept results.
- Use of out of date material.
- Lack of verification of collated information.
- Omission of important information that is available/obtainable.
- Lack of an adequate national/regional context, e.g. of Landscape Character Types.
- Too narrow a focus on the site, paying insufficient attention to landscape, natural features, processes or influences of surrounding land.
- Use of inappropriate techniques or inappropriate application of appropriate methods of survey e.g. landscape character assessment, NVC, Phase 1 Habitat Surveys etc.
- Concentration on the easier aspects of survey e.g. birds and mammals, whilst ignoring difficult ones such as invertebrates or bryophytes which may be better indicators of environmental conditions.
- Inadequate acknowledgement of data limitations.
- Omission, lack of understanding or misrepresentation of designations, their purpose, reasons for designations and implications.

## Box

C.6.2 Baseline Information:

- Thorough scoping of baseline data requirements and available information.
- Consultation and agreement on survey subjects, methods and emphasis.
- Use of best available information.
- Identification of influences on baseline information that would lead to change in absence of the project.
- Recruitment to the EIA team, temporarily if necessary, of people with skills and experience of field surveys in all relevant fields.
- Correct timing of surveys with adequate timescales to record variations in differing circumstances.
- Careful verification and validation of existing records with an appropriate balance between use of documentary and field survey material.
- Inclusion of likely changes that would be brought about by other projects already consented but not yet implemented.
- Consideration of baseline information which would contribute to assessment of cumulative, offsite, indirect impacts, etc.
- Clear identification and agreement as to the appropriate level of detail of surveys and information gathering.
- Relating all baseline studies to their relevance to the nature, size, duration and location of the project to ensure all relevant information is collated without submerging it in a volume of irrelevant or over-detailed information.
- Early recognition of gaps in information and limitations in data that can be collated and how these will be dealt with in the Environmental Statement.

Box

C.6.3

### Field Surveys

Key information

The proposer should undertake field surveys in every case where natural heritage effects are likely to be significant or effects cannot be predicted at the scoping stage. Where relevant: landscape and visual surveys; habitat and species surveys; surveys of natural features and processes and outdoor recreation/access surveys will be essential to adequately inform landscape, visual, ecological, marine, earth heritage and outdoor recreation impacts in Environmental Statements.

- C.6.6 Where a long lead time on the Environmental Statement allows, it may be possible to monitor changes in existing conditions prior to the submission of the Environmental Statement. This would allow trends in ecological or landscape change or marine or other natural processes to be investigated and should be encouraged, although it is rarely possible to do this.

### Integrating Natural Heritage Issues

- C.6.7 Owing to the different professional skills involved, it is common practice in Environmental Statements to address natural heritage issues separately, for example:-

- Landscape and Visual Impacts
- Ecological Impacts
- Impacts on the Marine Environment, Marine Systems and Coastal Processes
- Cultural Heritage: Historic Gardens and Designed Landscapes
- Geological and Soil Impacts: Earth Heritage
- Public Amenity/Recreation Impacts: Outdoor access

- C.6.8 In many Environmental Statements even these sections or chapters can be subdivided, each being written by a separate author with specialist knowledge of, for example, aquatic or terrestrial ecology. In order to ensure authoritative assessment the practice of different authors each presenting their conclusions should be encouraged, but the Environmental Statement team co-ordinator should ensure that all of these differing elements are consistent and drawn together in an integrated and understandable presentation.

Box

C.6.4

### The Approach to Baseline Information

Key advice

When discussing or commenting on a (draft) Environmental Statement, Competent Authorities and consultees should encourage rigorous assessment by appropriately qualified and experienced professionals, with specialists used where appropriate, and the facility in the Environmental Statement for all of their respective assessments to be clearly and consistently set out.

However, Competent Authorities and consultees should also encourage an integrated approach to natural heritage issues. The interrelationships between landscape, visual, terrestrial, aquatic and marine ecological and earth heritage information and the implications for the enjoyment of, access to and better appreciation of the natural heritage should be clearly set out.

Competent Authorities and consultees should encourage different aspects of the natural heritage to be assessed on a common basis wherever possible. For example landscape and ecological assessments may be able to use the same broad scales of significance so the significance of the different effects on the natural heritage can be directly compared.

C.6.9 It is possible, and in many cases even likely, that baseline conditions reported in an Environmental Statement may change by the time the project is commenced on site, or becomes operational. This should, where possible, be anticipated in the Environmental Statement by predicting future change in absence of the project. However, additional projects may have come forward and received consent or even have been constructed before the subject project is undertaken, owing to different lead times and consenting procedures. Where projects A or B are subject to applications for consent at the time of preparation of the Environmental Statement for project C, the statement should assess the effects of baseline plus project C; the effects of the baseline plus project A + project C; baseline plus project B + project C; and baseline plus projects A + B + C; and so forth. The Competent Authority should be consulted about the combinations of projects to be assessed.

## C.7 Predicting environmental impacts

[See also Figure 3, Sections C.3, C.4 and Appendices 1 - 6]

### Stage and Step in the EIA Process

Stage	Step
Stage 1: Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
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	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	<b>C7 Predicting environmental impacts</b>
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
Stage 2: Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
Stage 3: Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.7.1 A prediction of environmental effects must be included in an Environmental Statement so this is a necessary procedure for the proposer. Guidance on this stage is also provided in PAN 1/2013<sup>38</sup> at paragraphs 4.10.

### Impact Prediction

- C.7.2 Predicting and describing significant environmental impacts is a statutory requirement to include in an Environmental Statement, reference is made to C.4 above and Appendices 1 - 6 of this Handbook.
- C.7.3 Predicting the effects of a proposed project is a fundamental stage in EIA. One of the main purposes of the Environmental Statement is to clearly explain what the impacts of a proposal would be. The impacts should always be included in the non-technical summary in a way that is understandable to the general public. However, this is not always easy in respect of natural heritage implications.
- C.7.4 Predicting environmental impacts involves two main elements of work:
- Anticipating, modelling, predicting or forecasting the changes that would be brought about by the project at all of its life stages, often compared to baseline, and/or predicted changes without the project see C.8.4 below; and
  - Explaining, in a rational, consistent, impartial and transparent way, the significance of the changes.
- C.7.5 The results of changes or other effects of the project are usually referred to as “impacts”.
- C.7.6 The effectiveness of impact prediction in Environmental Statements varies considerably. Given the constraints of sometimes inadequate available information, the evolving nature of modelling and predictive techniques, the lack of understanding as to how the environment may respond to some impacts and the extensive reliance of the process on professional judgment, it is not surprising that this element of the EIA process has been widely criticised. Research (references 12, 16 and 17) shows a more rigorous and more impartial assessment of predicted effects in many Environmental Statements since 1992. The trend has been one of improvement, but some Environmental Statements are still weak in this area.
- C.7.7 Appendices 1 - 6 of this Handbook contain more detailed advice on best practice techniques for predicting impacts and assessing and explaining their significance. It is likely that Competent Authorities will need specialist advice in respect of some aspects of EIA, from the consultation bodies and others.
- C.7.8 Different effects may be experienced at different stages in a project’s life (e.g. site preparation, construction, operation, decommissioning or restoration (see also Figure 4)). The Environmental Statement should clearly set out the effects on the natural heritage and their interrelationships with each other and with other environmental effects.

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<sup>38</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

Box  
C.7.1

Key advice

### The Approach to Impact Prediction

Competent Authorities and consultees should adopt a practical and rational approach to commenting on the effectiveness of impact prediction. If they are unable to support the findings, criticism should be focused on key issues rather than detail. As a minimum Competent Authorities and consultees should try to ensure that an Environmental Statement fairly and consistently describes:

- (a) the sensitivity of the environmental resource;
- (b) the magnitude of change in absolute terms where possible and relative terms elsewhere;
- (c) the likelihood of the impacts occurring;
- (d) the certainty with which impacts have been identified;
- (e) the comparison with the do nothing alternative (see C.8.4 below) and other alternative solutions that are feasible and practical; and
- (f) the significance of the impacts based on the factors (a) - (d) above.

Box  
C.7.2

Key information

### Types of impact

The effects of a proposal may be:-

- |   |                              |
|---|------------------------------|
| – predictable or unpredictable                | – direct or indirect         |
| – positive (beneficial) or negative (harmful) | – temporary or permanent     |
| – short, medium or long-term                  | – immediate or delayed       |
| – one-off, intermittent or continuous         | – certain or uncertain       |
| – avoidable or unavoidable                    | – reversible or irreversible |
| – localised or widespread                     | – small or large             |
| – individual or cumulative                    |                              |

and therefore may be significant or of no consequence.

C.7.9 This will usually require factual information. Prediction of impacts should be as objective and, where possible, as quantified as possible. However, there will often be uncertainties so a range of potential results may need to be considered with an explanation about the nature of the uncertainties associated with predictions.

C.7.10 The Information required for impact prediction will generally include:

- The likelihood of the impact occurring at the magnitude anticipated;
- The likely duration of the impact and whether it would be continuous, intermittent, immediate or delayed;
- The extent to which the impact could be reversed;
- The feasibility and effectiveness of any measures designed to mitigate the impact;
- The cumulative effects of different impacts in this project;
- The cumulative effects of the same or different impacts in this and other projects; and
- The risk and effects of unscheduled, emergency or accidental events and the effects of the resulting activity.

C.7.11 The magnitude of change should generally be expressed in absolute terms and relatively in terms of percentage change to habitat area or species population or net gains and losses of important landscape features. Given the likelihood of uncertainties, the degree of confidence in



the predictions as to the magnitude of effects should also be indicated. The status of the site will generally be a factual expression of the international, national, regional or local importance of landscape, habitats or species. The sensitivity of the landscape, habitats and species will require a professional and sometimes subjective judgement, usually taking account, for example, of the distribution, population, rarity or vulnerability to change of the habitats and species in nature conservation terms and the vulnerability of landscapes to loss of local character or distinctiveness

C.7.12 By way of example, Figure 5 is an illustration of a matrix showing the magnitude of changes in the landscape. Landscape impact magnitude is based, amongst other things, on the extent of change to the landscape resource, the duration, scale and nature of the change and the impact of the change on the character of the landscape and its tolerance for accommodating change. This is an example only, each EIA will require its own matrix designed to meet the particular circumstances.

C.7.13 The impacts should be considered in the light of any information available or reasonably obtainable about the capacity of environments to accommodate change. Limits of acceptable change can sometimes be defined and these are particularly relevant to EIA procedures.

**Figure 5 – Example of Scale of Magnitude of Changes to the Landscape Resource**

<b>Substantial magnitude</b>	Significant changes, over a significant area, to key characteristics or features or to the landscape's character or distinctiveness for more than 2 years.
<b>Moderate magnitude</b>	Noticeable but not significant changes for more than 2 years or significant changes for more than 6 months but less than 2 years, over a significant area, to key characteristics or features or to the landscape's character or distinctiveness.
<b>Slight magnitude</b>	Noticeable changes for less than 2 years, significant changes for less than 6 months, or barely discernible changes for any length of time.
<b>Negligible or no change</b>	Any change would be negligible, unnoticeable or there are no predicted changes.

C.7.14 Where limits cannot or should not be defined, a broader approach, assessing the capacity of habitats or landscapes to accommodate change, in more general, relative terms could be used. The SNH national programme of Landscape Character Assessments is a particularly important resource contributing to the EIA process. These assessments should be used in every case. They are likely to be the best available baseline information for landscape assessment and the most authoritative source of comment on the sensitivity of landscapes, based more on their character and distinctiveness. Assessment should focus on landscape character rather than designations, although designations will need to be considered in the light of their policy implications (see [Section C.6](#) above).

## C.8 Assessing the significance of impacts

[See also Figure 3, Sections C.3, C.4 and C.7 and Appendices 1 - 6]

### Stage and Step in the EIA Process

Stage	Step
Stage 1: Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	<b>C8 Assessing the significance of impacts</b>
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
Stage 2: Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
Stage 3: Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.8.1 The Environmental Statement should include a description of the nature, scale and significance of the effects, so this is a necessary procedure for the proposer. It will also be a necessary procedure for consultees to consider the significance of the effects in order to make representations to the Competent Authority. Guidance on this stage is also provided in PAN 1/2013<sup>39</sup> at paragraphs 4.10.

### The Significance of Impacts

- C.8.2 Assessing the significance of impacts relies, at least in part, on value judgements, including placing weight or value on the environment likely to experience the change. The significance of impacts at this stage should relate back to the impacts deemed to be significant at the scoping stage (section C.4 above). It is also possible that new environmental effects may come to light in the assessment process because it should be iterative. Essentially, the EIA was undertaken to address impacts that were then deemed to be significant, so it should have revealed the impacts that will occur and how important they will be.
- C.8.3 The significance of change is also related to the duration, timing and extent of effects, the degree of certainty in the prediction of impacts and the likelihood of irreversible changes occurring. For example, an effect which is unlikely, or the likelihood of which is uncertain, may nevertheless be significant if it would be a very serious or irreversible adverse effect, if it did occur. This is the basis of the “precautionary principle”, see Section E.1 below.
- C.8.4 The significance of the effects of a proposed development should be considered in the context of changes that will occur regardless of whether the project goes ahead or not, the “do nothing alternative”. The “do-nothing” comparison, or in some cases, such as road improvements, the “do-minimum” comparison, is a projection of the existing data to provide a baseline for comparison to show how the site would change if the project did not go ahead. The “do-nothing” comparison examines trends currently occurring at the site, including likely management, land use changes, effects of climate change (e.g. species migration) or other interventions, and assesses the significance of these changing conditions. The “do-nothing” comparison, however, should be used in a reasonable way. It should genuinely predict likely change, on a realistic basis, for example by including the effects of projects which already have consent but are not yet implemented. It should not take the best possible comparison for the purpose of the Environmental Statement, in order to try to demonstrate that the project proposed would have less adverse, or even beneficial, effects over a “do nothing” prediction that is not likely to materialise.
- C.8.5 Alternative solutions, if the project went ahead in a different form or at a different location, should normally be considered. This will reveal the full picture of the project’s effects and the least damaging option. If alternatives have been considered they should be included in the Environmental Statement with an explanation as to why they were rejected.

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<sup>39</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

**Factors Affecting Significance of Impacts**

The significance of an impact is derived from an analysis of:

- The sensitivity of the environment to change, including its capacity to accommodate the kinds of changes the project may bring about;
- The amount and type of change, often referred to as the impact magnitude which includes the timing, scale, size and duration of the impact;
- The likelihood of the impact occurring - which may range from certainty to a remote possibility;
- Comparing the impacts on the environment which would result from the project with the changes that would occur without the project- often referred to as the “do- nothing” or “do minimum” comparison; and
- Expressing the significance of the impacts of the project, usually in relative terms, based on the principle that the more sensitive the resource, the more likely the changes and the greater the magnitude of the changes, compared with the do nothing comparison, the greater will be the significance of the impact.

C.8.6 A matrix can be used for considering the significance of impacts. This may combine the work previously undertaken for the assessment in respect of baseline information about the resource and impact prediction. The sensitivity of the resource can be analysed from the baseline information and may be summarised and classified in a matrix, an example of which is given in Figure 6 below.

**Figure 6 – Example of Scale of Sensitivity of Landscape Receptors**

<b>High Sensitivity</b>	Key characteristics and features, identified by systematic landscape character assessment, which contribute significantly to the distinctiveness and character of the landscape character type. Designated landscapes e.g. National Parks, NSAs and AGLVs and landscapes identified as having low capacity to accommodate proposed form of change.
<b>Medium Sensitivity</b>	Other characteristics or features of the landscape that contribute to the character of the landscape locally. Locally valued landscapes which are not designated. Landscapes identified as having some tolerance of the proposed change subject to design and mitigation etc.
<b>Low Sensitivity</b>	Landscape characteristics and features that do not make a significant contribution to landscape character or distinctiveness locally, or which are untypical or uncharacteristic of the landscape type. Landscapes identified as being generally tolerant of the proposed change subject to design and mitigation etc.

C.8.7 The significance matrix can combine the information about the sensitivity of the resource, in this case the landscape resource, with the information previously compiled about the magnitude of impacts, of the kind shown in Figure 5 above. Combining the two sets of analysis, from Figures 5 and 6, enables a simple matrix of significance to be compiled as shown in Figure 7.

**Figure 7 – Example of a Matrix Showing Impact Significance Related to Sensitivity and Magnitude of Change**

Sensitivity of environmental receptor	Magnitude of Change			
	Substantial	Moderate	Slight	Negligible/None
High	Major	Major	Moderate	Negligible/None
Medium	Major	Moderate	Minor	Negligible/None
Low	Moderate	Minor	Minor	Negligible/None

C.8.8 The construction of the matrix for weighing the significance of landscape and visual impacts should be adapted to fit individual cases or types of cases. For example, a significance matrix for natural heritage impacts may look like the example in Figure 7. The impacts are individually ranked for their significance on the basis of the sensitivity of the resource and the magnitude of the change, a high sensitivity resource and high magnitude of change would result, self-evidently, in an impact of major significance. It is suggested that shaded impacts of major or moderate significance, in Figure 7, would be changes that would be regarded as likely significant effects in the EIA process, which at screening stage would trigger the submission of an Environmental Statement.

C.8.9 Beneficial and adverse impacts should be treated in the same way.

Box

C.8.2

Key advice

**The Approach to Impact Significance**

Competent Authorities and consultees should ensure that all Environmental Statements:

- clearly set out the sensitivity of the natural heritage resource;
- the magnitude and likelihood of change, compared with at least the baseline information but preferably compared with the do nothing or do minimum alternative; and
- explain the significance of all relevant impacts on the natural heritage in a systematic, impartial, consistent and rational way that is clearly described in the Environmental Statement.

C.8.10 Predicting impact significance is partly objective and partly subjective. It relies on the professional judgement of landscape architects, ecologists and others who may place varying weight on the many factors involved. This naturally leads to differences of opinion. The Environmental Statement should therefore set out the basis of these judgements so that others can see the weight attached to different factors and can understand the rationale of the assessment. The Environmental Statement should clearly explain how the impact significance has been derived.

### Comments on Significance

Consultees should not seek to criticise an Environmental Statement merely because it expresses conclusions which do not accord with their conclusions.

Wherever possible, comments should identify why the conclusions are different so the Competent Authority may judge the basis of the two different assessments.

Consultees should indicate how and where impact prediction in the Environmental Statement is inappropriate, e.g. where:

- inappropriate predictive techniques have been used;
- impacts have been omitted;
- the sensitivity of the resource is under-estimated, (e.g. insufficient attention has been paid to reasons why areas have been designated);
- any aspect of the timing, scale, size or duration of the impact has been omitted or inappropriately applied to the assessment;
- the impacts are not compared adequately or appropriately with the do nothing or other relevant alternatives; and
- the scale of impact significance is unclear, inconsistent, inappropriate or partial.

## C.9 Mitigating measures and enhancement

[See also Figure 3, Sections B.6, C.4, D.7, D.10, E.2 and Appendices 1 - 6]

### Stage and Step in the EIA Process

Stage	Step
Stage 1: Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	<b>C9 Mitigation measures and enhancement</b>
	C10 Presenting environmental information in the Environmental Statement
Stage 2: Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
Stage 3: Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.9.1 The Environmental Statement must include a description of the mitigation measures, so this is a necessary procedure for the proposer. It will also be a necessary procedure for consultees to consider the effectiveness of mitigation in order to make representations to the Competent Authority.
- C.9.2 Mitigation measures are a statutory requirement to include in an Environmental Statement, enhancement is not, reference is made to B.6, C.4 above and Appendices 1-6 of this Handbook. Guidance on this stage is also provided in PAN 1/2013<sup>40</sup> at paragraphs 4.14.

### Introduction

- C.9.3 One of the main purposes of EIA is to ensure that potentially significant environmental effects of proposed projects are avoided or reduced as far as possible or practicable. This can be achieved by many different measures which might include:
- locating the project so as not to affect environmentally sensitive locations;
  - using construction, operation and restoration methods or processes which reduce environmental effects;
  - designing the whole project carefully to avoid or minimise environmental impacts; and
  - introducing specific measures into the project design, construction, decommissioning and restoration that will reduce or compensate for adverse effects.

### Counter-acting measures

- C.9.4 In the EIA process it will be necessary to consider five potentially distinct kinds of counter-acting measures for the effects of a project on the environment as follows:
- Avoidance
  - Cancellation
  - Reduction
  - Remedial/Compensatory
  - Enhancement/Net Beneficial

- C.9.5 The word “mitigation” has developed a wider meaning and common usage in environmental assessment than its strict meaning related to reducing the severity of something. Mitigation can sometimes be used as a generic term for a wide range of counter-acting measures, all of which, as the Directive and Regulations prescribe, are intended to “prevent, reduce and where possible offset any significant adverse effect on the environment”. ‘Mitigation’ can be used to encompass measures intended to avoid, cancel or reduce adverse effects.

### Avoidance measures

- C.9.6 Are intended to stop or prevent effects from occurring, or to eliminate (completely remove or get rid of) the risk of them occurring, perhaps by relocating a project away from a sensitive area, or removing from a project the element that may cause an adverse effect. Successful avoidance measures mean there will be no adverse effect.

### Cancellation measures

- C.9.7 Are intended to completely neutralise or fully negate the adverse nature of effects. There will be an effect, but its negative outcomes will be cancelled out.

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<sup>40</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>



## Reduction measures

- C.9.8 These are mitigation measures in the narrower, but accurate, sense. They are intended to make effects smaller or less in amount, degree, size or likelihood, either by reducing the effect itself, or the likelihood of it occurring, or both. These measures may so reduce the adversity of the effect, or they become so unlikely, that they are no longer of concern. There will, nevertheless, be a residual effect, it may be necessary to check that the residual effects of one proposed change do not exacerbate the effects of others, by way of cumulative, combined or synergistic processes.

## Compensatory measures

- C.9.9 Are measures, only taken into account after a decision has been made, and intended to at least try to recompense, or otherwise make up for, or off-set, the adverse effects of a proposed change that could or would occur and would be of concern. Thus, an important negative effect is anticipated and environmental loss or harm is likely to occur. However, it has been decided that the project should nevertheless go ahead, and the compensatory measures try to make amends. The objective should be that the recompense is made in time to make good the environmental benefit or function that would be affected.

## Application of counter-acting measures

- C.9.10 These distinctions are not merely of academic interest. Avoidance, cancellation, reduction, and remedial or compensatory measures in the context of the EIA Regulations are all measures to prevent, reduce and where possible offset any significant adverse effect on the environment. They must, therefore, be included and described in every Environmental Statement (see sections B.6 and C.4 above). It should be noted, however, that they may need to be applied in specific and different ways in the context of the Conservation (Natural Habitats &c) Regulations 1994<sup>41</sup> and the Conservation of Habitats and Species Regulations 2010 as amended (see paragraph B.1.13 above), particularly in relation to compensatory measures. Enhancement, or net benefit, or new benefit, may be offered by the proposer.
- C.9.11 Often an Environmental Statement has claimed enhancement but the measures are not genuine enhancement because the loss or damage to the natural heritage is greater than the benefit of the “enhancement” proposed or the measures are more akin to compensatory measures.
- C.9.12 The distinction is also relevant to consultees. For example, a project may result in adverse ecological effects, on existing habitats, that cannot be mitigated, e.g. loss of an important peatland area but may also result in genuine landscape enhancement elsewhere. The one is not a compensation for the other. The loss and the benefit must be evaluated as separate issues. Likewise, a Competent Authority may need to weigh the significance of harm to the natural heritage perhaps with enhancement of other environmental conditions.
- C.9.13 Proposers are entitled to include environmental enhancement in their Environmental Statement. Whilst most Environmental Statements tend to focus on mitigation, proposers may perceive an opportunity to help to persuade a Competent Authority to grant consent by offering some form of enhancement, to tip the balance in favour of the project.
- C.9.14 In many cases there will be opportunities to encourage enhancement of the natural heritage, especially where the existing ecological interest is low or a landscape has been degraded. Mineral or waste restoration schemes and woodland planting schemes often offer potential for genuine enhancement where the harm to the natural heritage is insignificant.
- C.9.15 However, it should be borne in mind that enhancement cannot be insisted upon.

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<sup>41</sup> <http://www.legislation.gov.uk/ukksi/1994/2716/contents/made>

Box  
C.9.1

Key information

### Mitigation compensation and enhancement

**Mitigating measures** or mitigation are the measures taken to avoid, cancel or reduce adverse impacts of the project.

**Avoidance** measures eliminate or avoid any adverse impacts, and may include alternative or 'do nothing' options.

**Cancellation** measures nullify or cancel out the effects of a project before they can have a negative impact.

**Reduction** measures minimise or at least reduce adverse impacts of the project that have not been avoided or cancelled out.

**Remedial or Compensatory measures or compensation** are other measures taken to (at least try to) offset or compensate for residual adverse effects which have not been avoided, cancelled out or reduced to insignificant levels or risks.

**Enhancement/Net Benefit/New Benefit** is the genuine enhancement of the environmental interest of a site or area because adverse effects are limited in scope and scale, and the project includes improved management or new habitats or features, which are better than the prospective management, or the habitats or features present there now. There is, therefore, a net or new benefit to the natural heritage.

- C.9.16 The effectiveness of mitigation and other counter-acting measures, their reliability and certainty, and the commitment to ensuring their practical implementation should be addressed in the Environmental Statement (See [Section D.3](#)). The environmental effects of these measures themselves should also be assessed. Measures may have been added at a late stage and may not have been assessed in the Environmental Statement. The measures themselves may have significant environmental effects, for example through further habitat loss or by the obstruction of wildlife corridors or intrusion into the landscape or obstruction of views.

Box  
C.9.2

Key Advice

### The Approach to Mitigation

There is a well-established approach to the use of counter-acting measures.

Generally, Competent Authorities and consultees should promote a sustainable approach and give priority to:

- firstly avoiding or cancelling adverse impacts on the natural heritage; then
- minimising or at least reducing adverse effects on the natural heritage that have not been avoided or cancelled out; then
- compensating for the adverse effects that cannot be further reduced; and
- in parallel with this prioritised approach encourage opportunities to enhance the natural heritage.

- C.9.17 The effectiveness of measures such as habitat recreation, restoration, re-vegetation or habitat or species translocation should be considered on their merits in the circumstances of each case. However, bearing in mind the general experience of habitat and species translocation, this should normally be regarded as a last resort when destruction of individuals of the species is inevitable, that is, a rescue operation.

- C.9.18 Guaranteeing and committing to mitigation is a vital aspect of EIA procedures and mitigation measures should always be subject to legally enforceable commitments in the project application or related conditions and legal agreements, see further [section E.3](#) below.

# C.10 Presentation of information in the environmental statement

[See also Figure 3, Section B.6 and Appendices 1 – 6]

## Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	<b>C10 Presenting environmental information in the Environmental Statement</b>
<b>Stage 2:</b> Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- C.10.1 There are statutory duties on proposers to include certain matters in an Environmental Statement (see B.6 above). There are statutory powers for Competent Authorities to require the inclusion of certain matters in an Environmental Statement. However, the way in which these matters are presented in the Environmental Statement is a matter for the proposer, a non-statutory procedure, which may involve discussion with consultees.
- C.10.2 The Regulations do not specify how environmental information should be presented in an Environmental Statement, except to say that a non-technical summary must be included. In practice, non-technical summaries are often separately bound and more widely distributed and available. Guidance on this stage is also provided in PAN 1/2013<sup>42</sup> at paragraphs 4.22, 5.4 and 5.5. PAN 1/2013 suggests that the non-technical summary should focus on the key points of the ES, helping to direct decision-makers to the main findings of, and the mitigation measures proposed within, the ES.

### Presentation

- C.10.3 Presentation therefore depends largely on the importance of the various issues in the Environmental Statement. Where no significant natural heritage issues arise the Environmental Statement may simply refer to them in a general chapter on other environmental effects or information. Where natural heritage issues are significant they should be addressed to the extent necessary in the main body of the Environmental Statement, although larger Environmental Statements may have separate volumes containing detailed information about specific issues. Topic reports in Appendices are a common and accepted feature of Environmental Statements.
- C.10.4 The size of an Environmental Statement will depend on the range and complexity of issues and no standard size can be given. However, the Institute of Environmental Management and Assessment consider that Environmental Statements with less than 50 pages are usually regarded as inadequately detailed if more than one or two key topics are involved. Environmental Statements of more than 150 pages should only be necessary where the project has many environmental impacts and is of a large scale. Too much detail can distract and deter readers and make key issues difficult to appreciate.
- C.10.5 Environmental Statements are increasingly available on CD or DVD and distribution in this form is compliant subject to the caveats explained in paragraphs D.1.8 and D.1.9 below.

#### Box

#### Key Advice

- C.10.1 Environmental Statements should be compliant but proportional to the nature, scale and significance of effects; they should be rigorously edited, focused on key issues and should not contain so much detail that they distract readers from important environmental effects, or so lengthy and technical that they deter people from reading them.

<sup>42</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

## C.10.2 Presentation of Environmental Statements

Environmental Statements should be:

- adequate for the purpose but succinct and not over-detailed;
- clear and understandable;
- consistent in content and presentation across issues;
- well, but not lavishly, presented with the effective use of maps, diagrams, charts, drawings, illustrations, photographs, sketches, photo montages, tables and matrices to reduce text and explain complex issues and with summaries and key conclusions highlighted;
- scientifically sound, but with the minimum use of scientific and technical language, with glossaries and the use of common names for species and an annex for scientific nomenclature wherever possible;
- inclusive of source data to allow readers to interpret this for themselves but with detailed information in appendices or separate volumes to avoid cluttering the main text of the assessment;
- logical in its structure, presenting a clear description of the project, baseline information, prediction of effects and their significance, before mitigation measures, and then describing the mitigation measures and the residual effects of the project (including their significance) taking mitigation into account;
- free standing and not reliant on key information in another document especially if that document is not publicly available;
- based wherever possible on standard methods or standard forms of presentation that will be familiar at least to other specialists or professionals advising the Competent Authority.

## Part D

# Before submission of the environmental statement (and the project consent application)

# D.1 Submission of the environmental statement and project application

[See also Sections B.2 and E.2, Attachment A and Annexe 2]]

## Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
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	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	<b>D1 Submission of Environmental Statement and project application</b>
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Guidance

- D.1.1 The Competent Authority has a statutory duty to consult the consultation bodies and to publicise every Environmental Statement. The consultation bodies should respond in every case. The form of their response is not prescribed in the Regulations, which refer only to them making “representations”.

### The Competent Authority’s Role

- D.1.2 The Competent Authority is the body responsible for making the decision as to whether the project should be given consent, permission, a licence or other kind of authorisation. It may be the Scottish Ministers, a planning authority, SEPA or other statutory authorities such as the Forestry Commission.
- D.1.3 With regard to their duties in respect of an Environmental Statement a Competent Authority must:
- a) register and publicise the application and Environmental Statement as required by the Regulations and take account of any representations received from the public;
  - b) notify other bodies and consult in accordance with the Regulations and take account of any representations received;
  - c) not grant consent or other authorisation unless they have taken account of the environmental information;
  - d) if granting consent must record on the face of the permission or other authorisation that they have taken account of the environmental information; and
  - e) notify their decision in accordance with the Regulations.
- D.1.4 The Competent Authority is responsible for evaluating the Environmental Statement to ensure it addresses all of the relevant environmental issues and that the information is presented accurately, clearly and systematically. The Competent Authority should be prepared to challenge the findings of the Environmental Statement if it believes they are not adequately supported by scientific evidence. If it believes that key issues are not fully addressed, or not addressed at all, it must request further information. The authority has to ensure that it has in its possession all relevant environmental information about the likely significant environmental effects of the project before it makes its decision whether to grant permission. It is too late to address the issues after permission has been granted.
- D.1.5 The Competent Authority may also:-
- a) seek and take the advice or representations of bodies other than the statutory consultees;
  - b) require the proposer to submit further environmental information;
  - c) refuse the application;
  - d) grant consent subject to conditions or limitations over and above those set out in the Environmental Statement and the application.
- D.1.6 The proposer must submit sufficient copies of the Environmental Statement to the Competent Authority to enable them to undertake the statutory consultations plus five additional copies. In addition, three copies for the Scottish Ministers, one of which will be deposited in the Scottish Government library where a full collection of all Environmental Statements submitted in Scotland is available to the public.
- D.1.7 Under the provisions of regulations 38 to 40 of the principal regulations and regulation 47 of the Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013<sup>43</sup>, environmental statements and planning applications (and associated documentation), may be distributed electronically and (with the exceptions noted at D.1.8 below) notices under

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<sup>43</sup> <http://www.legislation.gov.uk/ssi/2013/155/contents/made>



the principal regulations will be deemed to have been given on condition that the electronic communication (e mail and attachment(s)) of the document (statement or notice):

- A] is capable of being accessed by the recipient; and
- B] is legible in all material respects, that is, it is as readable as if it were available to the recipient in hard copy (see regulation 38 of the principal regulations); and
- C] sufficiently permanent that it can be used for subsequent reference.

D.1.8 Electronic communication cannot be used in the EIA process in respect of a proposer serving any notice under regulation 17 of the principal regulations on those with an interest in neighbouring land, in respect of any transboundary consultation with other EC Member States or in respect of any projects in other Member States which are likely to have significant effects on the environment in Scotland.

D.1.9 Environmental Statements are increasingly available on CD or DVD and distribution in this form is compliant subject to the above caveats.

Consultees and the public need to be clear about the proposal applied for

D.1.10 In all cases, it is important that it is clear as to what the proposal is that is applied for. In granting consent, the Competent Authority will permit the proposal applied for as described in the application and the plans submitted with it (subject to any conditions or modifications); this may or may not be exactly the same as the proposal described and assessed in the environmental statement. It may be important to differentiate between information in the Environmental Statement about the proposal and information on the environmental impacts of the proposal. Where there is any discrepancy between information on the application plans and information in the environmental statement, it is the information in the plan that will normally prevail and which will be granted permission.

## D.2 Consultation and publicity

[See also Sections C.4, D.1 and D.8 and Annexe 2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	<b>D2 Consultation and publicity</b>
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- D.2.1 The Competent Authority has a statutory duty to consult the “consultation bodies”, and to publicise every Environmental Statement.
- D.2.2 The Regulations prescribe the procedures to be adopted by Competent Authorities in respect of consultations and publicity. Every Environmental Statement must be accessible to the public and must be publicised. Planning related Environmental Statements must be placed on deposit in the planning authority’s office for at least 4 weeks, and must be advertised by notices in newspapers to enable the public to make representations about the project and its environmental effects and to comment on the Environmental Statement. It is likely that publicity and consultation on the Environmental Statement and consultation under the planning legislation will be combined to provide the public with a single, accessible process to comment on the proposal. Neighbouring landowners, occupiers and lessees must also be notified (the principal regulations<sup>44</sup> Regs.17 - 22 also Circular 3/2011 paragraphs 113 - 121. Guidance on this stage is also provided in PAN 1/2013<sup>45</sup> at paragraph 4.21 and Table 1).
- D.2.3 In addition, to ensure compliance with the Directive, the Regulations require some Competent Authorities to consult certain bodies in respect of every Environmental Statement and other bodies in respect of particular types of Environmental Statement or where a project is in a particular type of location.

### The Statutory Consultees

- D.2.4 The statutory consultees (where they are not the Competent Authority making the decision) include:
- The Planning Authority
  - Adjacent planning authorities whose area may be affected
  - Scottish Natural Heritage
  - The Scottish Environment Protection Agency (SEPA)
  - Scottish Water
  - The Health and Safety Executive (but not for roads EIA)
  - The Scottish Ministers (Historic Scotland)
  - Other bodies designated by statutory provision as having specific environmental responsibilities and which the relevant planning authority or the Scottish Ministers, as the case may be, considers are likely to have an interest in the application, and
  - For marine fish farming any district salmon fishery board in whose area the proposed development is to be situated (Regulation 35 of the principal regulations).
- D.2.5 These Statutory Consultees have a duty to provide the proposer, on request, with any relevant information in their possession, which may assist in the preparation of the Environmental Statement, the principal regulations Reg.16(4), (see also C.5 above).
- D.2.6 The Regulations also require that Consultees are informed of the submission of an Environmental Statement in conjunction with a development application, supplied with a copy of the Environmental Statement, and given an opportunity to comment on its contents. Such comments should be supplied to the Competent Authority to assist in the decision. The time allowed to respond under the principal regulations is 4 weeks from the date of notice (which is considered here to be the date of receipt by them as there can be no notice until the consultation has been received).
- D.2.7 There is no statutory provision for consultation with members of the general public during the preparation of an Environmental Statement. Developers may, however, legally prepare an Environmental Statement without informing the Competent Authority or statutory consultees beforehand. If this occurs, the consultees must be informed upon the Authority’s receipt of the Environmental Statement. There are three obligations on proposers in this regard:

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<sup>44</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

<sup>45</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

- a] a notice should be placed in a local newspaper and in the Edinburgh Gazette by the planning authority advertising the deposit of the Environmental Statement and its availability and the proposer must pay the cost of this publicity;
- b] a reasonable number of copies of the Environmental Statement should be made available to the public (the principal regulations Reg.22) but a charge may be made;
- c] notice must be given to everyone with a legal interest in neighbouring land.

D.2.8 Electronic communication cannot be used for the notices served on those with a legal interest in neighbouring land, but the statement can be distributed electronically in accordance with the principal regulations (see further [D.1.7-8](#) above).

### **Further information and evidence**

D.2.9 See section D.6 below for the consultation arrangements in respect of 'further information' submitted after the original Environmental Statement. In essence, the additional material must be subject to the same consultation and publicity as the original Environmental Statement.

## D.3 Liaison with the competent authority and the developer

[See also, Sections C.4, D.1 and D.8 and Annexe 2

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	<b>D3 Liaison with the Competent Authority and the Proposer</b>
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- D.3.1 The Competent Authority has a statutory duty to consult the consultation bodies, and to publicise every Environmental Statement.
- D.3.2 Consultees should maintain such liaison with the Competent Authority as may be necessary in the circumstances of each case. Sometimes it will be sufficient to respond to the application and Environmental Statement in writing in one step. Often, however, there will be advantages in a dialogue between consultees and the Competent Authority and often the proposer too. EIA, at its best, is an interactive process with each of the main parties informing and influencing the others

### Box

D.3.1

#### Liaison

### Key advice

Dialogue and liaison between consultees, the Competent Authority and the proposer will generally improve understanding of the project, the environmental issues, the effects of the project and the views of the consultees. It will usually increase the effectiveness of the EIA process and the influence of consultees on the decision.

Correspondence between the proposer and consultees should normally be copied to the Competent Authority.

## D.4 Wider consultation and dissemination

[See also Sections B.1, D.1, D.2, and D.3 and Annexe 2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	<b>D4 Wider Consultation and dissemination</b>
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- D.4.1 The Competent Authority has a statutory duty to consult the consultation bodies, and to publicise every Environmental Statement. Guidance on this stage is also provided in PAN 1/2013<sup>46</sup> at paragraph 4.21 and Table 1.

### Wider Consultation

- D.4.2 It is a matter for the Competent Authority to decide who should be consulted beyond the statutory consultees. However, it is open to consultees to suggest or recommend that other bodies should also be notified or consulted. This is particularly important where other bodies are known to hold important and relevant information and/or expertise.
- D.4.3 Whilst it may be convenient to share copies of the application and Environmental Statement, copying Environmental Statements may be restricted by copyright; do not copy without the permission of the authors or proposer. Many consultants or proposers will supply further copies, either free or at a reasonable cost or other bodies could go to the locations where the Statement is lodged. Environmental Statements are increasingly available on CD or DVD and distribution in this form is compliant subject to the caveats in D.1.8 above.
- D.4.4 Where a consultee has involved other bodies their comments should be submitted separately. Even if the Competent Authority declined to consult them directly, the other bodies have a right to submit representations to the Competent Authority direct. Their representations must be taken into account, as environmental information in the meaning of the Regulations.

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<sup>46</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>



## D.5 Transboundary environmental effects

[See also Sections D.1, D.2, D.3 and D.4 and Annexe 2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1: Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2: Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	<b>D5 Transboundary environmental effects</b>
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3: Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- D.5.1 Guidance on the Government's procedures for transboundary EIA are given in paragraphs 132-134 of Circular 3/2011<sup>47</sup> and statutory requirements are in Regs.36 - 37 the principal regulations<sup>48</sup>.
- D.5.2 Electronic communication cannot be used for transboundary consultations see further [D.1.8](#) above.
- D.5.3 Where a Competent Authority considers that there may be transboundary effects arising from a project for which they are the deciding authority it must notify the Scottish Government forthwith, who will then take any action necessary to undertake transboundary consultations with another Member State. Similarly, in the event that the Government receives a consultation from another Member State about a project that may affect Scotland, it will consult the Competent Authorities and consultation bodies affected.

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<sup>47</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

<sup>48</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

## D.6 Requesting further information or evidence

[See also Figure 3, Sections C.3, C.4, D.7 and D.8, Appendices 1 – 6, Attachment A and Annexe 2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1: Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2: Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	<b>D6 Requesting more information or evidence</b>
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3: Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- D.6.1 The Competent Authority has the statutory power to require certain additional information to be submitted by the proposer under the provisions of each of the EIA regulations, for example, Reg.23 of the principal regulations<sup>49</sup>, see further Circular 3/2011<sup>50</sup> at paragraphs 127 - 131. Guidance on this stage is also provided in PAN 1/2013<sup>51</sup> at paragraphs 4.27 and 4.28).

### Requiring Further Information

- D.6.2 If important information, which could affect the outcome of the application, is absent or inadequate consultees should inform the Competent Authority as soon as possible. They should ask the Competent Authority to require the applicant to submit the information, and ask the authority not to determine the application until all of the necessary environmental information is available. Submission of the information may mean that environmental impacts of the proposal need to be re-assessed.
- D.6.3 It is important to obtain any further information via the Competent Authority; but, in exceptional circumstances, for example where that authority is slow or reluctant to request the information, consultees may approach the proposer directly. However, in such cases it is vital that the information is submitted to the Competent Authority, not just the consultee, in order that it can be publicised in the same way that the original Statement was publicised. Consultees should act expeditiously in requesting further information so that the decision making process is not unnecessarily impeded. Requests should normally be made during the routine consultation period, but a Competent Authority can ask for further information at any time before deciding the application.
- D.6.4 A consultee's advice is required primarily on whether the project should be consented or authorised and, if so, on what terms and conditions and if not, what the grounds of refusal should be. A consultee should not risk its views being too late to influence the decision merely because they are awaiting a response to a request for more information.

#### Box

D.6.1

#### Requests for Further Information

#### Key advice

If a consultee seeks more information this should generally be through the Competent Authority but, in exceptional circumstances, for example where that authority is slow or reluctant to request the information, the consultee may approach the proposer directly; however, in such cases it is vital that the information is submitted to the Competent Authority, not just the consultee, in order that it can be publicised.

Information should only be requested when it is essential, not merely desirable, to the decision on the project, or where it would influence conditions that may be imposed, or where it could influence a consultee's or a Competent Authority's views in a substantive way.

Requests for additional information should have regard to the feasibility and practicality of obtaining it and the timescale and cost.

- Requests should be reasonable.
- They should normally be made via the Competent Authority.
- They should be made promptly and in one step if possible.

<sup>49</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

<sup>50</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

<sup>51</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

- D.6.5 It is important to bear in mind that the costs and delays involved in obtaining and submitting additional information can be considerable. EIA is not an opportunity to obtain information that is desirable for other purposes, although information obtained as a necessity in an EIA case may, of course, contribute to environmental knowledge generally.
- D.6.6 Repeated requests for more and more information can be very frustrating to the proposer and Competent Authority and can indicate a lack of clarity of thought initially on the part of the body making repeated requests. However, it is reasonable to expect that, from time to time, new information may prompt an obvious need for yet further information.

### Requesting further information for Planning Applications

- D.6.7 In respect of full planning applications, the planning authority has the power to require information to be submitted under two statutory provisions, namely:
- a] Regulation 19 of the principal regulations, requiring submission of:
    - i. any further environmental information reasonably required to give proper consideration to the likely significant effects of the proposed development on the environment; or
    - ii. information concerning any matter which is required to be dealt with in the Environmental Statement (i.e. matters in Schedule 4 the principal regulations); or
    - iii. evidence to verify any information in the Environmental Statement; or
  - b] Regulation 24 of the Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013.
- D.6.8 When requesting planning authorities to require further information, reference can be made to the EIA regulations, the Development Management Procedure (Scotland) Regulations 2013, (the DMR), and paragraphs 127 - 131 of Circular 3/2011<sup>52</sup>.
- D.6.9 A request for further information on the planning application should be made under regulation 24 of the DMR. A request for further work on the EIA should be made under the EIA regulations. A clear distinction should be made wherever possible.
- D.6.10 If the applicant refuses to make available further information and/or the planning authority will not support a consultee's request, or the planning authority agrees with the applicant that further information is not necessary, the consultee will have to accept that the information will not be obtained. The result may be that they have no choice but to object to the application and, if necessary, ask that the case be referred to the Scottish Ministers for their own determination.
- D.6.11 A consultee should always take care to identify what further information is required and should be able to justify this request clearly. Most planning authorities will use their powers to require further information to be submitted rather than merely going straight for a refusal of permission.

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<sup>52</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

## D.7 Modifications to the project

[See also Sections C.9, D.6 and D.8, E.3 and E.4, Attachment A and Annexe 2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	<b>D7 Modifications to the project</b>
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Modifications

- D.7.1 The fact that a project is subject to the EIA process does not preclude modifications or amendments to it during the consideration of the application. These may be made during the EIA process, after the Environmental Statement has been submitted. Indeed, the iterative process of EIA is very likely to lead to consultees or the Competent Authority seeking changes to the proposals to avoid or further reduce environmental effects. Equally, the proposer may wish to make changes to help satisfy concerns expressed by the Competent Authority, consultees or the public.
- D.7.2 Where they would meet a consultee's concerns, modifications should be encouraged both before and after the consultation response has been submitted (indeed, it may be the consultation responses that initiate the discussions about modifications).
- D.7.3 It is open to a consultee, throughout the EIA process to negotiate modifications to a project via the Competent Authority. If necessary, the consultee can ask a proposer to modify the project if the Competent Authority will not require the proposer to do so (see D.6.5 above). However, if the proposer does agree to modify the project, it is vital that the modification is submitted formally to the Competent Authority. Modifications provided solely to the consultee, and not to the Competent Authority as an amendment to the application will not constitute any part of the application, nor will they constitute any part of the permission if granted.

Box  
D.7.1

### Negotiating Changes

Key advice

A consultee should consider whether to open negotiations, with the Competent Authority and / or the proposer, to affect changes to the proposals, if they conclude that:

- (g) more or different mitigation would be appropriate;
- (h) adverse effects could be avoided, cancelled, reduced or compensated, or
- (i) new benefits could be achieved.

- D.7.4 Most Competent Authorities take a practical approach. They accept modifications and ensure that it is clear which scheme is consented, if a consent is issued (e.g. by imposing a condition referring to revised plans). From a procedural point of view, whether the modifications can be accepted as an amendment, without a new application being made, is a decision for the Competent Authority alone.
- D.7.5 The key questions will be:
- a] whether the modifications are so extensive as to amount to a different project proposal - in which case a new application should be made; or
  - b] whether the modifications are significant but not extensive - in which case a new application is generally not required but the Competent Authority should re-consult and re-notify and re-publicise the proposal; or
  - c] whether the modifications are not so significant as to merit re-consultation and re-publicising generally, but may be appropriate for selected consultees to comment or whether no consultees need comment.
- D.7.6 Any substantive amendments or additions to the Environmental Statement, whether requested by the Competent Authority or submitted voluntarily by the proposer, must be publicised and consulted on in a similar way as the original statement. Regulation 24 of the principal regulations refers.

## D.8 Further information and supplementary environmental statements

[See also Sections B.4, D.1, D.6, D.7 and E.4, Attachment A and Annexe 2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	<b>D8 Further Information and Supplementary Environmental Statements</b>
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures



## Statutory Provisions and Government Guidance

- D.8.1 A Competent Authority has the statutory powers to require further environmental information to be submitted, for example in regulation 23 of the principal regulations<sup>53</sup>. This may be in the form of a Revised or Supplementary Environmental Statement or otherwise. However, it should be noted that submission of documents called Supplementary or Revised Environmental Statements is a convention, which often occurs in practice, but is not a statutory process or term. The principal regulations only refer to “further information” being required and submitted or to “any other substantive information...relating to any environmental statement” which is submitted voluntarily by the proposer.
- D.8.2 Where the Competent Authority has decided to accept a modification it will need to consider whether a new or revised or supplementary Environmental Statement is necessary. Essentially the question to be asked will be “is the project still the project that was assessed in the original Environmental Statement or a different project in ways that mean the effects of the project have not been adequately assessed?” The legal cases referred to in [Annexe 7](#) will be relevant here.
- D.8.3 The key point is that the final decision on the application must take account of the environmental information for that project, as it would be consented. It follows that it would not be appropriate to consider environmental information about another form of the project.

## Supplementary and Revised Environmental Statements

- D.8.4 A supplementary Environmental Statement is submitted where the original Environmental Statement was incomplete or further work on environmental effects has been undertaken, (whether or not the project has been modified since the original application and Environmental Statement were submitted). A supplementary Environmental Statement may be submitted, to add to the original, to ensure that all of the relevant environmental information is considered by the Competent Authority. The supplementary Environmental Statement may include a revision of the whole or part of the original document or additions that are needed to cover the further information. A supplementary Environmental Statement should make clear which parts of the original Environmental Statement are being supplemented, revised etc.
- D.8.5 Whatever the reason for the new or revised or supplementary Environmental Statement, the Competent Authority will subject it to publicity and consultation in the same way as the original Environmental Statement, for example, see regulation 24 of the principal regulations and Circular 3/2011<sup>54</sup> at paragraphs 127 - 131). Even if the further information is submitted voluntarily the Competent Authority must follow the publicity and consultation requirements where the information is of a substantive nature. If further or additional environmental information is submitted as part of an appeal procedure, it will need to be publicised and consultees notified, so that their advice can be submitted to the Reporter before a decision is made or before an Inquiry opens. An exception to the publicity requirements under the principal regulations is made in situations where the additional information is provided for the purposes of a planning inquiry, the request for the additional information states that it is to be provided for the purpose of an inquiry and the additional information is required to be publicised as part of the inquiry.
- D.8.6 Revised Environmental Statements may be submitted where the original needs extensive or partial revision. They are treated as further environmental information under the regulations, in the same way as supplementary Environmental Statements.

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<sup>53</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

<sup>54</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

## Deciding about Submissions

- D.8.7 Deciding the extent to which environmental information should be re-submitted as a result of modifications to the project is sometimes difficult to ascertain. There are no statutory provisions for procedures and a Competent Authority may need help from the consultees in deciding whether
- a] the project is so extensively different that a new application and new Environmental Statement is required; or
  - b] the project is significantly different and the Environmental Statement should be revised (with consultation on the revision) or added to by a supplementary Environmental Statement (with consultation following); or
  - c] the project and its environmental effects are not so significantly different as to invalidate the original Environmental Statement and consultation and publicity responses about the original documentation will remain valid.
- D.8.8 Like the decision on whether to require an Environmental Statement in the first instance, the decision as to whether a new or supplementary or revised Environmental Statement is required, and the procedures for dealing with the submission, consultation, publicity etc., are all a matter for the Competent Authority.

### Box

D.8.1

How a Competent Authority deals with revisions or supplementary information is a matter for the Competent Authority. However, it will need to comply with the regulations in respect of publicity and consultation in respect of all further information or any other information submitted, whether it is submitted as a supplementary or revised Environmental Statement or in any other form.

### Key advice

## D.9 Reviewing the environmental statement

[See also Sections D.10, E.1, E.2, E.3 and E.4, Appendices 1 – 6, Attachment A and Annexe 2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1: Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2: Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	<b>D9 Reviewing the Environmental Statement</b>
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3: Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4: Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- D.9.1 The Competent Authority has a statutory duty to consider the environmental information before granting consent to any project subject to the EIA process.
- D.9.2 PAN 1/2013<sup>55</sup> provides useful guidance on this stage, paragraphs 4.23 - 4.26 discuss the process of evaluation of the Environmental Statement and its review.

## Reviewing Environmental Statements

- D.9.3 In addition to the advice in Scottish Government guidance, the Circular and PAN 1/2013, this Handbook includes Attachment A which is a review package for the scoping and reviewing of an Environmental Statement. These are intended to be helpful working tools for adaptation by users to meet particular circumstances. They will hopefully assist in a more systematic and logical approach to these stages for EIA. They are not intended either to replace any existing formal review procedures undertaken by Competent Authorities or consultees, or to establish inflexible or standardised approaches to good practice. Users are positively encouraged to extend, reduce or otherwise adapt the frameworks suggested to suit particular needs.
- D.9.4 The guidance published by the EC<sup>56</sup>, including their EIS Review Checklist, may also be helpful during the review of an Environmental Statement.

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<sup>55</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

<sup>56</sup> <http://ec.europa.eu/environment/eia/eia-guidelines/g-review-full-text.pdf>

## D.10 Formulating a consultation response

[See also Sections C.9, D.9, E.1, E.2, E.3 and E.4, Appendices 1 – 6, Attachment A and Annexe 2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	<b>D10 Formulating a Consultation Response</b>
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Consultee's Role

- D.10.1 Consultees will review the Environmental Statement and comment on the application for the proposal. Consultees may assist the Competent Authority and advise on the adequacy and conclusions of the environmental information.

## Statutory Provisions and Government Guidance

- D.10.2 The Competent Authority has a statutory duty to consider the environmental information before granting consent to any project subject to the EIA process (e.g. Reg.3 the principal regulations<sup>57</sup>). Consultees should also provide advice to the Competent Authority on matters within their remit, where advice is requested. A consultee's response is a part of the environmental information that the Competent Authority must consider (e.g. Reg.2 the principal regulations).

## The Consultation Response

- D.10.3 Whilst the consultee's comments on the Environmental Statement and the letter making representations about the project itself are separate things, the representations about the acceptability of the project will clearly be informed and supplemented by the information in and comments on the Statement. Reference is made to [section C.9](#) above, relating to requests for mitigation, even if the project, in principle, is acceptable.

Box

D.10.1

### The Environmental Information

Key information

It should be stressed that the environmental information is not just the Environmental Statement submitted by the proposer, but also any additional information submitted by the proposer, the comments of the statutory consultees and the public when received by the Competent Authority.

- D.10.4 Therefore, the comments of a consultee should cover matters which it considers important which have been omitted from the Environmental Statement, as well as those which have been covered by the document. All of this information must be considered by the Competent Authority, and should be material to their decision. Indeed, research (12) and (19) found that responses by consultees were usually given more weight in the Competent Authority's decision than the Environmental Statement on which they were based.
- D.10.5 The consultee should provide its own evaluation of the importance of impacts. This should address whether the affected resource is of international, national, regional or local importance, and the degree to which the impact will affect the resource.
- D.10.6 It should be noted that the comments on the contents of an Environmental Statement are, technically speaking, distinct from the consultee's formal response to the application for development consent. The consultee's comments on the Environmental Statement are considered to be environmental information which inform the authority in its decision, whereas the response to the application is the consultee's view as to the best course of action available to the authority and the extent to which this view is, or is not, supported by the Environmental Statement.
- D.10.7 Thus, the consultee's comments on an Environmental Statement might be to the effect that the Environmental Statement accurately describes the impacts of a proposal, that the consultee agrees with the Environmental Statement that these impacts are significant and that the mitigation measures proposed in the Environmental Statement would not adequately address these impacts, although a modification of them would do so. The consultee's response to the application would therefore be that it advises against granting consent to the proposal because

<sup>57</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

of the significant natural heritage impacts detailed in the Environmental Statement, but would be minded to lift this objection if the suggested modified mitigation measures were incorporated into the conditions for the consent.

**Key advice**

**Box**

D.10.2

**Representations**

Comments should cover the following points:

- the accuracy of the Environmental Statement (especially baseline information and the prediction of impacts);
- the coverage of the Environmental Statement - whether there are important omissions, and whether the emphasis on the different impacts is appropriate;
- with respect to omissions of matters which the consultee considers to be important: the issues involved and further work required to address them;
- the level of confidence that the consultee has in the findings (including the degree of uncertainty);
- whether the consultee agrees with the evaluation of significance of the impacts identified;
- whether the mitigating or compensatory measures are satisfactory or not; and
- the adequacy of proposals in the Environmental Statement for monitoring impacts and responding to them.

In cases where the Environmental Statement is of a particularly poor standard, it may be appropriate for the consultee to make only a general, not a detailed response.

**Key advice**

**Box**

D.10.3

**Response to Consultations:  
The Project and the Environmental Statement**

It is advisable to distinguish clearly between the two parts of a consultee's response to an application, by stating the formal response to the application in a covering letter, and appending comments on the Environmental Statement in an annex.

# D.11 Planning permission in principle and approval of matters specified in conditions

## Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> Before Submission of the Environmental Statement	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> Submission of Environmental Statement and Consideration of Environmental Information	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	<b>D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions</b>
<b>Stage 3:</b> Making the Decision	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> Implementation [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures



## Introduction

- D.11.1 This section draws together commentary and advice about how the former outline planning applications and approval of reserved matters were considered to be ‘multi-stage consents’ and thus EIA procedures could apply at any stage if necessary. The same principles apply to applications for planning permission in principle introduced from August 2009, and their subsequent applications for approval, consent or agreement.<sup>58</sup> Further relevant advice is found in sections B.4, C.4 and D.6 above.

## Applying the EIA Regulations to Applications for Permission in Principle

- D.11.2 Where it applies, the Directive requires EIA to be carried out prior to the grant of “development consent”. Development consent is defined as “the decision of the competent authority or authorities which entitled the proposer to proceed with the development”. Under the UK planning system, it is the planning permission that usually enables the applicant to proceed with the development, but in the case of outline permissions and planning permissions in principle, development cannot begin until further approvals are obtained, so making the process a multi-stage consent. Consequently, the courts have ruled, as discussed below, that EIA can apply to the applications for the approval of reserved matters following the grant of outline planning permission, and by implication, to approvals of matters specified in conditions.
- D.11.3 In the first place, the planning permission and the conditions attached to it must be designed to prevent the development from taking a form - and having effects - different from what was considered during EIA. This was confirmed in the case of *R v SSSLR ex parte Diane Barker* (2001).
- D.11.4 The cases of *R v Rochdale MBC ex parte Tew* (1999) and *R v Rochdale MBC ex parte Milne* (2000) set out the approach that planning authorities need to take when considering EIA in the context of an application for outline planning permission if they are to comply with the Directive and the Regulations. Both cases dealt with a legal challenge to a decision of the authority to grant outline planning permission for a business park. In both cases an Environmental Statement was provided. In *ex parte Tew* the Court upheld a challenge to the decision and quashed the planning permission. In *ex parte Milne*, the Court rejected the challenge and upheld the authority’s decision to grant planning permission.
- D.11.5 In *ex parte Tew*, the authority authorised a scheme based on an illustrative master plan showing how the development might be developed, but with all details left to reserved matters. The Environmental Statement assessed the likely environmental effects of the scheme by reference to the illustrative master plan. However, there was no requirement for the scheme to be developed in accordance with the master plan and in fact a very different scheme could have been built, the environmental effects of which would not have been properly assessed. The Court held that description of the scheme was not sufficient to enable the main effects of the scheme to be properly assessed, in breach of Schedule 4 of the Regulations.
- D.11.6 In *ex parte Milne*, the Environmental Statement was more detailed; a Schedule of Development set out the details of the buildings and likely environmental effects, and the master plan was no longer merely illustrative.
- D.11.7 Conditions were attached to the permission “to tie the outline permission for the business park to the documents which comprise the application”. The outline permission was restricted so that the development that could take place would have to be within the parameters of the matters assessed in the Environmental Statement. Reserved matters would be restricted to matters that had previously been assessed in the Environmental Statement. Any application for approval of reserved matters that went beyond the parameters of the Environmental Statement would be unlawful, as the possible environmental effects would not have been assessed prior to approval

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<sup>58</sup> <http://www.legislation.gov.uk/ssi/2013/155/contents/made>

- D.11.8 The Judge emphasised that the Directive and Regulations required the permission to be granted in the full knowledge of the likely significant effects on the environment. This did not mean that developers would have no flexibility in developing a scheme. But such flexibility would have to be properly assessed and taken into account prior to granting outline planning permission (now permission in principle).
- D.11.9 He also commented that the Environmental Statement need not contain information about every single environmental effect. The Directive refers only to those that are likely and significant. To ensure it complied with the Directive the authority would have to ensure that these were identified and assessed before it could grant planning permission.
- D.11.10 The Court of Appeal in *ex parte Diane Barker* (2001) confirmed this approach and there are some general conclusions that can be drawn about applications for planning permission in principle:
- a] An application for a “bare” permission in principle, with all matters specified in conditions for later approval, consent or agreement is extremely unlikely to comply with the requirement of the Regulations;
  - b] When granting permission in principle, the permission must be “tied” to the environmental information provided in the Environmental Statement, and considered and assessed by the authority prior to permission being granted. This can usually be done by conditions although it would also be possible to achieve this by a planning agreement (under section 75 of the Town and Country Planning (Scotland) Act 1997).
  - c] An example of a condition was referred to in *ex parte Milne* (2000): “The development on this site shall be carried out in substantial accordance with the layout included within the Development Framework document submitted as part of the application and shown on (a) drawing entitled ‘Master Plan with Building Layouts’”. The reason for this condition was given as “The layout of the proposed Business Park is the subject of an Environmental Impact Assessment and any material alteration to the layout may have an impact which has not been assessed by that process.” (see paragraphs 28 and 131 of the judgment);
  - d] Developers are not precluded from having a degree of flexibility in how a scheme may be developed. But each option will need to have been properly assessed and be within the remit of the permission in principle;
  - e] Development carried out pursuant to a subsequent approval, consent or agreement for a matter that does not fall within the remit of the permission in principle will be unlawful, unless the application for approval, consent or agreement under the condition was itself subject to EIA.
- D.11.11 Circular 3/2011<sup>59</sup> paragraphs 144 - 146 provide the following advice on outline applications:
- "In cases where a consent procedure comprises more than one stage (a ‘multi-stage consent’), one stage involving a principal decision and the other an implementing decision which cannot extend beyond the parameters set by the principal decision, the European Court of Justice has made clear that the effects which a project may have on the environment must be identified and assessed at the time of the procedure relating to the principal decision. (Cases C-201/02 and C-508/03 refer.) However, the courts have equally made clear that if those effects are not identified or identifiable at the time of the principle decision, assessment must be undertaken at the subsequent stage.
- If sufficient information is given with the application for planning permission (whether an application for planning permission in full, or for planning permission in principle), it ought to be possible for the authority to determine whether the EIA obtained at that stage will take account of all potential environmental effects likely to follow as consideration of an application proceeds through the multi-stage process. Furthermore, if when granting planning permission the authority ensures the permission is conditioned by reference to the development parameters considered in the ES, it will normally be possible for an authority to treat the EIA at the permission stage as sufficient for the purposes of granting any subsequent multi stage consents. In this way authorities can seek to minimise the risk that new environmental information comes to light at a later stage which, had it

<sup>59</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

been known about previously, would have resulted in the principle decision being refused or which subsequently requires additional mitigation measures to be imposed.

The ruling in case *Commission v UK (C-508/03)* has nevertheless made it clear that there may be circumstances in which an authority is obliged to carry out EIA even after planning permission has been granted. This is because it is not possible to eliminate entirely the possibility that it will not become apparent until a later stage that the project is likely to have significant effects on the environment. In that event account will have to be taken of all the aspects of the project which have not yet been assessed, or which have been identified for the first time as requiring assessment."

### **Requesting further information for Applications for Permission in Principle**

- D.11.12 When any planning application is made for permission in principle, the planning authority will need to satisfy themselves that they have sufficient information available on the environmental effects of the proposal to enable them to determine whether or not planning permission should be granted in principle. If the information available in the Environmental Statement at this stage is insufficient to determine whether the proposal is acceptable in principle, the planning authority should require such information to be submitted, as it is reasonably necessary to assess the likely environmental effects of the proposal, or they should refuse planning permission, possibly with an indication that a detailed application would be considered if it is supported by an Environmental Statement.
- D.11.13 In addition to the powers, described in section D.6 above,
- a] under regulation 23 of the principal regulations<sup>60</sup>, to require further environmental information or evidence to support the Environmental Statement, and
  - b] under regulation 24 of the Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2008 requiring any further information in order to enable them to deal with the application,
- D.11.14 The nature of the further information that may be required is dependent on the nature of the proposal and the nature of the environmental sensitivities of the site. A proposal on or near a bog or mire, for instance, may require details of access and road drainage so that their hydrological effects can be assessed. Where there are landscape and visual sensitivities, the siting, mass, and height of the main components of the proposal, and possibly ancillary development such as roads, car parks, etc., will be necessary. Each proposal, however, is unique and will have to be considered carefully.
- D.11.15 Circular 3/2011 provides important advice in respect of the treatment of the former outline planning applications and their subsequent reserved matters in paragraphs 144 - 149, which are not reiterated here, but may equally apply to applications for permission in principle. It relates to the need to supersede earlier screening opinions, advice on the submission of revised and updated Environmental Statements, and on revisions to mitigation measures.

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<sup>60</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

## Part E

# The Decision Making Stage

# E.1 Adopting the precautionary principle

[See also Sections D.6 - D.10, E.2, E.3 and E.4, Attachment A and Annexe 1]

## Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	<b>E1 Adopting the precautionary principle</b>
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## The Precautionary Principle

- E.1.1 This principle is particularly relevant to the EIA process. Generally, decisions should be based on the best scientific and other information available.
- E.1.2 The EIA should ensure that this is available to the decision maker, at the right time. The environmental information should make clear, or as clear as possible, the environmental effects and consequences of the project. However, there are bound to be limitations in many cases where prediction is uncertain, e.g. based largely on professional judgement using assumptions that are themselves uncertain. Comparison with the effects of other projects elsewhere is often not available and sometimes it is not practical or feasible to obtain all the information desirable, e.g. where considerable costs or long timescales are involved.
- E.1.3 The principle was described in the Rio Declaration 1992 which set out the “precautionary approach”:
- “Where there are threats of serious or irreversible damage, lack of full scientific certainty shall not be used as a reason for postponing cost-effective measures to prevent environmental degradation.”
- E.1.4 This wording indicated that the principle can be applied to all forms of environmental damage that might arise and should not be confined only to the actions of government.
- E.1.5 Paragraph 132 of SPP, 2009<sup>61</sup>, states: “planning authorities should apply the precautionary principle where the impacts of a proposed development on nationally or internationally significant landscape or natural heritage resources are uncertain but there are good scientific grounds for believing that significant irreversible damage could occur. Where the precautionary approach is justified, modifications to the proposal which would eliminate the risk of irreversible damage should be considered”
- E.1.6 Paragraph 133 of the consultation draft SPP, 2013<sup>62</sup> restates this as: "Planning authorities should apply the precautionary principle where the impacts of a proposed development on nationally or internationally significant landscape or natural heritage resources are uncertain. If there is any likelihood that damage could occur, modifications to the proposal which would eliminate the risk should be considered."
- E.1.7 In cases where a designated European site may be affected, Regulation 48 of the Conservation (Natural Habitats &c) Regulations 1994 (as amended) and Regulation 61 of the Conservation of Habitats and Species Regulations 2010, embody the precautionary principle in the requirement to grant consent (subject to the derogations in Regulation 49 and Regulation 62 respectively) only if the Competent Authority has ascertained that the project will not adversely affect the integrity of the site. The duty is to establish that there would be no harm to the integrity of the site.

### Box

E.1.1

#### The Precautionary Approach

### Key advice

Competent Authorities should adopt the precautionary approach in considering environmental information and when deciding whether to give consent to projects, in accordance with Government policy.

- E.1.8 For further information on the application of the precautionary principle see Practical Guidance on Applying the Precautionary Principle (2006)<sup>63</sup> and Applying the Precautionary Principle – An Overview (May 2005)<sup>64</sup> published by the Scotland and Northern Ireland Forum for Environmental Research (SNIFFER).

<sup>61</sup> <http://www.scotland.gov.uk/Resource/Doc/300760/0093908.pdf>

<sup>62</sup> <http://www.scotland.gov.uk/Resource/0042/00421076.pdf>

<sup>63</sup> <http://www.envirobase.info/search/DatabaseSearchBin.aspx?outputid=88452&type=pdf>

<sup>64</sup> <http://www.envirobase.info/search/DatabaseSearchBin.aspx?outputid=88451&type=pdf>

## E.2 Relationship of EIA with the development plan and other consent procedures

[See Also Sections D.6 - D.10, E.1, E.3 and E.4 and Attachment A]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
	<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>
D2 Consultation and publicity	
D3 Liaison with the Competent Authority and the Proposer	
D4 Wider Consultation and dissemination	
D5 Transboundary environmental effects	
D6 Requesting more information or evidence	
D7 Modifications to the project	
D8 Further Information and Supplementary Environmental Statements	
D9 Reviewing the Environmental Statement	
D10 Formulating a Consultation Response	
D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions	
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	<b>E2 Relationship of EIA with the Development Plan and other Consent Procedures</b>
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Role of EIA

- E.2.1 It is important to bear in mind that the EIA process is only one part of the decision making procedure and that the Environmental Statement is only one part of the EIA process. PAN 1/2013<sup>65</sup> aims to promote improved integration between EIA and the development management process (see paragraph 4.21 of the PAN, on publicity and consultation requirements for example).

## Planning Related Decisions

- E.2.2 For example, when dealing with a planning application a planning authority must decide the application in accordance with the development plan unless material considerations indicate otherwise (see TCPSA 1997 S.25). The environmental information is a material consideration. The Environmental Statement is an important part of the environmental information. There is no requirement for the planning authority or Reporter or Scottish Ministers to agree with or to adopt or reject the conclusions of an Environmental Statement. They need to take it into account, and, if granting permission, to state in their decision that they have taken the environmental information into account (e.g. Reg.3 the principal regulations<sup>66</sup>).
- E.2.3 Environmental Statements relating to development requiring planning permission should directly relate the environmental effects of the project to the relevant development plan policies: all of them, not just a favourable selection. It should be clear from the Environmental Statement whether the development is in accordance with the development plan. Whether or not it is in accordance with the development plan, it is open to the proposer to state in the Environmental Statement or in his submissions explaining the proposals to the planning authority, what other material considerations may be relevant to the planning decision.
- E.2.4 Consequently, an Environmental Statement may fairly conclude that the project is not in accordance with some development plan policies because of its adverse environmental effects but, nevertheless, the Environmental Statement may set out material considerations which could outweigh the policies - such as economic benefits or benefits to other aspects of the environment that may be enhanced rather than harmed.

## Other Decisions

- E.2.5 These same principles apply to all Competent Authorities and all decision making procedures. EIA is intended to inform the decision not to direct what decision should be made.

## Assessment under the Habitats Directive and Regulations – Natura 2000 sites

- E.2.6 If a project would be likely to have a significant effect on a Natura 2000 site in Great Britain, and it is not necessary for the management of that site, then the decision maker must follow the procedures in Regulations 48 and 49 of the Habitats Regulations 1994 and/or Regulations 60 and 61 of the Conservation of Habitats and Species Regulations 2010, <http://www.legislation.gov.uk/ukxi/1994/2716/contents/made> and <http://www.legislation.gov.uk/ukxi/2010/490/contents/made> (as amended), see paragraph B.1.13 above and carry out an appropriate assessment. As noted above, this requirement will apply to proposals outside of a Natura 2000 site which would be likely to have a significant effect on that site, as well as proposals in a Natura 2000 site which would be likely to have a significant effect on the site (see B.8 above).
- E.2.7 The appropriate assessment is not the same as an EIA under the provisions of the EIA Regulations. Compliance with the Directives 85/337/EEC and 97/11/EC is achieved through the EIA process which should run alongside and concurrently with the “appropriate assessment”

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<sup>65</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

<sup>66</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>



under the Habitats Regulations in compliance with Directive 92/43/EEC. Neither procedure overrides the other; both must be followed where both sets of Regulations apply. In many cases, plans or projects that will be subject to an appropriate assessment will need an Environmental Statement to be prepared under the EIA Regulations.

- E.2.8 The Environmental Statement will address all likely significant environmental effects. The appropriate assessment will only address the effects on the Natura 2000 sites although this will necessitate consideration of the effects of the proposal on the internationally important habitats and/or species for which the site is or will be designated or classified. It will be appropriate to use the information assembled for the Environmental Statement when carrying out the appropriate assessment under the Habitats Regulations. In view of this it would be helpful if relevant Environmental Statements clearly identified, under a specific heading, the likely significant effects on the Natura 2000 sites and their internationally important habitats and/or species.
- E.2.9 It should also be noted that, in Natura 2000 site casework, the consideration as to whether the proposal would be likely to have a significant effect on the site is to be made in view of the site's conservation objectives. These should be provided to the proposer by SNH at the earliest opportunity in relevant cases. The proposer should seek guidance on the assessment from SNH. If the information for the appropriate assessment under Regulation 48 and/or Regulation 61 is to be included in the Environmental Statement, it should include an assessment of each of the site's qualifying interest features in view of the conservation objectives for those interests.
- E.2.10 The other main implication of the Habitats Regulations is that there is a greater need for the proposer to consider and set out alternative solutions, showing why there are none or why they must be rejected, so that the Competent Authority may determine whether there are alternative solutions under the procedures in Regulation 49 and/or Regulation 61, should it be necessary to apply that Regulation.

### Influence of the EIA Process

- E.2.11 Research<sup>67</sup> has shown that with increasing experience of EIA, Environmental Statements have become more open and well balanced and therefore a more credible part of the decision making process. Environmental Statements completed since 1992, by experienced assessors, demonstrated a more objective, impartial and rigorous approach.
- E.2.12 The EIA process can be extremely influential. Even where decision making authorities are inexperienced in the EIA process, or they have no expertise in some aspects of the assessment, they generally treat the process seriously and seek expert advice and guidance where necessary. However, this is sometimes constrained by a lack of resources to commission external help.
- E.2.13 Expert advice and guidance usually comes from statutory consultees or other well-informed commentators. Generally, the comments of these bodies are considered carefully and weight is attached to Environmental Statements, which the consultees consider to be well prepared, balanced and competent. It follows that statements prepared in the erroneous belief that they can be used to conceal adverse impacts and promote alleged environmental enhancement are not given weight in the decision. Poorly balanced or ill-prepared statements can form an obstacle to the decision. They have led to scepticism, lack of credibility, delay and often to a refusal of the consent being sought.
- E.2.14 Well balanced, thoroughly prepared, impartial, clear and comprehensive statements expedite the decision making process, reduce the need to apply precautionary restrictions and increase confidence that the project would be responsibly undertaken with a commitment to mitigation.

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<sup>67</sup> RSPB *Wildlife Impact: The Treatment of Nature Conservation in Environmental Assessment*, 1995, RSPB, Sandy, Beds

E.2.15 The influence of the consultees, both statutory and non-statutory, is vital to the process. Clearly specified and reasoned requests for scoping, survey information, analysis, prediction and mitigation are usually received positively by decision makers and proposers. As a result of consultation responses, Environmental Statements are frequently improved or supplemented, the effect of mitigating measures enhanced and projects modified.

Box  
E.2

Key advice

### Consultation Responses

It is vital that consultees concentrate on making representations about the project - clearly setting out their opinion as to the effects on the environment and the significance of the effects.

These representations can, and should, draw upon the information in the Environmental Statement and indicate whether the conclusions in the Environmental Statement are a sound basis for informing the Competent Authority as to the effects on the environment.

The response should not, however, focus entirely on the strengths or weaknesses of the Environmental Statement.

Detailed comments on the Environmental Statement may assist the Competent Authority and may be important, but the consultee's response should clearly distinguish between the formal response to the application, which should be in the covering letter, and the comments on the Environmental Statement, which might usefully be included in an Annex to the consultee's main response.

## E.3 Guaranteeing commitments and compliance

[See also Sections D.6 - D.10, E.1, E.2, and E.4 and Attachment A]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	<b>E3 Guaranteeing commitments and compliance</b>
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- E.3.1 The Competent Authority has statutory powers to impose conditions, restrictions or limitations on the project consent and/or to enter into legal agreements to guarantee compliance with the terms of the consent. Circular 3/2011 strongly endorses the approach in this section of the handbook at paragraphs 136 - 140; whilst PAN 1/2013<sup>68</sup> gives guidance on the use of planning conditions and legal agreements at paragraph 4.31.

## Conditions and other Limitations

- E.3.2 The granting of consent for a project almost always relies on conditions that are intended to limit or restrict the proposal and on the implementation of the mitigating measures. Without the conditions and the mitigation the project would be environmentally unacceptable.
- E.3.3 However, the Directive and the Regulations do not require the implementation of the mitigation measures specified in the Environmental Statement or elsewhere. The implementation and enforcement is left to the consenting procedures.
- E.3.4 It is not sufficient, therefore, for an Environmental Statement merely to indicate what the mitigating measures would be. They must each be clearly identified (a statutory requirement of the Regulations, see [Box B.6.2](#) above); and should be guaranteed in the event of the project proceeding. Neither is it likely to be sufficient for a condition on a consent which merely states that the proposal shall be “in accordance with the environmental statement”, Circular 3/2011 at paragraph 137 and PAN 1/2013 at paragraph 4.31 says this is unlikely to be valid unless the ES is exceptional in the precision with which it specified mitigation measures. PAN 1/2013 recommends that planning authorities request a schedule of mitigation. This also has advantages for proposers as it can provide more certainty as to the requirements with which they must comply.
- E.3.5 The Environmental Statement and/or the decision notice should expressly state how the various measures will be implemented. These may include, for example, requirements of conditions on planning permissions and licences or legally binding agreements.
- E.3.6 Where there is need to impose a restriction on a development this can be done through the planning system either by the use of conditions or through a planning agreement under s75 of the Town and Country Planning (Scotland) Act 1997. Agreements under s75 may be registered with the Register of Sasines or the Land Registry, making them binding on successors in title. Conditions are also enforceable against subsequent landowners. Such agreements or conditions can be enforced by the planning authority and have a good record of compliance which provides confidence for the public and interested bodies.
- E.3.7 Alternatively, Circular 3/2011<sup>69</sup> at paragraph 140 urges proposers to consider adopting environmental management systems to demonstrate implementation of mitigation measures and to monitor their effectiveness.

Box  
E.3

### Conditions and Agreements

Key advice

In order for mitigation measures proposed in the Environmental Statement to be binding, they must form part of the application, conditions of consent, or other legal agreement (e.g. Section 75 Planning Agreement) between the Competent Authority and the proposer.

Monitoring impacts should be covered by a Section 75 Agreement, or equivalent. Therefore, Competent Authorities and consultees should ensure that appropriate provisions are made in the consent.

<sup>68</sup> <http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

<sup>69</sup> <http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

## E.4 The decision of the competent authority

[See also Figure 3, Sections D.6 - D.10, E.1, E.2 and E.3 and Attachment A]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	<b>E4 The Decision of the Competent Authority</b>
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- E.4.1 The Competent Authority must state in writing, when granting a consent to a project that was subject to EIA, that the environmental information has been taken into account. See the principal regulations<sup>70</sup> at regulation 3.
- E.4.2 The Competent Authority must also notify the Scottish Ministers, the consultation bodies and the applicant of their decision, irrespective of whether they are granting or refusing the consent. They must also publicise their decision in the local press and indicate in the press notice where a copy of the decision making documents and the decision are available for public inspection, free of charge (Reg.26 of the principal regulations and paragraphs 141 – 142 of Circular 3/2011).

### The Decision

- E.4.3 The Competent Authority will make its decision on whether to consent to the project. The Regulations require that the environmental information must be taken into account. There is no duty on the Competent Authority to agree with the conclusions of the Environmental Statement or to accept the advice or recommendations of the consultees or the public. The duty is limited to taking all of the information into account. It is, therefore, open to the Competent Authority to grant consent to an environmentally damaging project or to refuse consent for an environmentally beneficial or benign project.
- E.4.4 The Competent Authority must state on the face of the consent that they have taken account of the environmental information, in accordance with the Regulations. They do not have to do this if they are refusing consent. Indeed, if refusing consent they do not have to take the environmental information into account, in order to comply with the Regulations, although they will need to do so to ensure they have not failed to take into account a material consideration. The Competent Authority must notify the Scottish Ministers and the consultation bodies of their decision, whether or not they grant permission.
- E.4.5 For planning applications, a copy of the decision, including any conditions imposed, must be kept with the planning register and along with such other documents as contain:
- a] the main reasons and considerations on which the decision was based; and
  - b] where permission has been granted, a description of the main measures to avoid, reduce and, if possible, offset the major adverse effects of the proposal.

Circular 3/2011 also states that information about the right to challenge the validity of the decision and the procedures for doing so should be placed on the planning register. The Circular also fairly indicates that in most cases a copy of the planning officer's report to the committee is likely to meet the requirements under a) and b).

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<sup>70</sup> <http://www.legislation.gov.uk/ssi/2011/139/contents/made>

## Part F

# Implementation and compliance

# F.1 Compliance and mitigation measures

For each of the pre-construction, construction, operational, decommissioning and restoration stages

[See also Sections C.9, D.6, D.9, D.10, E.2, E.3, E.4, F.2 and F.3]

## Stage and Step in the EIA Process

Stage	Step
<b>Stage 1: Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2: Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3: Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4: Implementation</b> [For each of the pre- construction, construction, operational, decommissioning and restoration stages]	<b>F1 Compliance and implementation</b>
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures



## Statutory Provisions and Government Guidance

- F.1.1 The proposer has a statutory duty to comply with the terms of the consent. The Competent Authority has statutory powers to enforce compliance.
- F.1.2 There is no duty on the Competent Authority to monitor compliance with conditions and the terms of the consent. Enforcement will often rely on interested parties such as statutory consultees or local residents drawing any non-compliances to the attention of the Competent Authority. Consultees may not be made aware of the commencement of the project. The extent of monitoring for compliance with terms and conditions, which consultees relied on in the decision to grant consent, needs to be judged on a case by case basis, depending on the issues involved, the resources required and available, and the resources of the Competent Authority and the proposer.

## Implementation

- F.1.3 Many Environmental Statements will contain a project programme indicating the likely start and end dates of the main phases of the project, assuming consent is granted. However, these are often over optimistic as to the length of time it will take to obtain the consent. Such programmes may well be out of date by the time the consent is issued. Developers will usually be willing to advise consultees and the Competent Authority of any revisions to programmes, on request.
- F.1.4 The degree of monitoring will vary according to the type of development and some phases may be more environmentally sensitive than others. Usually, the key phases will be site preparation and construction and, at a later date, decommissioning and/or restoration. Many schemes will include advance mitigation works, e.g. advanced planting for screening and these may need to be checked

### Box

#### F.1.1 The Approach to Monitoring

### Key advice

It will need to be decided, on a case by case basis, which projects should be monitored for compliance, how such monitoring should be undertaken and by whom, and which of the counter-acting measures should be checked, at which stages of the proposal

Consultees should work closely with the Competent Authorities to draw up appropriate conditions and agreements to ensure adequate monitoring (quarterly, annually, etc., as appropriate to the nature of the concern) and provision for counter-acting measures (which could include financial and other guarantees).

See also [Sections E.2 - 3](#) above.

## F.2 Monitoring programmes

[See also Sections C.9, D.6, D.9, D.10, E.2, E.3, E.4, F.1 and F.3]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	<b>F2 Monitoring</b>
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- F.2.1 Monitoring is a non-statutory procedure but may be required by conditions on a project consent, or by legal agreements (such as planning obligations under S.75 of the Town and Country Planning (Scotland) Act 1997), that would be legally enforceable by the Competent Authority. PAN 1/2013 at 4.31 suggests that planning obligations should only be used exceptionally to secure mitigation, presumably because, in most cases, a condition should be sufficient to regulate mitigation and monitoring.

### Monitoring

- F.2.2 Implementation of mitigating measures may still not guarantee their success in reducing environmental effects. It is vital that someone monitors the effectiveness of mitigation to ensure that it meets the standards and achieves the objectives anticipated in the decision. Monitoring can improve the future mitigation of similar developments. It may also be necessary where no mitigation was proposed or required because the proposal was not expected to cause significant environmental change. The Directive and Regulations do not require monitoring procedures to be put in place, only mitigation measures.
- F.2.3 Post-project monitoring and review are appropriate to planning and other legal agreements and should be clearly described and guaranteed in the EIA process. The Environmental Statement should contain a prescription for the implementation of mitigating measures, monitoring and review procedures with a clear commitment and readiness to accept conditions and legal agreements to ensure they are implemented at the right time and in appropriate ways.
- F.2.4 Consultees may be able to make a valuable contribution to the design of monitoring, and will have the opportunity to comment on the adequacy of monitoring proposals set out in the Environmental Statement.
- F.2.5 Monitoring may be delegated to a range of bodies, which commonly include the proposers or their consultants or university research teams. However, monitoring will not usually be feasible unless it is financed by the proposer.
- F.2.6 Monitoring to verify the predictions of EIA has seldom been undertaken other than by Transport Scotland, though it may be possible to obtain data relevant to the topic where developments are situated in, or close to, sites where surveys are proceeding for other reasons. Marine Scotland are also keen on monitoring in respect of offshore developments to improve the knowledge and understanding of effects on the marine environment.
- F.2.7 The lack of such monitoring is common to EIA in all parts of the world, and has been identified as one of the primary reasons for the low scientific reliability of many EIAs.

#### Box

#### F.2.1 **Monitoring Programmes/Agreements**

#### Key advice

Consultees should assist and advise in drawing up the schedule and methodology for monitoring and where appropriate should agree to assess the results of monitoring and to advise the Competent Authority and proposer of these results.

Consultees should be consulted by the Competent Authority when it is considering whether to approve or amend mitigation schemes, wherever the effects on the natural heritage are potentially significant. It is for the Competent Authority to ensure (enforce) that these conditions, monitoring and mitigation, are met. If there is a timetable for receipt of details of monitoring and this is not met Consultees should alert the Competent Authority and press them to take action. Similarly, if there is a time-table for agreeing and implementing mitigation measures and this is not met, or consultees believe it is not being met, consultees should alert the authority or press them to take action.

## F.3 Review and reassessment and remedial programmes

[See also Sections C.9, D.6, D.9, D.10, E.2, E.3, E.4, F.1 and F.2]

### Stage and Step in the EIA Process

Stage	Step
<b>Stage 1:</b> <b>Before Submission of the Environmental Statement</b>	C1 Deciding whether EIA is required (screening)
	C2 Requiring submission of an Environmental Statement
	C3 Preliminary contacts and liaison
	C4 Scoping the Environmental Statement
	C5 Provision of Information
	C6 Describing baseline environmental information
	C7 Predicting environmental impacts
	C8 Assessing the significance of impacts
	C9 Mitigation measures and enhancement
	C10 Presenting environmental information in the Environmental Statement
<b>Stage 2:</b> <b>Submission of Environmental Statement and Consideration of Environmental Information</b>	D1 Submission of Environmental Statement and project application
	D2 Consultation and publicity
	D3 Liaison with the Competent Authority and the Proposer
	D4 Wider Consultation and dissemination
	D5 Transboundary environmental effects
	D6 Requesting more information or evidence
	D7 Modifications to the project
	D8 Further Information and Supplementary Environmental Statements
	D9 Reviewing the Environmental Statement
	D10 Formulating a Consultation Response
	D11 Planning Permission in Principle and Approval of Reserved Matters specified in Conditions
<b>Stage 3:</b> <b>Making the Decision</b>	E1 Adopting the precautionary principle
	E2 Relationship of EIA with the Development Plan and other Consent Procedures
	E3 Guaranteeing commitments and compliance
	E4 The Decision of the Competent Authority
<b>Stage 4:</b> <b>Implementation</b> <b>[For each of the pre- construction, construction, operational, decommissioning and restoration stages]</b>	F1 Compliance and implementation
	F2 Monitoring
	F3 Review, reporting, reassessment and remedial measures

## Statutory Provisions and Government Guidance

- F.3.1 Review, reassessment and remedial measures are non-statutory procedures but may be required by conditions on a project consent, or by legal agreements (such as planning obligations under S.75 of the Town and Country Planning (Scotland) Act 1997), that would be legally enforceable by the Competent Authority.

### Review

- F.3.2 Provision must be made at the decision making stage to ensure that changes or remedial (i.e. corrective) action can be implemented effectively and quickly if monitoring reveals problems. Procedures for monitoring and the review of mitigation after the project has commenced, and for as long as may be necessary, are therefore essential if monitoring is to have any real effect.
- F.3.3 The key point about monitoring is that it should not be monitoring for its own sake. There may be occasions when monitoring simply to verify or validate the predictions in the Environmental Statement may be appropriate (to assist predictions in other, similar cases in the future) but usually monitoring will only be worthwhile if it is reinforced with effective review and remedial action mechanisms. These may include re-assessment of the project in the light of actual effects that occur, or may include observation and reporting on the nature and scale of effects and comparison with those predicted in the Environmental Statement.
- F.3.4 Reviews may need to include consultation. Often this can be accommodated by an annual report (or some other appropriate time scale) being submitted to the Competent Authority and statutory consultees by the proposer's consultants or the monitoring team. These reports could be considered at an annual review meeting where the relevant parties decide the effectiveness of the mitigation.
- F.3.5 Again, review is only worthwhile where there is a clear purpose to it. If there are no mechanisms whereby the proposer has agreed to adjust or otherwise change mitigation, in the light of the monitoring and review, then there is usually no point reviewing the monitoring

Box

#### F.3.1 **Guaranteeing Monitoring**

Key information

The decision of the Competent Authority in deciding to grant consent or authorisation for the project, or legally binding agreements drawn up at the time of the decision, should make clear what procedures will be put in place to review the monitoring and to change the mitigation if necessary.

They should indicate who will review the effects, who will report to whom, who is responsible for taking decisions, who will implement the changes to mitigation and other remedial works, and who will pay the costs of remedial work and corrective action. It is for the planning authority to determine whether a planning condition or a S.75 Agreement will be required.

# Annexes

# Annexe 1: Glossary

## Alternative solutions

These are alternative ways of achieving the objectives of a project. They may include:

- alternative locations that are suitable and available; or
- different approaches in terms of: design, manufacturing or other processes; the use of different forms of transport or energy; different sources for the supply of materials etc.

## Annex I Projects (Also referred to as Schedule 1 Projects)

See [Schedule 1 Projects](#) below.

## Annex II Projects (Also referred to as Schedule 2 Projects)

See [Schedule 2 Projects](#) below.

## Compensatory measures or ‘compensation’

Measures designed to at least try to offset or compensate for residual adverse effects which cannot be avoided, cancelled or further reduced (see mitigation measures below).

## Competent Authority

This is the authority which determines the application for consent, permission, licence or other authorisation to proceed with a proposal. It is the authority that must consider the environmental information before granting any kind of authorisation. For example, for projects requiring planning permission this will usually be the Planning Authority, but in some cases may be the Scottish Ministers.

## Consultation bodies

Is any body specified in the relevant EIA Regulations which the Competent Authority must consult in respect of an Environmental Statement, and which also has a duty to provide information or advice during the EIA process. They are:

- The Planning Authority
- Adjacent planning authorities whose area may be affected
- Scottish Natural Heritage
- The Scottish Environment Protection Agency (SEPA)
- Scottish Water
- The Health and Safety Executive (but not for roads EIA)
- The Scottish Ministers (Historic Scotland)
- Other bodies designated by statutory provision as having specific environmental responsibilities and which the relevant planning authority or the Scottish Ministers, as the case may be, considers are likely to have an interest in the application, and
- For marine fish farming any district salmon fishery board in whose area the proposed development is to be situated
- (regulation 2(1) of the principal regulations: <http://www.legislation.gov.uk/ssi/1999/1/contents/made>)

## **Crown Land/The Crown**

Is a generic term for land held by Her Majesty the Queen, as Monarch and certain other royal land and all Government held land, for example land held by the Ministry of Defence and land owned by the Scottish Ministers including prisons, Trunk Roads and Motorways.

## **Do-nothing comparison**

Or in some cases, such as road improvements, the “do-minimum” comparison, is a projection of the existing data to provide a baseline for comparison to show what changes, if any, would take place if the project did not go ahead, or what the conditions would be on the road, railways, etc., if the project was not undertaken.

## **EEA State**

A State which is a Contracting Party to the Agreement on the European Economic Area signed at Oporto on 2nd May 1992 as adjusted by the Protocol signed at Brussels on 17th March 1993.

## **EIA application**

An application for planning permission for EIA development.

## **EIA development**

Development which is either

- a) Schedule 1 development; or
- b) Schedule 2 development likely to have significant effects on the environment by virtue of factors such as its nature, size or location.

## **Enhancement/Net Benefit/New Benefit**

In natural heritage terms, this is the genuine (as opposed to asserted) improvement of the natural heritage interest of a site or area, for example, because adverse effects are limited in scope and scale, and the project includes measures to improve the physical state or management of landscapes or habitats, or new landscape features or habitats, which are better than they are at present. There is, therefore, a net or new benefit to the natural heritage.

## **Environmental Impact Assessment**

Is the whole process of gathering environmental information; describing a development or other project; predicting and describing the environmental effects of the project; defining ways of avoiding, reducing or compensating for these effects; consulting the general public and specific bodies with responsibilities for the environment; taking all of this information into account before deciding whether to allow the project to proceed and ensuring that the measures prescribed to avoid, reduce or compensate for environmental effects are implemented.

## **Environmental information**

This is the information that must be taken into account by the decision maker (the Competent Authority) before granting any kind of authorisation in any case where the EIA process must be applied. It includes the environmental statement, including any further or any other information, any representations made by any body required by the Regulations to be invited to make representations, and any representations duly made



by any other person about the environmental effects of the proposal.

## Environmental statement

Is the report normally produced by, or on behalf of, and at the expense of, the proposer or project promoter which must be submitted with the application for whatever form of consent or other authorisation is required. It is only one component, albeit a very important one, of the environmental information that must be taken into account by the decision maker. The principal regulations define it as a statement:

- a) that includes such of the information referred to in Part I of Schedule 4 as is reasonably required to assess the environmental effects of the proposal and which the applicant can, having regard in particular to current knowledge and methods of assessment, reasonably be required to compile, but
- b) that includes at least the information referred to in Part II of Schedule 4.

## Exempt development

Means development in respect of which the Scottish Ministers have made a direction under regulation 5(4), in accordance with article 2(3) of the Directive.

## Iterative

(A process) repeated until the best solution has been found so, in the context of EIA, it can be understood as the process of assessment and reassessment until the best environmental fit is achieved.

## Matters Specified in Conditions

See Planning Permission in Principle below.

## Mitigating measures or 'mitigation'

These are the measures taken to avoid, cancel or reduce adverse impacts of a project. They are:

- **Avoidance measures**  
Designed to avoid or eliminate any adverse impacts arising in the first place, including alternative or 'do nothing' options;
- **Cancellation measures**  
Designed to nullify or cancel out any adverse effects of a project before adverse effects are felt;
- **Reduction measures**  
Designed to minimise or at least reduce adverse impacts remaining after avoidance and cancellation measures have been applied to a project.

## Outline Planning Permission/(see also Planning Permission in Principle)

Prior to 2009, this was the procedure to establish whether a particular kind of development was acceptable in principle, before detailed plans were prepared. Outline planning applications were subject to EIA procedures. If outline planning permission was granted, the developer had three years in which to submit applications for the approval of 'reserved matters'. When all of these were approved by the Competent Authority development could begin. The European Court of Justice ruled that this was a 'multi-stage' consent process, and that EIA procedures could apply to the reserved matters applications, if EIA had not been applied, or not fully applied, at outline application stage, or if new issues arose as a result of consideration of the reserved matters.

## Planning Permission in Principle

From 2009 applications for planning permission in principle replaced the outline planning permission procedures (see above). If Planning Permission in Principle is granted, the developer submits application(s) for approval, consent or agreement of 'matters specified in conditions' see further Regulations 10–12 (Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013 ). When all of these are approved development may begin. This procedure is also a multi-stage consent process in the same way that outline planning applications and reserved matters were (see above). EIA procedures may therefore apply to applications for approval of matters specified in conditions.

## Proposer

For the purposes of this Handbook, to help make the text more readable, all project proposers are referred to as 'proposers', whether or not their project constitutes development within the meaning of the Town and Country Planning (Scotland) Act 1997 and whether or not the project is for public service or infrastructure or for commercial purposes.

## Reserved Matters

See 'outline planning permission' above.

## Revised Environmental Statement

Where a project has been modified since the original application and Environmental Statement was submitted, a revised Environmental Statement may be submitted, to amend the original, to ensure that the environmental information considered by the Competent Authority relates to the project as modified. The revised Environmental Statement may be a revision of the whole of the original document or revisions only of those parts of the original Environmental Statement that need to be changed as a result of the modifications.

## Schedule 1 Projects

These are projects which are listed in Annex I of the Directive, as revised, and Schedule 1 of the Principal Regulations, as revised.

## Schedule 2 Projects

These are projects which are listed in Annex II of the Directive, as revised, and Schedule 2 of the Principal Regulations, as revised.

## Schedule 1 application and Schedule 2 application

Mean an application for planning permission for Schedule 1 development and Schedule 2 development respectively.

## Schedule 1 development

Means development, other than exempt development, of a description mentioned in Schedule 1 of the Principal Regulations.

## Schedule 2 development

Means development, other than exempt development, of a description mentioned in Column 1 of the table in Schedule 2 of the Principal Regulations where:

- a) any part of that development is to be carried out in a sensitive area; or
- b) any applicable threshold or criterion in the corresponding part of Column 2 of that table is respectively exceeded or met in relation to that development.

## Scoping

Is the procedure whereby the Competent Authority and the relevant statutory and other consultees are consulted at the outset, or very early in the EIA process, by the proposer to agree what effects are likely to be significant and should therefore be covered in the Environmental Statement, how they should be covered and the methods to be used to assess them. If requested by the proposer the Competent Authority must give a scoping opinion.

## Screening

Is the process of deciding whether a particular project that is proposed is EIA development. It involves checking whether the project falls within the classes of project in Schedules 1 or 2 of the Principal Regulations (or Annexes I or II of the Directives) and if in Schedule 2, whether it would be likely to have significant effects on the environment.

## Screening direction

Means a direction made by the Scottish Ministers as to whether a particular development or type of development is EIA development.

## Screening opinion

Means a written statement of the opinion of the relevant planning authority as to whether a particular development is EIA development.

## Sensitive area

Means any of the following-

- a) A Site of Special Scientific Interest;
- b) Land to which a Nature Conservation Order applies;
- c) a World Heritage Site;
- d) a National Park;
- e) a scheduled monument;
- f) a European site within the meaning of Reg.10 of the Conservation (Natural Habitats, &c.) Regulations 1994 (including a Special Protection Area or a Special Area of Conservation);
- g) a National Scenic Area.

## **Statutory Consultee**

Is any body specified in the relevant EIA Regulations which the Competent Authority must consult in respect of an Environmental Statement, and which also has a duty to provide information or advice during the EIA process. They are listed under the definition of 'consultation bodies' above.

## **Strategic Environmental Appraisal/Assessment (SEA)**

This is the whole process of considering the environmental effects of certain public plans and programmes, including development plans, under the Environmental Assessment (Scotland) Act 2005.

## **Supplementary Environmental Statement**

Where the original Environmental Statement was incomplete or further work on environmental effects has been undertaken, (whether or not the project has been modified since the original application and Environmental Statement were submitted) a supplementary Environmental Statement may be submitted, to add to the original, to ensure that all of the relevant environmental information is considered by the Competent Authority. The supplementary Environmental Statement may include a revision of the whole or part of the original document or additions that are needed to cover the additional information.

# Annexe 2: Current Legislation

**Annexe 2 Table 1: List of Relevant Current Legislation in Date Order**

Statute	Commentary/Description
<b>The Roads (Scotland) Act 1984</b>	Applies EIA procedures to certain roads and bridges by way of additions and amendments to the Act made by the EIA Regs 99 (as amended) (see below).
<b>Standing Orders of the Scottish Parliament, 4th edition (July 2013 ).</b> The Orders were made in accordance with section 22 of and Schedule 3 to the Scotland Act 1998 (c.46).	Chapter 9A applies a form of EIA procedure to projects likely to have significant effects on the environment which are to be authorised by Parliament directly.
<b>The Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013</b> (SI 2013 No. 155)	Contains provisions for requiring further information on planning applications under Regulation 24 (see Section D.6 of this Handbook); and for the Scottish Ministers to issue Directions about EIA under Regulations 30 – 35.
<b>The Town and Country Planning (Scotland) Act 1997, S.40</b>	Provides the Scottish Ministers with the power to make Regulations governing the EIA process generally, to add further types of projects to Schedule 2 of the Regulations and to make directions to planning authorities.
<b>The Environmental Impact Assessment (Scotland) Regulations 1999</b> (Scottish Statutory Instrument 1999 No. 1), as amended.	Applied EIA procedures to: projects that require planning permission, including appeals under the Town and Country Planning (Scotland) Act 1997 certain construction and improvement projects for trunk roads authorised under the Roads (Scotland) Act 1984; and agricultural drainage works authorised by the Scottish Ministers by way of an improvement order under the Land Drainage (Scotland) Act 1958. Amended in 2006 and Part II on Town and Country Planning was replaced in 2011 by The Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011 see below. (In tables in this Handbook these Regulations are abbreviated to 'EIA Regs 99'.)
<b>The Environmental Impact Assessment (Forestry) (Scotland) Regulations 1999</b> (Scottish Statutory Instrument 1999 No. 43)	Apply EIA procedures to forestry works, including afforestation and re- afforestation as regulated by the Forestry Commission through grant schemes and other measures under the Forestry Acts. Amended in 2006 see below. In tables in this Handbook these Regulations are abbreviated to 'EIA Forestry 99'.
<b>The Offshore Petroleum Production and Pipelines (Assessment of Environmental Effects) Regulations 1999</b> (SI 1999 No 360)	Apply EIA procedures to offshore oil industry and pipeline projects. In tables in this Handbook these Regulations are abbreviated to 'EIA Offshore 99'.
<b>The Public Gas Transporter Pipeline Works (Environmental Impact Assessment) Regulations 1999</b> (SI 1999 No 1672)	Apply EIA procedures to new gas pipelines and related infrastructure. In tables in this Handbook these Regulations are abbreviated to 'EIA Gas Trans 99'.
<b>The Nuclear Reactors (Environmental Impact Assessment for Decommissioning) Regulations 1999</b> (SI 1999 No 2892)	Apply EIA procedures to the decommissioning of nuclear reactors. In tables in this Handbook these Regulations are abbreviated to 'EIA Nuclear 99'.
<b>The Environmental Impact Assessment (Fish Farming in Marine Waters) Regulations 1999</b> (SI 1999 No. 367)	Apply EIA procedures to fish farms in marine waters (fresh water fish farms are covered by the Principal Regulations above). Amended by the Regulations and Order of 2007, see below. In tables in this Handbook these Regulations are abbreviated to 'EIA Marine Fish 99'.
<b>The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2000</b> (Scottish Statutory Instrument 2000 320)	Apply EIA procedures to electricity generating power stations and overhead lines in Scotland. Amended in 2008, see below. In tables in this Handbook these Regulations are abbreviated to 'EIA Electricity 00'.

**Annexe 2 Table 1: List of Relevant Current Legislation in Date Order**

Statute	Commentary/Description
<p><b>The Pipeline Works (Environmental Impact Assessment) Regulations 2000</b> (SI 2000 No. 1928)</p>	<p>Apply EIA procedures to pipeline projects. In tables in this Handbook these Regulations are abbreviated to 'EIA Pipelines 00'.</p>
<p><b>The Electricity Act 1989 (Requirement of Consent for Offshore Generating Stations) (Scotland) Order 2002</b> (Scottish Statutory Instrument 2002 No 407)</p>	<p>Require all offshore generating stations mainly operated by wind or wave energy and over 1MW output subject to consenting procedures and the application of the Electricity Works (EIA) (Scotland) Regulations 2000.</p>
<p><b>The Environmental Impact Assessment (Water Management) (Scotland) Regulations 2003</b> (Scottish Statutory Instrument 2003 No 341)</p>	<p>Amend the definition of development to include carrying out of irrigation or drainage or other water management works for agriculture so making such projects potentially EIA development subject to the principal regulations. In tables in this Handbook these Regulations are abbreviated to 'EIA Water 03'.</p>
<p><b>The Town and Country Planning (Electronic Communications) (Scotland) Order 2004</b> (Scottish Statutory Instrument 2004 No 332)</p>	<p>Provides for the distribution of certain notices and other documents in administrative processes by e mail subject to caveats.</p>
<p><b>The Environmental Information (Scotland) Regulations 2004</b> (Scottish Statutory Instrument 2004 No 520)</p>	<p>Transpose requirements of the Freedom of Information (Scotland) Act 2002 and EC Directive 90/313/EEC on public access to environmental information, requires all public authorities to collect, maintain, disseminate and make available environmental information relevant to their functions.</p>
<p><b>The Environmental Impact Assessment (Agriculture) (Scotland) Regulations 2006</b> (Scottish Statutory Instrument 2006 No 582)</p>	<p>Applies the EIA and Habitats Directives to projects relating to uncultivated land and semi-natural areas in Scotland, and to the restructuring of rural land holdings, subjecting all projects to a screening process. It requires those likely to have significant effects to obtain the prior consent of the SM after first being subject to assessment. Amended in 2006 see below. In tables in this Handbook these Regulations are abbreviated to 'EIA Agriculture 06'.</p>
<p><b>The Environmental Impact Assessment (Scotland) Amendment Regulations 2006</b> (Scottish Statutory Instrument 2006 No 614)</p>	<p>Amends the TCP, Land Drainage, Roads, Fish Farming and Forestry EIA Regulations to comply with the requirements of the Public Participation Directive 2003, principally ensuring that further and supplementary information is publicised in a way consistent with the original ES and that decisions such as screening directions are accompanied by published reasoning. SM must publish information about how they have taken comments of consultation bodies and others into account and how decisions may be challenged, explicitly including reference to environmental NGOs. Other minor amendments and corrections.</p>
<p><b>The Town and Country Planning (Marine Fish Farming) (Scotland) Regulations 2007</b> (Scottish Statutory Instrument 2007 No 175)</p>	<p>Set out requirements for planning applications for existing marine fish farms, to 12nm, to be determined by SM under S26AA and S31A TCPSA 1997. All fish farms authorised pursuant to an application made on or after 14th March 1999 (and therefore subject to the 1999 Regs) will be subject to audit, but those authorised pursuant to an application considered under the 1988 Fish Farm EIA Regs will require a planning application to be made.</p>

**Annexe 2 Table 1: List of Relevant Current Legislation in Date Order**

Statute	Commentary/Description
<p><b>The Town and Country Planning (Marine Fish Farming) (Scotland) Order 2007</b> (Scottish Statutory Instrument 2007 No 268)</p>	<p>Amends a variety of legislation so as to bring existing and proposed marine fish farms, to 12nm, under the TCPSA regime. It amends the Fish Farming EIA Regs to avoid duplication of EIA procedures.</p>
<p><b>The Transport and Works Scotland Act 07 (Applications and Objections Procedure) Rules 2007</b> (Scottish Statutory Instrument 2007 No 570)</p>	<p>Apply the requirements of the EIA Directive to procedures in connection with the authorisation by the SM of a transport system (e.g. tram or railway) or inland waterway by way of an Order under the TWSA 2007. It provides for a pre- application scrutiny process by SM, including a review of the ES by SNH and SEPA so that they may comment on the final draft proposals. In tables in this Handbook these Regulations are abbreviated to 'EIA Trans &amp; Works 07'</p>
<p><b>The Marine Works (Environmental Impact Assessment) Regulations 2007</b> (Statutory Instrument 2007 No 1518)</p>	<p>Apply EIA procedures to certain works undertaken in the marine environment including those by a Port or Harbour Authority under the provisions of the Harbours Act 1964 and activities which require a marine licence under the Marine (Scotland) Act 2010. In tables in this Handbook these Regulations are abbreviated to 'EIA Marine Works 07'</p>
<p><b>The Electricity Works (Environmental Impact Assessment) (Scotland) Amendment Regulations 2008</b> (Scottish Statutory Instrument 2008 No 246)</p>	<p>Amends the Electricity Works EIA Regulations to comply with the requirements of the Public Participation Directive 2003, principally by improving consultation procedures, and ensuring that further and supplementary information is publicised in a way consistent with the original ES. The regulations increase the range of documentation to be placed on planning registers and amend the description of developments in Schedules 1 and 2 of the 2000 Regs</p>
<p><b>The Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011</b> (SI 2011 No 139)</p>	<p>Replaced Part II on Town and Country Planning in EIASR 99 and covers the majority of developments on land likely to require EIA in Scotland. Amended the rules for multi-stage consents so that EIA must be considered on application for purification of conditions. Introduced the concept that when changing or extending existing developments the environmental effects of the altered development must be considered and not just the alteration or extension.</p>

**Annexe 2 Table 2: The Application Of EIA Regulations By Sector And Project Type**

Sector	Project type	EIA Regulations
<b>Agriculture</b>	<ul style="list-style-type: none"> <li>— Buildings for intensive animal rearing</li> <li>— Development for irrigation and water management schemes</li> <li>— Land claim from the sea</li> </ul>	EIASR 11
	<ul style="list-style-type: none"> <li>— Land drainage and flood prevention / control</li> </ul>	EIASR 11
	<ul style="list-style-type: none"> <li>— Conversion of uncultivated land and semi-natural areas for intensive agricultural purposes and for projects for large scale restructuring of rural land holdings</li> </ul>	EIA Agriculture 06
	<ul style="list-style-type: none"> <li>— Abstraction of water, irrigation, drainage and other water management projects for agriculture</li> </ul>	EIA Water 03
<b>Aquaculture</b>	<ul style="list-style-type: none"> <li>— Installations for intensive marine fish farming</li> </ul>	EIA Marine Fish 99
	<ul style="list-style-type: none"> <li>— Installations for intensive fresh water fish farming</li> </ul>	EIASR 11
<b>Coastal projects</b>	<ul style="list-style-type: none"> <li>— Claiming land from the sea</li> <li>— Coast protection works</li> <li>— Flood banks and other flood prevention and control</li> </ul>	EIASR 11
	<ul style="list-style-type: none"> <li>— Land drainage schemes</li> </ul>	EIASR99 Part IV
<b>Energy production and storage</b>	<ul style="list-style-type: none"> <li>— Coal, gas or oil fired power stations</li> <li>— Marine barrages for electricity generation</li> <li>— Nuclear power stations</li> <li>— Tidal and wave energy utilisation for electricity generation</li> </ul>	EIA Electricity 00
	<ul style="list-style-type: none"> <li>— Development for hydroelectric schemes</li> <li>— Development for wind turbine generators (wind farms)</li> <li>— Development for industrial briquetting of coal or lignite</li> <li>— Development for steam or hot water generation</li> <li>— Exploratory drilling for energy production</li> <li>— Geothermal drilling and utilisation</li> <li>— Oil refineries</li> <li>— Surface storage of natural gas and other fossil fuels</li> <li>— Underground storage of combustible gases</li> </ul>	EIASR 11
	<ul style="list-style-type: none"> <li>— Offshore oil and gas production</li> </ul>	EIA Offshore 99
	<ul style="list-style-type: none"> <li>— Offshore electricity generating stations</li> </ul>	EIA Electricity 00
<b>Energy Transmission</b>	<ul style="list-style-type: none"> <li>— Offshore oil and gas pipelines</li> </ul>	EIA Offshore 99
	<ul style="list-style-type: none"> <li>— Overhead Electricity power lines</li> </ul>	EIA Electricity 00
	<ul style="list-style-type: none"> <li>— Gas pipelines</li> </ul>	EIA Gas Trans 99
	<ul style="list-style-type: none"> <li>— Oil/petroleum pipelines</li> <li>— Pipelines for transmission of steam or hot water</li> </ul>	EIA Pipelines 00
<b>Energy decommissioning and waste</b>	<ul style="list-style-type: none"> <li>— Decommissioning of nuclear power stations and other reactors</li> </ul>	EIA Nuclear 99
	<ul style="list-style-type: none"> <li>— Disposal of pulverised or other fuel ash</li> <li>— Drilling to store nuclear waste</li> <li>— Development for processing, re-processing and storing radioactive waste</li> </ul>	EIASR 11
<b>Forestry</b>	<ul style="list-style-type: none"> <li>Afforestation including natural regeneration, reforestation and deforestation</li> <li>Forestry tracks and quarries</li> </ul>	EIA Forestry 99
	<ul style="list-style-type: none"> <li>Development for pulp/paper/board mills</li> </ul>	EIASR 11



**Annexe 2, Table 2: The Application Of EIA Regulations By Sector And Project Type**

Sector	Project type	EIA Regulations
<b>Industrial Development</b>	— Development for all forms of industrial processing, re-processing, manufacturing, assembling, packing, testing etc., and industrial estates	EIASR 11
<b>Leisure, sport and recreation</b>	— Camping and caravanning sites — Golf courses and associated developments — Hotels, spas and similar complexes — Leisure centres — Marinas — Motor racing circuits and test tracks — Multiplex cinemas — Ski-runs, ski-lifts, cable cars, funicular railways — Sport stadiums — Theme parks	EIASR 11
<b>Mineral extraction</b>	— Disposal of mineral waste — Exploratory deep drilling — Extraction of minerals at the surface by open casting/quarrying — Extraction of minerals by underground mining — Fluvial dredging — Peat extraction (commercial) — Installations for the processing of specified minerals / products	EIASR 11
	— Marine dredging	EIA Marine Works 07
	— Review of old mineral permissions	EIASR 11
<b>Transport and communications</b>	— Docks, harbours, ports, piers and jetties and ferry terminals	EIA Marine Works 07
	— Airfields, airports, runways — Intermodal trans-shipment facilities and terminals — Motorway service areas	EIASR 11
	— Inland waterways and canals/canalisation for transport — Railways, light railways and tram systems	EIA Trans & Works 07
	— Pipelines to carry chemicals	EIA Pipelines 00
	— Roads	EIASR99 Part III
<b>Urban developments</b>	— Business parks, industrial estates and employment developments — Housing estates — New settlements — Retail parks and other retail developments	EIASR 11
<b>Waste Management</b>	— Deposit of dredgings on land — Disposal of mineral waste or hazardous wastes — Incinerators and other installations for waste disposal — Landfill and land-raise — Scrap yards — Sludge deposition — Waste water treatment plants and outfalls	EIASR 11
	— Deposit of dredgings at sea	EIA Marine Works 07
<b>Water</b>	— Dams and installations designed to hold or store water — Development for abstraction from river systems — Development for artificial recharge systems — Development for abstraction from ground waters — Development for water treatment and supply — Development for transfer of water between river basins	EIASR 11
	— Long distance aqueducts	EIA Water 03

## Abbreviations

The following abbreviations of the EIA Regulations are used in Annexe 2 Tables 2 and 3.

EIA Regs 99	Environmental Impact Assessment (Scotland) Regulations 1999
EIA Forestry 99	Environmental Impact Assessment (Forestry) (Scotland) Regulations 1999
EIA Offshore 99	Offshore Petroleum Production and Pipelines (Assessment of Environmental Effects) Regulations 1999
EIA Gas Trans 99	Public Gas Transporters (Pipeline Works) (Environmental Impact Assessment) Regulations 1999
EIA Nuclear 99	Nuclear Reactors (Environmental Impact Assessment for Decommissioning) Regulations 1999
EIA Marine Fish 99	Environmental Impact Assessment (Fish Farming in Marine Waters) Regulations 1999
EIA Electricity 00	Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2000
EIA Pipelines 00	Pipeline Works (Environmental Impact Assessment) Regulations 2000
EIA Offshore Gen 02	The Electricity Act 1989 (Requirement of Consent for Offshore Generating Stations) (Scotland) Order 2002
EIA Water M 03	Environmental Impact Assessment (Water Management) (Scotland) Regulations 2003
EIA Agriculture 06	Environmental Impact Assessment (Agriculture) (Scotland) Regulations 2006
EIA Trans & Works 07	The Transport and Works Scotland Act 2007 (Applications and Objections Procedure) Rules 2007
EIA Marine Works 07	Marine Works (Environmental Impact Assessment) Regulations 2007
MSA 2010	Marine (Scotland) Act 2010

## Key to Annexe 2 Table 3 below

Interpretation	Interpretation, including definitions
Compliance	The requirement to comply with the regulations before granting consents
Screening	Screening to establish whether EIA will apply
Scoping	Scoping of the environmental statement
Application without ES	What happens where an application is made without an environmental statement
SNH to give info	The provisions requiring SNH to give information to help the proposer compile the statement
Publicity	Provisions for publicity
Consultations	Requirements for consultations
Further info	The powers to require further information or evidence to be submitted
Transboundary	Provisions for dealing with potential transboundary effects affecting another EC member state
Public Cons period	The statutory minimum public consultation / notification period
SNH Cons period	The statutory minimum period allowed for SNH to reply to a consultation (if specified)
Final decision/records	Requirements for making and recording the competent authority's decision
Schedule 1 projects	The definition of schedule 1 projects
Schedule 2 projects	The definition of schedule 2 projects
Matters to consider	The matters to be considered when determining whether a project is EIA development subject to the EIA procedure
Content of ES	The requirements for the content of environmental statements.

## Other abbreviations used in Annexe 2 Table 3

CEC	Crown Estate Commissioner
E, S & W	England Scotland and Wales
GB	Great Britain
HA 64	Harbours Act 1964
LDSA 58	Land Drainage (Scotland) Act 1958
NI	Northern Ireland
PA	Planning Authority
PP	Planning Permission
Reg	Regulation
RSA 84	Roads (Scotland) Act 1984
S	Section (of Act)
Sch	Schedule
SM	Scottish Ministers
TCP	Town and Country Planning
UK	United Kingdom inc territorial waters

**Annexe 2 Table 3: Key Information And References In Each Of The EIA Regulations Part 1**

Project Type	Dev requiring PP including Marine fish farms	Unauthorised dev appeal	Review of Old Mineral Permissions	Motorways and trunk roads	Drainage Improvements	Marine Fish Farming other than that requiring PP
<b>Competent Authority</b>	PA or Scottish Ministers	Scottish Ministers	PA or Scottish Ministers	Scottish Ministers	Scottish Ministers	CEC
<b>Consent Procedure</b>	Planning permission under TCP (Scotland) Act 1997	Enforcement Notice appeal under TCP (Scotland) Act 1997	Review process of Mineral Permissions granted between 1948 and 1982 and all later permissions every 15 yrs	SM decide to proceed or make order under Sch 1 Roads (Scotland) Act 1984	SM consent under Land Drainage (Scotland) Act 1958	CEC consent or licence for fish farming in marine waters
<b>EIA Regulations</b>	EIASR 11	EIASR 11	EIASR 11	EIA Regs 99	EIA Regs 99	EIA Marine Fish 99
<b>Jurisdiction</b>	Scotland	Scotland	Scotland	Scotland	Scotland	Great Britain
<b>Statutory Instrument</b>	SSI 2011/139	SSI 2011/139	SSI 2011/139	SSI 1999/1	SSI 1999/1	S.I. 1999/367
<b>Came into force</b>	1.6.11	1.6.11	1.6.11	1.8.199	1.8.199	14.3.1999
<b>Interpretation</b>	Reg 2	Reg 2	Reg 2	Reg 2	Reg 2 & Reg 55	Reg 2
<b>Compliance</b>	Reg 3	Reg 3	Regs 3 and 33	Reg 49 & 50 amend S20A & 55A RSA 1984	Reg 57	Reg 3
<b>Screening</b>	Reg 5 - 7	Reg 5 – 7	Regs 5, 7 and 33	N/A	Reg 56	Reg 4
<b>Scoping</b>	Reg 14 - 15	N/A	Regs 14, 15 and 33	N/A	N/A	Reg 6
<b>Application without ES</b>	Reg 8 – 13	Reg 8 – 13	Reg 8-13 and 33	N/A	N/A	Reg 5
<b>SNH to give info=</b>	Reg 15	Reg 15	Reg 15	N/A	Reg 58	Reg 7
<b>Publicity</b>	Reg 13, 17 and 18	Reg 17 and 18	Reg 17, 18 and 33	Reg 49 & 50 amend S20A & 55A RSA 84	Reg 59	Reg 8
<b>Consultations</b>	Reg 19 – 22	Reg 19 – 22	Reg 19 – 22 and 33		Reg 59	Reg 9

**Annexe 2 Table 3: Key Information And References In Each Of The EIA Regulations Part 1**

Project Type	Dev requiring PP including Marine fish farms	Unauthorised dev appeal	Review of Old Mineral Permissions	Motorways and trunk roads	Drainage Improvements	Marine Fish Farming other than that requiring PP
Further Info	Reg 23	Reg 23	Reg 23 and 33	N/A	Reg 60	Reg 10
Transboundary	Reg 36	Reg 36	Reg 36	Reg 49 amends S20 & S55 RSA 84	N/A	N/A
Public Cons period	At least 4 weeks	At least 4 weeks	At least 4 weeks	3 weeks	28 days (LDSA Schedule 1, Part I, S5 )	At least 28 days
SNH Cons period	At least 4 weeks	At least 4 weeks	At least 4 weeks	Opportunity to express an opinion	28 days (LDSA Schedule 1, Part I, S4 )	At least 28 days
Final decision/ records	Reg 26	Reg 26	Regs 20 – 21 of 1999 as amended	Reg 52 amends Sch 1 RSA 84	N/A	Reg 11
Sch 1 Schedule 1 projects	Sch 1	Sch 1	Sch 1	Sch 1	N/A	N/A
Schedule 2 projects	Sch 2	Sch 2	Sch 2	Sch 2	Sch 2	N/A
Matters to consider	Sch 3	Sch 3	Sch 3	Sch 3	Sch 3	N/A
Content of ES	Sch 4	Sch 4	Sch 4	Sch 4	Sch 4	N/A

**Annexe 2 Table : Key Information And References In Each Of The EIA Regulations Part 2**

Project Type	Forestry Works	Agriculture – Semi-Natural Areas & Rural Holdings	Water Management for Agriculture	Electricity power stations (over 50MW) and overhead lines	Offshore Electricity power stations over 1MV	Gas Pipelines not requiring PP
<b>Competent Authority</b>	FC or on appeal Scottish Ministers	Scottish Ministers	PA or Scottish Ministers	Scottish Ministers	Scottish Ministers	Scottish Ministers
<b>Consent Procedure</b>	Consent of the FC for afforestation, deforestation, forest tracks and quarries	All projects to be screened, relevant projects require consent under the Regs	Relevant irrigation or drainage or other water management works for agriculture require planning permission	All power stations on and offshore over 50MW require SM consent under S36 (Power Station) or S37 (Overhead lines) of Electricity Act 1989	All offshore power stations driven mainly by water or wind over 1MW require consent of SM under S36 of Electricity Act 1989 so Electricity Works EIASR 00 (EW EIASR 00) apply	Consent under Reg 14 of these Regs for development under Part 17 Class Fa of the TCP (GPD0) 92 where subject to an environmental determination by SM
<b>EIA Regs</b>	EIA Forestry 99	EIA Agriculture 06	EIA Water 03	EIA Electricity 00 as amended by EIA Electricity Works Amendment Regs 08	EIA Offshore Gen 02	EIA Gas Trans 99
<b>Jurisdiction</b>	Scotland	Scotland	Scotland	Scotland	Scotland	Great Britain
<b>Statutory Instrument</b>	SSI 1999/43	SSI 2006/582	SSI 20003/341	SSI 2000/320	SSI 2002/407	S.I. 1999/1672
<b>Came into force</b>	6.9.1999	1.1.2007	30.9.2003	5.10.2000	26.9.2002	15.7.1999
<b>Interpretation</b>	Reg 2 and 3	Reg 2	Reg 2 EIASR 11	Reg 2	Reg 2 of EW EIASR 00	Reg 2
<b>Compliance</b>	Reg 4	Reg 8	Reg 3 EIASr 11	Reg 3 – 4	Reg 3- 4 of EW EIASR 00	Reg 3
<b>Screening</b>	Reg 5 – 8	Regs 4 – 7	Reg 5 – 7 EIASR 11	Reg 5	Reg 5 of EW EIASR 00	Reg 6
<b>Scoping</b>	Reg 9	Regs 9	Reg 14 – 15 EIASR 11	Reg 7	Reg 7 of EW EIASR 00	Reg 7
<b>Application without ES</b>	N/A	Reg 11	Reg 8 – 13 EIASR 11	Reg 6	Reg 6 of EW EIASR 00	
<b>SNH to give info</b>	Reg 12	Reg 10	Reg 15 EIASR 11	Reg 8 + 15	Reg 8 + 15 of EW EIASR 00	Reg 9
<b>Publicity</b>	Reg 13	Reg 11	Reg 13, 17 and 18 EIASR 11	Reg 9 – 11 + 14	Reg 9 – 11 + 14 of EW EIASR 00	Reg 10
<b>Consultations</b>	Reg 13	Reg 11	Reg 19 – 22 EIASR 11	Reg 11	Reg 11 of EW EIASR 00	Reg 10
<b>Further info</b>	Reg 11	Reg 12	Reg 23 EIASR 11	Reg 13	Reg 13 of EW EIASR 00	Reg 11

**Annexe 2 Table 3: Key Information And References In Each Of The EIA Regulations Part 2**

Project Type	Forestry Works	Agriculture – Semi-Natural Areas & Rural Holdings	Water Management for Agriculture	Electricity power stations (over 50MW) and overhead lines	Offshore Electricity power stations over 1MV	Gas Pipelines not requiring PP
<b>Transboundary</b>	Reg 14	Regs 13 and 14	Reg 36 EIASR 11	Reg 12	Reg 12 of EW EIASR 00	Reg 13
<b>Public Cons period</b>	28 days maximum	42 days maximum (28 for further information)	At least 4 weeks	At least 4 weeks after publicity	At least 4 weeks after publicity	At least 28 days
<b>SNH Cons period</b>	28 days maximum	42 days maximum	At least 4 weeks	28 days	28 days	At least 28 days
<b>Final decision / records</b>	Reg 15, 16 + 24	Regs 15	Reg 26 EIASR 11	N/A	N/A	Reg 8
<b>Schedule 1 projects</b>	N/A	N/A	Sch 1 EIASR 11	Sch 1	Sch 1 of EW EIASR 00	Sch 3
<b>Schedule 2 projects</b>	N/A	Reg 6 & Sch 1	Sch 2 EIASr 11	Sch 2	Sch 2 of EW EIASR 00	Sch 3
<b>Matters to consider</b>	Sch 2 & 3	Sch 2	Sch 3 EIASR 11	Sch 3	Sch 3 of EW EIASR 00	Sch 2
<b>Content of ES</b>	Sch 1	Sch 3	Sch 4 EIASr 11	Sch 4	Sch 4 of EW EIASR 00	Sch 1

**Annexe 2 Table 3: Key Information And References In Each Of The EIA Regulations Part 3**

Project Type	Offshore Oil and Gas and Pipelines	Other Pipelines	Decommissioning Nuclear Installations	Marine Works including ports and harbours	Marine Dredging	Transport and Works Act projects
<b>Competent Authority</b>	Secretary of State	Secretary of State	Health & Safety Executive	Scottish Ministers	Scottish Ministers	Scottish Ministers
<b>Consent Procedure</b>	Prior consent required by a licence to explore, produce or transport oil & gas granted under provisions of Petroleum Act 1998	Pipeline construction authorisation under Pipelines Act 1962	Nuclear Installations act 1965 Licensees apply for consent under Reg 8	Consents under S34 or S35 Coast Protection Act 1949; S37 Merchant Shipping Act 1988; any local Act; Harbour Revision or Empowerment Orders under Harbours Act 1964; consents under the Food and Environment Protection Act 1985	Consent for dredging of aggregates in the marine environment	Orders under the 2007 T&W Scotland Act for railways, trams, other transport systems, canals and inland waterways
<b>EIA Regs</b>	EIA Offshore 99	EIA Pipelines 00	EIA Nuclear 99	EIA Marine Works 07	EIA Marine Works 07	EIA Trans & Works 07
<b>Jurisdiction</b>	UK	E, S & W	Great Britain	GB & NI	GB & NI	Scotland
<b>Statutory Instrument</b>	S.I 1999/360	S.I. 2000/1928	S.I. 1999/2892	S.I. 2007/1518	S.I. 2007/1518	S.S.I. 2007/570
<b>Came into force</b>	14.3.1999	1.9.2000	19.11.1999	24.6.2007	24.6.2007	28.12.2007
<b>Interpretation</b>	Reg 3	Reg 2	Reg 2	Reg 2	Reg 2	Rule 2
<b>Compliance</b>	Regs 4, 5 + 11	Reg 3	Reg 3 – 5 + 8	Reg 4 & 12	Reg 4 & 12	Rules 3 - 8
<b>Screening</b>	Reg 6, 11 + 12	Reg 4	N/A	Reg 6 – 11 & Sch 1 and 2	Reg 6 – 11 & Sch 1 and 2	Rule 5 & Sch 5
<b>Scoping</b>	Reg 7	Reg 5	Reg 6	Reg 13 & Sch 4	Reg 13 & Sch 4	Rule 6
<b>Application without ES</b>	Reg 5	Reg 11 – 13	Reg 16	Reg 12	Reg 12	Reg 9
<b>SNH to give info</b>	Reg 5 + 8	Reg 6	Reg 7	Reg 15	Reg 15	Rule 4
<b>Publicity</b>	Reg 9 + 10	Reg 7 – 8	Reg 9	Reg 16	Reg 16	Rule 12
<b>Consultations</b>	Reg 9 + 10	Reg 7	Reg 8 – 9	Reg 17	Reg 17	Rules 3 & 11 & Sch 3
<b>Further info</b>	Reg 10	Reg 8	Reg 10	Reg 14	Reg 14	Rules 15 & 18 & Sch 2 Form 5

**Annexe 2 Table 3: Key Information And References In Each Of The EIA Regulations Part 3**

Project Type	Offshore Oil and Gas and Pipelines	Other Pipelines	Decommissioning Nuclear Installations	Marin Works including ports and harbours	Marine Dredging	Transport and Works Act projects
<b>Transboundary</b>	Reg 5 + 12	Reg 3	Reg 8 + 12	Reg 18 - 20	Reg 18 - 20	
<b>Public Cons period</b>	4 weeks	28 days	30 days	42 days	42 days	As specified in notice of application
<b>SNH Cons period</b>	4 weeks	28 days	Such reasonable time as HSE may specify + 14 days for further info=	42 days	42 days	As specified in notice of application
<b>Final decision / records</b>	Reg 5	Reg 3	Reg 11	Reg 22 – 24	Reg 22 – 24	
<b>Schedule 1 projects</b>	N/A	N/A	N/A	Reg 7	Reg 7	Sch 5
<b>Schedule 2 projects</b>	N/A	N/A	N/A	Reg 8	Reg 8	Scg 5
<b>Matters to consider</b>	Sch 1	Sch 2	Sch 2	Reg 8 and Sch 1	Reg 8 and Sch 1	Sch 5 and Annex III of the Directive
<b>Content of ES</b>	Sch 2	Sch 1	Sch 1	Sch 3	Sch 3	Rule 9 & Sch 1



## Annexe 3 – Current relevant national policy and guidance

This Annexe is listed in date order.

Guidance	Commentary
<b>Scottish Executive Development Department Circular 3/2003 The Environmental Impact Assessment (Water Management) (Scotland) Regulations 2003 Nov 2003</b>	Explains the regulations that amend the definition of development to include carrying out of irrigation or drainage or other water management works for agriculture so making such projects potentially EIA development subject to the EIASR 99.
<b>Scottish Executive Development Department PAN 51, Planning Environmental Protection and Regulation, revised 2006</b>	This Planning Advice Note provides background information and advice on good practice in the planning process with reference to pollution control and other forms of environmental protection, with obvious relevance to the EIA process.
<b>Scottish Government Department for Environment, Food and Rural Affairs Explanatory Memorandum to the Marine Works (Environmental Impact Assessment) Regulations 2007</b>	Provides an explanation of new legislation relating to EIA for deposits at sea and on the sea bed and other works requiring a license under the Food and Environment Protection Act 1985, works to ensure navigational safety at sea and harbour works.
<b>Forestry Commission, Environmental Impact Assessment of Forestry Projects April 2007</b>	Provides guidance on the 2006 EIA Regulations relating to Forestry including the consenting and screening procedures.
<b>Scottish Executive Environment and Rural Affairs Department (SEERAD) Guidelines on Environmental Impact Assessment (EIA) for Agriculture December 2007.</b>	Provides guidance on the 2006 EIA Regulations relating to Agriculture including the consenting and screening procedures, but the content of this guidance is under review.
<b>Scottish Government Guidance on the Electricity (Environmental Impact Assessment) (Scotland) Amendment Regulations 2008</b>	Provide guidance on the EIA process, public notices and judicial review for electricity works in Scotland.
<b>Scottish Government Circular 3/2011 The Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011</b>	This Circular provides comprehensive guidance on the EIA process with particular emphasis on projects requiring planning permission. It includes special cases such as the review of old mineral permissions and multi-stage consents. The 2011 Regulations are referred to in the Handbook as the 'principal regulations'. <a href="http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf">http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf</a>
<b>Scottish Executive Development Department PAN 1/2013, Environmental Impact Assessment</b>	This Planning Advice Note provides background information and advice on good practice in the EIA. The Principal Regulations and Circular 3/2011 take precedence over the advice contained in the PAN, which the Scottish Government intends to update in due course.

# Annexe 4 – Projects requiring environmental impact assessment

## Annex 1 (of the Directive) Developments requiring EIA in every case

1. Crude-oil refineries (excluding undertakings manufacturing only lubricants from crude oil) and installations for the gasification and liquefaction of 500 tonnes or more of coal or bituminous shale per day.
2. Thermal power stations and other combustion installations with a heat output of 300 megawatts or more and nuclear power stations and other nuclear reactors (except research installations for the production and conversion of fissionable and fertile materials, whose maximum power does not exceed one kilowatt continuous thermal load).
3. Installations for the reprocessing of irradiated nuclear fuel; installations designed for the production or enrichment of nuclear fuel; for the processing of irradiated nuclear fuel or high-level radioactive waste; for the final disposal of irradiated nuclear fuel; solely for the final disposal of radioactive waste; solely for the storage (planned for more than 10 years) of irradiated nuclear fuels or radioactive waste in a different site than the production site.
4. Integrated works for the initial smelting of cast-iron and steel. Installations for the production of non-ferrous crude metals (as described and further specified in Schedule 1(4) of the EIASR 11).
5. Installations for the extraction of asbestos and for the processing and transformation of asbestos and products containing asbestos:
  - a] where the installation produces asbestos-cement products, with an annual production of more than 20,000 tonnes of finished products,
  - b] where the installation produces friction material, with an annual production of more than 50 tonnes of finished products, and
  - c] other cases where the installation will utilise more than 200 tonnes of asbestos per year.
6. Integrated chemical installations (as described and further specified in Schedule 1(6) of the EIASR 11 ).
7. Construction of motorways, express roads and other roads of four or more lanes and the realignment or widening of roads to provide 4 or more lanes where the road would be 10 km or more continuous length. Lines for long-distance railway traffic and airports with a basic runway length of 2,100m or more.
8. Trading ports and construction of piers for loading and unloading connected to land outside ports and also inland waterways and ports for inland-waterway traffic which permit the passage of vessels of over 1,350 tonnes.
9. Waste-disposal installations for the incineration or chemical treatment or landfill of hazardous waste.
10. Incineration or chemical treatment of non-hazardous wastes (installations with a capacity of more than 100 tonnes per day).
11. Ground water abstraction or artificial recharge schemes exceeding 10 million cubic metres per year.
12. Transfer of water resources other than piped drinking water between river basins above 100 million cubic metres per year or over 5% of flows where the abstracted river exceeds a flow of 2000 million cubic metres per year.
13. Waste water treatment plants (over 150,000 population equivalents).
14. Extraction of petroleum (more than 500 tonnes per day) and natural gas (over 500,000cubic metres per day).
15. Dams and similar installations, with water holdback capacity exceeding 10 million m.
16. Pipelines to transport oil, gas or chemicals (more than 40km long and 800mm diameter).
17. Installations for intensive rearing of poultry or pigs above 85,000 broilers, 60,000 hens, 3,000 pigs over 30kg or 900 sows.
18. All pulp and those paper and board factories over 200 tonnes/day production.

19. Quarries and opencast mining (over 25 ha) and peat extraction (over 150 ha).
20. Installations for storage of petrol, petrochemical or chemical products (200,000 tonnes and over).
21. Storage sites for carbon dioxide in accordance with the CCs Directive.
22. Installations for capturing gases intended for storage under the CCS Directive where the capture is 1.5 Megatonnes or more per year.
23. Any change to or extension of development in this Annex 4 where the change or extension on its own meets the thresholds of this Annexe 4.

## Annex 2 (of the Directive) Developments

Requiring assessment if they are likely to have significant effects on the environment by virtue, inter alia, of their nature, size or location. The carrying out of development to provide any of the following-

Column 1 Description of development	Column 2 Applicable thresholds/criteria
<b>1. Agriculture and aquaculture</b>	
1(a) Projects for the use of uncultivated land or semi-natural areas for intensive agricultural purposes	The area of the development exceeds 0.5 hectare
1(b) Water management projects for agriculture, including drainage projects but excluding irrigation projects	i) the area of the works exceeds one hectare
1(c) Intensive livestock installations (unless included in Schedule 1)	The area of new floorspace exceeds 500 square metres
1(d) Intensive fish farming	(i) The installation resulting from the development is designed to produce more than 10 tonnes of dead weight fish per year;  (ii) where the development is situated in marine waters, the development is designed to hold a biomass of 100 tonnes or greater; or  (iii) the development will extend to 0.1 hectare or more of the surface area of the marine waters, including any proposed structures or excavations.
1(e) Reclamation of land from sea	All development
<b>2. Extractive Industry</b>	
2(a) Quarries, open-cast mining and peat extraction (unless included in Schedule 1) 2(b) Underground mining	All development except the construction of buildings or other ancillary structures where the new floorspace does not exceed 1,000 square metres
2(c) Extraction of minerals by marine or fluvial dredging	All development
2(d) Deep drillings, in particular - (i) geothermal drilling; (ii) drilling for the storage of nuclear waste material; (iii) drilling for water supplies;  with the exception of drillings for investigating the stability of the soil	(i) In relation to any type of drilling, the area of the works exceeds 1 hectare; or  (ii) in relation to geothermal drilling and drilling for the storage of nuclear waste material, the drilling is within 100 metres of any controlled waste
2(e) Surface industrial installations for the extraction of coal, petroleum, natural gas and ores, as well as bituminous shale	The area of the development exceeds 0.5 hectare

Column 1 Description of development	Column 2 Applicable thresholds/criteria
<b>3. Energy industry</b>	
3(a) Industrial installations for the production of electricity, steam and hot water (unless included in Schedule 1)	The area of the development exceeds 0.5 hectare
3(b) Industrial installations for carrying gas, steam and hot water	The area of the works exceeds 1 hectare
3(c) Surface storage of natural gas 3(d) Underground storage of combustible gases 3(e) Surface storage of fossil fuels	(i) The area of any new building, deposit or structure exceeds 500 square metres; or (ii) a new building, deposit or structure is to be sited within 100 metres of any controlled waters
3(f) Industrial briquetting of coal and lignite	The area of new floorspace exceeds 1,000 square metres
3(g) Installations for the processing and storage of radioactive waste (unless included in Schedule 1)	(i) The area of new floorspace exceeds 1,000 square metres; or (ii) the installation resulting from the development will require an authorisation or the variation of an authorisation under the Radioactive Substances Act 1993
3(h) Installations for hydroelectric energy production	The installation is designed to produce more than 0.5 megawatts
3(i) Installations for the harnessing of wind power for energy production (wind farms)	(i) The development involves the installation of more than 2 turbines; or (ii) the hub height of any turbine or height of any other structure exceeds 15 metres.
<b>4. Production and processing of metals</b>	
4(a) Installations for the production of pig iron or steel (primary or secondary fusion) including continuous casting 4(b) Installations for the processing of ferrous metals- (i) hot-rolling mills; (ii) smitheries with hammers; (iii) application of protective fused metal coats 4(c) Ferrous metal foundries 4(d) Installations for the smelting, including the alloyage, of non-ferrous metals, excluding precious metals, including recovered products (refining, foundry casting, etc.) 4(e) Installations for surface treatment of metals and plastic materials using an electrolytic or chemical process 4(f) Manufacture and assembly of motor vehicles and manufacture of motor-vehicle engines 4(g) Shipyards 4(h) Installations for the construction and repair of aircraft 4(i) Manufacture of railway equipment 4(j) Swaging by explosives 4(k) Installations for the roasting and sintering of metallic ores	The area of new floorspace exceeds 1,000 square metres

Column 1 Description of development	Column 2 Applicable thresholds/criteria
<b>5. Mineral industry</b>	
5(a) Coke ovens (dry coal distillation) 5(b) Installations for the manufacture of cement 5(c) Installations for the production of asbestos and the manufacture of asbestos-based products (unless included in Schedule 1) 5(d) Installations for the manufacture of glass including glass fibre 5(e) Installations for smelting mineral substances including the production of mineral fibres 5(f) Manufacture of ceramic products by burning, in particular roofing tiles, bricks, refractory bricks, tiles, stoneware or porcelain.	The area of new floorspace exceeds 1,000 square metres.
<b>6. Chemical industry (unless included in Schedule 1)</b>	
6(a) Treatment of intermediate products and production of chemicals 6(b) Production of pesticides and pharmaceutical products, paint and varnishes, elastomers and peroxides 6(c) Storage facilities for petroleum, petrochemical and chemical products	The area of new floorspace exceeds 1,000 square metres  (i) the area of any building or structure exceeds 0.05 hectare; or  (ii) more than 200 tonnes of petroleum, petrochemical or chemical products is to be stored at any one time.
<b>7. Food industry</b>	
7(a) Manufacture of vegetable and animal oils and fats 7(b) Packing and canning of animal and vegetable products 7(c) Manufacture of dairy products 7(d) Brewing and malting 7(e) Confectionery and syrup manufacture 7(f) Installations for the slaughter of animals 7(g) Industrial starch manufacturing installations 7(h) Fish-meal and fish-oil factories 7(i) Sugar factories	The area of new floorspace exceeds 1,000 square metres.
<b>8. Textile, leather, wood and paper industries</b>	
8(a) Industrial plants for the production of paper and board (unless included in Schedule 1) 8(b) Plants for the pre-treatment (operations such as washing, bleaching, mercerisation) or dyeing of fibres or textiles 8(c) Plants for the tanning of hides and skins 8(d) Cellulose-processing and production installations	The area of new floorspace exceeds 1,000 square metres.
<b>9. Rubber industry</b>	
Manufacturing and treatment of elastomer-based products.	The area of new floorspace exceeds 1,000 square metres.

Column 1 Description of development	Column 2 Applicable thresholds/criteria
<b>10. Infrastructure projects</b>	
10(a) Industrial estate development projects 10(b) Urban development projects, including the construction of shopping centres and car parks, sports stadiums, leisure centres and multiplex cinemas 10(c) Construction of intermodal transshipment facilities and of intermodal terminals (unless included in Schedule 1)	The area of the development exceeds 0.5 hectare.
10(d) Construction of railways (unless included in Schedule 1)	The area of the works exceeds 1 hectare.
10(e) Construction of airfields (unless included in Schedule 1)	(i) The development involves an extension to a runway; or (ii) the area of the works exceeds 1 hectare
10(f) Construction of roads (unless included in Schedule 1) 10(g) Construction of harbours and port installations, including fishing harbours (unless included in Schedule 1) 10(h) Inland-waterway construction not included in Schedule 1, canalisation and floor-relief works 10(i) Dams and other installations designed to hold water or store it on a long-term basis (unless included in Schedule 1) 10(j) Tramways, elevated and underground railways, suspended lines or similar lines of a particular type, used exclusively or mainly for passenger transport	The area of the works exceeds 1 hectare.
10(k) Oil and gas pipeline installations and pipelines for the transport of carbon dioxide streams for the purposes of geological storage (unless included in Schedule 1) 10(l) Installations of long-distance aqueducts	(i) The area of the works exceeds 1 hectare; or (ii) in the case of a gas pipeline, the installation has a design operating pressure exceeding 7 bar gauge.
10(m) Coastal work to combat erosion and maritime works capable of altering the coast through the construction, for example, of dykes, moles, jetties and other sea defence works, excluding the maintenance and reconstruction of such works	All development
10(n) Groundwater abstraction and artificial groundwater recharge schemes not included in Schedule 1 10(o) Works for the transfer of water resources between river basins not included in Schedule 1	The area of the works exceeds 1 hectare.
10(p) Motorway service areas.	The area of the development exceeds 0.5 hectare.

Column 1 Description of development	Column 2 Applicable thresholds/criteria
<b>11. Other projects</b>	
11(a) Permanent racing and test tracks for motorised vehicles	The area of the development exceeds 1 hectare.
11(b) Installations for the disposal of waste (unless included in Schedule 1)	(i) The disposal is by incineration; or (ii) the area of the development exceeds 0.5 hectare; or (iii) the installation is to be sited within 100 metres of any controlled waters.
11(c) Waste-water treatment plants (unless included in Schedule 1))	The area of development exceeds 1,000 square metres
11(d) Sludge-deposition sites 11(e) Storage of scrap iron, including scrap vehicles	(i) The area of deposit or storage exceeds 0.5 hectare; or (ii) a deposit is to be made or scrap stored within 100 metres of any controlled waters
11(f) Test benches for engines, turbines or reactors 11(g) Installations for the manufacture of artificial mineral fibres 11(h) Installations for the recovery or destruction of explosive substances 11(i) Knackers' yards	The area of new floorspace exceeds 1,000 square metres
<b>12. Tourism and leisure</b>	
12(a) Ski-runs, ski-lifts and cable cars and associated developments)	(i) The area of the works exceeds 1 ha; or (ii) the height of any building or other structure exceeds 15 metres.
12(b) Marinas	The area of the enclosed water surface exceeds 1,000 square metres.
12(c) Holiday villages and hotel complexes outside urban areas and associated developments 12(d) Theme parks	The area of the development exceeds 0.5 ha.
12(e) Permanent camp sites and caravan sites 12(f) Golf courses and associated developments	The area of the development exceeds 1 ha.



Column 1 Description of development	Column 2 Applicable thresholds/criteria																																																				
<b>13. Changes or extensions</b>																																																					
<p>13. Any change to or extension of development of a description listed in Schedule 1 or in paragraphs 1 to 12 of Column 1 of this table, where that development is already authorised, executed or in the process of being executed, and the change or extension may have significant adverse effects on the environment</p> <p>14. Any change to or extension of development of a description mentioned in Schedule 1 (other than a change or extension following within paragraph 23 of Schedule 1) where that development is already authorised, executed or in the process of being executed and the change or extension may have significant adverse effects on the environment</p>	<p>(i) In relation to development of a description mentioned in Column 1 of this table, the thresholds and criteria in the corresponding part of Column 2 of this table applied to the development as changed or extended</p> <p>(ii) In relation to development of a description mentioned in a paragraph in Schedule 1 indicated below, the thresholds and criteria in Column 2 of the paragraph of this table indicated below applied to the development as changed or extended</p> <table border="0"> <thead> <tr> <th data-bbox="879 745 999 792">Paragraph in Schedule 1</th> <th data-bbox="1078 745 1198 792">Paragraph of this table</th> </tr> </thead> <tbody> <tr><td>1</td><td>6(a)</td></tr> <tr><td>2(1)</td><td>3(a)</td></tr> <tr><td>2(2)</td><td>3(g)</td></tr> <tr><td>3</td><td>3(g)</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td></tr> <tr><td>6</td><td>6(a)</td></tr> <tr><td>7(1)</td><td>10(d) (in relation to railways) or 10(e) (in relation to airports)</td></tr> <tr><td>7(2) and (3)</td><td>10(f)</td></tr> <tr><td>8(1)</td><td>10(h)</td></tr> <tr><td>8(2)</td><td>10(g)</td></tr> <tr><td>9</td><td>11(b)</td></tr> <tr><td>10</td><td>11(b)</td></tr> <tr><td>11</td><td>10(n)</td></tr> <tr><td>12</td><td>10(o)</td></tr> <tr><td>13</td><td>11(c)</td></tr> <tr><td>14</td><td>2(e)</td></tr> <tr><td>15</td><td>10(i)</td></tr> <tr><td>16</td><td>10(k)</td></tr> <tr><td>17</td><td>1(c)</td></tr> <tr><td>18</td><td>8(a)</td></tr> <tr><td>19</td><td>2(a)</td></tr> <tr><td>20</td><td>6(c)</td></tr> <tr><td>21</td><td>3(j)</td></tr> <tr><td>22</td><td>3(j)</td></tr> </tbody> </table>	Paragraph in Schedule 1	Paragraph of this table	1	6(a)	2(1)	3(a)	2(2)	3(g)	3	3(g)	4	4	5	5	6	6(a)	7(1)	10(d) (in relation to railways) or 10(e) (in relation to airports)	7(2) and (3)	10(f)	8(1)	10(h)	8(2)	10(g)	9	11(b)	10	11(b)	11	10(n)	12	10(o)	13	11(c)	14	2(e)	15	10(i)	16	10(k)	17	1(c)	18	8(a)	19	2(a)	20	6(c)	21	3(j)	22	3(j)
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11	10(n)																																																				
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13	11(c)																																																				
14	2(e)																																																				
15	10(i)																																																				
16	10(k)																																																				
17	1(c)																																																				
18	8(a)																																																				
19	2(a)																																																				
20	6(c)																																																				
21	3(j)																																																				
22	3(j)																																																				
<p>15. Development of a description mentioned in Schedule 1, undertaken exclusively or mainly for the development and testing of new methods or products and not used for more than two years.</p>	<p>All development..</p>																																																				

## Selection criteria for screening schedule 2 (Annex 2) development

These criteria are specified in Regulation 4(5) and Schedule 3 of the principal regulations (Annex A Circular 8/2007).

### 1. Characteristics of development

The characteristics of development must be considered having regard, in particular to:

- (a) the size of the development;
- (b) the cumulation with other development;
- (c) the use of natural resources;
- (d) the production of waste;
- (e) pollution and nuisances;
- (f) the risk of accidents, having regard in particular to substances or technologies used.

### 2. Location of development

The environmental sensitivity of geographical areas likely to be affected by development must be considered, having regard, in particular, to:

- (a) the existing land use;
- (b) the relative abundance, quality and regenerative capacity of natural resources in the area;
- (c) the absorption capacity of the natural environment, paying particular attention to the following areas:
  - i. wetlands;
  - ii. coastal zones;
  - iii. mountain and forest areas;
  - iv. nature reserves and parks;
  - v. areas classified or protected under Member States' legislation; areas designated by Member States pursuant to Council Directive 79/409/EEC on the conservation of wild birds<sup>1</sup> and Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora<sup>2</sup>;
  - vi. areas in which the environmental quality standards laid down in Community legislation have already been exceeded;
  - vii. densely populated areas;
  - viii. landscapes of historical, cultural or archaeological significance.

### 3. Characteristics of the potential impact

The potential significant effects of development must be considered in relation to criteria set out under paragraphs 1 and 2 above, and having regard in particular to:

- a) the extent of the impact (geographical area and size of the affected population);
- b) the transfrontier nature of the impact;
- c) the magnitude and complexity of the impact;
- d) the probability of the impact;
- e) the duration, frequency and reversibility of the impact.

## Annexe 5 – Annotated references

- (1) Scottish Government Circular 32011, Guidance on The Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011:  
<http://www.scotland.gov.uk/Resource/Doc/350238/0117228.pdf>

This Circular provides comprehensive guidance on the principal regulations with a particular focus on the EIA process for planning applications (including multi-stage consents) and the review of old mineral permissions.

- (2) Scottish Executive Development Department PAN 1/2013, Environmental Impact Assessment:  
<http://www.scotland.gov.uk/Resource/0043/00432581.pdf>

This Planning Advice Note provides advice on good practice in the EIA process for planning authorities and consultation bodies and seeks to promote three key principles; integration with the development management process, proportionate EIA focusing on significant environmental impacts and efficiency.

- (3) Codified Directive 2011/92/EU of the European Parliament and of the Council of 13 December 2011 on the assessment of the effects of certain public and private projects on the environment.

Directive 85/337/EC is the original Directive which triggered statutory EIA and there have been various extensive revisions since it was first introduced. In 2011, the original Directive and its various amendments were consolidated into Directive 2011/92/EU.

- (4) Town and Country Planning (Environmental Impact Assessment) (Scotland) Regulations 2011:  
<http://www.legislation.gov.uk/ssi/2011/139/contents/made>

The current principal regulations primarily focused on the town and country planning system. There are various other regulations applicable to other regimes with further information provided in Annexe 2 to this Handbook.

- (5) Directive 2003/35/EC, known as the 'Public Participation Directive':  
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32003L0035:EN:HTML>

The Public Participation Directive was introduced to align European law with the Aarhus Convention on Access to Information, Public Participation in Decision-Making and Access to Justice in Environmental Matters.

- (6) Institute of Environmental Assessment, Guidelines for Baseline Ecological Assessment, 1995, Spons.

The most authoritative and widely recognised and adopted best practice guide for ecological baseline studies in the environmental assessment process. Recommended as good practice guidance by all relevant Institutes. See particularly Appendix 2 of this Handbook.

- (7) Institute of Environmental Assessment/The Landscape Institute, Guidelines for Landscape and Visual Impact Assessment, 2013, Third Edition, Routledge.

The most authoritative and widely recognised and adopted best practice guide for landscape and visual impact assessment in the environmental assessment process. Recommended as good practice guidance by all relevant Institutes. See particularly [Appendix 1](#) of this Handbook.

- (8) Chartered Institute of Ecology and Environmental Management, Guidelines for Ecological Impact Assessment in the United Kingdom, June 2006.

These guidelines update and build upon the 1995 Guidelines for Baseline Ecological Assessment and are endorsed by SNH.

- (9) Chartered Institute of Ecology and Environmental Management, Guidelines for Ecological Impact Assessment in Britain and Ireland: Marine and Coastal, August 2010.

These guidelines build upon the June 2006 Guidelines to provide guidance on the ecological impact assessment for marine and coastal works.

- (10) Environmental Information (Scotland) Regulations 2004 implementing the EC Directive 90/313/EC On Freedom of Access to Information on the Environment:  
<http://www.legislation.gov.uk/ssi/2004/520/contents/made>

EC Directive ensuring that the public has a right of access to environmental information, applied in the UK through the 2004 Regulations.

- (11) European Commission, Directive 85/337/EEC on the assessment of the effects of certain public and private projects on the environment (EIA Directive): Interpretation of definitions of certain project categories of Annex I and II of the EIA Directive, 2008.

Guidance from the European Commission on their suggested interpretation of the various categories of projects listed in Annex I and II of the EIA Directive. It should be noted that the interpretations in this document are the views of the Commission and ultimately it is for the ECJ to interpret the EIA Directive.

- (12) European Commission, Environmental Impact Assessment of Projects: Rulings of the Court of Justice, 2013.

This guidance document discusses rulings of the ECJ and opinions of the Advocate-General in some of the most important ECJ cases on EIA.

- (13) (a) Jones, C E, Lee N and Wood C (1991). UK Environmental Statements 1988-1990: An Analysis. Occasional Paper 29, University of Manchester EIA Centre
- (b) Lee, N and Colley R (1990) Reviewing the Quality of Environmental Statements Occasional Paper 24, Department of Planning and Landscape, University of Manchester.
- (c) Lee, N & Colley, R, Reviewing the Quality of Environmental Statements Occasional Papers, Department of Planning and Landscape, University of Manchester 24, 2nd Edition, 1992, Manchester University.
- (d) Jones, C, Lee, N, & Wood, C, UK Environmental Statements 1988 - 1990 An Analysis, Occasional Papers, Department of Planning and Landscape, University of Manchester 29, 1991, Manchester University.
- (e) Environmental Impact Assessment Centre, University of Manchester, for Dept of Environment, Monitoring Environmental Assessment and Planning, 1991 HMSO.

A series of readable, well researched studies analysing the effectiveness of environmental assessment for a variety of clients and for University research purposes. The Centre is highly regarded internationally as one of excellence in the field of environmental assessment.

- (14) Catlow J and Thirlwall G, Environmental Assessment, Report to Department of the Environment, 1977, HMSO.

The first officially commissioned report on environmental assessment in the UK, now difficult to obtain but still remarkably relevant to present day issues. It would have formed the basis of UK legislation had this not been overtaken by the EC Directive coming into force in July 1988.

- (15) Wood C & Jones C: The Effect Of Environmental Assessment On Planning Decisions; Workshop at Manchester University, July (1995).

A useful and reasonably succinct resume of the relationship between the environmental assessment process and decision making in planning authorities. Scotland is not well covered.

# Annexe 6 – Historical Development of Environmental Impact Assessment in Scotland

## First UK Examples in Scotland

An.6.1 The first examples of Environmental Impact Assessment in the UK occurred in Scotland, in the early 1970's, in relation to the major infrastructure developments for North Sea oil and gas installations on the Firth of Forth. These commendable early attempts to use the process of Environmental Impact Assessment were entirely voluntary. Environmental Impact Assessment was not introduced as a statutory requirement until 1988. This section briefly outlines the historical development of Environmental Assessment, internationally and nationally, to provide an understanding as to why the process was introduced, its original intentions and to shed light on the current approaches to Environmental Impact Assessment.

## International Recognition of the Need for Environmental Impact Assessment

An.6.2 A number of factors contributed to the international recognition of the need for and the development of Environmental Impact Assessment. These included:

- The apparent failure of traditional project appraisal techniques such as Cost/Benefit Analysis (CoBA) to account for intangible environmental effects;
- The growth of environmental awareness particularly in the United States;
- The recognition that the efficiency and profitability of some commercial projects had been affected by the consequent environmental changes they brought about and that unforeseen risks associated with such impacts could be environmentally damaging and commercially unacceptable;
- A number of widely reported disasters which highlighted the risks to the environment from human activities such as: the mercury poisoning from a factory in Minamata, Japan (1952-1960); recognition of the effects of the Aswan Dam on the fertility of the Nile valley; and the Torry Canyon oil spill in the English Channel (1967).

## US Legislation 1969

An.6.3 The first legislation requiring environmental assessment was enacted in the US in 1969. The National Environmental Policy Act was adopted by the Nixon administration in 1970. Amongst other things, the Act required federal agencies to include in every recommendation for legislation, and other major federal actions that may significantly affect the quality of the human environment, a detailed statement to assess:

- the environmental impacts of the proposed action;
- any unavoidable adverse environmental effects should the proposal go ahead;
- alternatives to the proposed action;
- relationship between local short term uses of man's environment and the maintenance and enhancement of long term productivity;
- any irreversible and irretrievable commitments of resources which would be involved.

An.6.4 Despite considerable teething problems many of the NEPA's ideas and provisions became widely accepted and it formed a recognised model for Environmental Impact Assessment adopted or adapted by a number of countries around the world.

## Early UK Initiatives

- An.6.5 In the UK the Department of Environment commissioned a report in 1974 which was intended to examine the scope for and feasibility of introducing Environmental Impact Assessment into UK procedures. The report was produced by John Catlow and Geoffrey Thirlwall, in 1976, and eventually published by the Department in 1977(36). The recommendations of that report were progressed so slowly that they were eventually overtaken by the EC Directive requiring Member States to introduce domestic legislation to comply. This, effectively, led to the implementation of many of the recommendations in the 1977 report, but not all of the report's main conclusions have been adopted in statutory form, although many remain relevant as good practice rather than mandatory requirements.
- An.6.6 For example, the 1977 report recognised that analysis should commence early in the preparation of the development proposal to be useful as a design tool and to examine alternatives; that analysis should include economic and social impacts as well as those affecting the physical environment; that the study should be carried out by a team of experts, from a wide range of disciplines, and should be supervised by the planning authority and proposer in cooperation; and that a responsible authority should determine what environmental impacts are likely to be relevant and therefore should be included in the analysis.
- An.6.7 The 1977 report envisaged only a small number of projects ever being appropriate for Environmental Impact Assessment but it soon became evident from the EC Directive that many more projects would have to comply.

## The First EC Directive

- An.6.8 The EC Directive itself had proved to be controversial. It had been circulated as a draft as early as 1980 but there had been severe delays in reaching a standard and policy acceptable to all Member States, some of whom already had Environmental Impact Assessment provisions of their own. Eventually, compromises were found and Environmental Assessment procedures were formally introduced into the European Community through the Directive 85/337/EEC, "The Assessment of the Effects of Certain Public and Private Projects on the Environment". It allowed three years for Member States to implement the proposals through national legislation. UK Regulations were first introduced just after the compliance date, in July 1988, but gaps in compliance have led to a continuing series of further Regulations, those relevant in Scotland being listed in [Annexe 2](#) of this Handbook.
- An.6.9 The principal aims of the Directive were:
- to ensure that the environmental consequences of new development were known and taken into account before any consent could be granted; and
  - to encourage proposers to consider environmental concerns from the earliest stage of project planning and design, when potentially adverse effects can be most effectively and economically addressed.
- An.6.10 It follows from this second objective that proposers were responsible for having the analysis carried out, and needed to promote interaction between project design and environmental concerns.
- An.6.11 The Directive consisted of 14 articles and 3 annexes. The major provisions are listed below:
- Member States must adopt 'all measures necessary' to ensure that 'before consent is given, projects likely to have significant effects on the environment by virtue, among other things, of their nature, size or location are made subject to an assessment with regard to their environmental effects'.
  - Requirements may be integrated into the existing consent procedures of individual states which were allowed considerable discretion in implementation.
  - Exemptions from Environmental Assessment requirements could be made in exceptional circumstances.
  - The types of development affected were those which were "likely to have significant effects on the environment" and were listed in two Annexes to the Directive: Schedule 1 Projects which

should always be subject to Environmental Assessment; and Schedule 2 Projects which may be subject to Environmental Assessment 'if their characteristics so require'.

- Member States were required to develop criteria for deciding when projects listed in Schedule 2 should be subject to Environmental Assessment and to review these criteria periodically.
- The information which should be included in an Environmental Statement was specified, in Annex III, but the
- Directive did not prescribe assessment methods.

## Experience of Statutory Environmental Assessment in the UK and Scotland

An.6.12 Over 1000 environmental statements were submitted in the first five years following the introduction of statutory Environmental Assessment in the UK, in 1988. By February 1999, 347 Environmental Statements had been submitted in Scotland, in respect of all kinds of projects that are subject to Environmental Impact Assessment. 37 of these related to Schedule 1 projects, the others related mainly to minerals (92), waste (66), wind energy (27) and urban projects (32). Self-evidently, this far exceeds the number envisaged by the Government and means that Environmental Impact Assessment is now a well-established and by no means uncommon procedure. The number of Environmental Assessment cases further increased owing to the revised Regulations in 1999 widening the scope of projects requiring EIA.

## Standards and Effectiveness of Environmental Assessment

An.6.13 The debate about Environmental Assessment used to be focused on the number of projects that ought to be subject to assessment and whether there is a need for Environmental Impact Assessment in particular cases. However, it has extended to include a debate about the standards of Environmental Statements and the effectiveness of the procedures. Important research projects, separately undertaken on behalf of the IEA (26), DoE (27) and RSPB (25), have exhibited remarkably consistent conclusions which include a distinct improvement in the quality of Environmental Statements since about 1992.

An.6.14 This appears to be the direct consequence of several important factors, namely:

- a) the wider availability and use of published good practice guidance;
- b) the increasing level of experience of Environmental Impact Assessment particularly in consultancies that have prepared several Environmental Statements;
- c) a wider recognition that Environmental Assessment can be a useful and positive contribution to project design and management;
- d) the increasing proportion of Environmental Statements that have been subject to prior scoping and consultation;
- e) the increasing experience of proposers, Competent Authorities and consultees in dealing with Environmental Impact Assessment and knowing what information to require and how to deal with it.

An.6.15 The best Environmental Statements have been those which involved:

- thorough scoping and continuing consultation;
- experienced assessors working in well-co-ordinated, multi-disciplinary teams with qualified experts dealing with specific topics;
- thorough survey and diligent research to provide comprehensive and up to date information based on standard survey methods;
- objective and impartial analysis of information using good practice techniques;
- clear identification of the nature, scale and significance of all relevant impacts;
- acknowledging limitations in data and understanding of impacts;
- a clear description of all mitigating measures, their effects and effectiveness and how they would be guaranteed;
- a commitment to mitigation, monitoring, review and remedial procedures.

An.6.16 The poorer Environmental Statements were those that:

- failed or inadequately attempted to carry out early liaison and scoping of the issues;
- failed or inadequately attempted to maintain consultation during the whole process;
- failed to address the full scope of effects or to describe the development adequately;
- relied only on existing, often out of date information;
- failed to provide clear baseline data;
- failed to identify all relevant impacts and/or failed to indicate their nature, scale or significance;
- did not address the policy context in which the project would be determined;
- failed to identify/describe all mitigating measures and their effects and effectiveness;
- did not indicate how mitigation could be guaranteed; and
- ignored monitoring.

## The 1999 EIA Regulations

An.6.17 In 1999, the Environmental Impact Assessment (Scotland) Regulations 1999 were introduced to take account of updates to the EIA Directive. The regulations introduced a number of changes related to:

- increasing the range of projects requiring to be assessed;
- taking account of Integrated Pollution Prevention and Control and integrating the provisions of the IPPC Directive 96/61/EC into the EIA process;
- the way in which potential international (transboundary) effects are to be considered;
- environmental interactions;
- screening the need for EIA and thresholds for determining whether assessment may be required;
- increased public information and accountability;
- scoping the content of the Environmental Statement;
- describing the alternatives considered; and
- applying assessment requirements to modifications and extensions of both Schedule 1 and Schedule 2 projects.

An.6.18 Advice on the practical implications of the 1999 Regulations was published in the form of Circular 15/1999 and PAN 58, which contained much more comprehensive guidance on good practice. The regulations together with the practical advice further raised the standards of assessment. It is widely acknowledged that the promotion of good practice by SNH through this Handbook and good practice seminars has further improved the effectiveness of Environmental Impact Assessment in Scotland.

An.6.19 The first Regulations appeared in 1988 with the Environmental Impact Assessment (Scotland) Regulations 1988 (reference 5). These were completely replaced by a new series of Regulations led by the Environmental Impact Assessment (Scotland) Regulations 1999<sup>112</sup> (reference 6). Part II of the EIASR 1999 has now been replaced (with the exception of regulation 47) by the EIASR 11 (abbreviated in this Handbook to ‘the principal regulations’, see A.1.9 above) covering the majority of developments likely to require EIA on land in Scotland. The remaining Parts III, IV and V of the EIASR 99 remain in force. The principal regulations take account of case law and further amendments to the Directive including changes made by Article 3 of Directive 2003/35/EC, known as the ‘Public Participation Directive’<sup>113</sup>, which aligns EIA requirements more closely with the provisions of the Aarhus Convention (reference 5). The principal regulations cover EIA requirements for projects which require planning permission in response to an application under the Town and Country Planning (Scotland) Act 1997, as amended by the Planning etc. (Scotland) Act 2006 (Part II of the principal regulations).

<sup>112</sup> <http://www.legislation.gov.uk/ssi/1999/1/contents/made>

<sup>113</sup> <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32003L0035:EN:HTML>



## Annexe 7 – List of principal legal cases referred to

### In date order with the generally used short name of the case in bold

European Court of Justice, Aannemersbedrijf PK Kraaijeveld BV versus Gedeputeerde Staten van Zuid-Holland October 24 (1996) (**Dutch Dykes**) Case C-72/95. (See [section B.2](#))

Regina v St Edmundsbury Borough Council, ex parte **Walton** (1999) [1999 JPL 805] (See [section C.1](#))

Regina v Rochdale MBC ex parte (1) Andrew **Tew**, (2) George Daniel Milne, (3) Steven Garner Queens Bench Division, Sullivan J., (1999) [2000 JPL 54] (See [sections B.4 and D.11](#))

R (**Hardy**) v Cornwall County Council (2000) [2001 JPL 786] [2001] Env.L.R. 25 (See [section B.7](#))

**Berkeley** v Secretary of State Environment Transport and the Regions (2000) [JPL 2001 58], (See [sections B.6 and B.7](#))

Regina v Rochdale MBC ex parte **Milne** (2000) [2001 JPL 470] (See [sections B.4 and D.11](#))

ECJ WWF v **Bozen** [2000] 2 P.L.R. 1 (See [section B.7](#))

Regina v Secretary of State Environment Transport and the Regions ex parte **Diane Barker** (2001) (See [section D.11](#))

Regina on the application of **Lebus** v South Cambridgeshire DC (2002) [2003 JPL 466] (See [section B.4](#))

**Fernback** and Others v Harrow LBC (2000) [2001 EWHC Admin 278; 2002 Env LR 10] (See [section C.1](#))

**Gillespie** v First Secretary of State and Bellway Urban Renewal (TLR 7/4/2003) [14 LS Gaz R 30] and Bellway Urban Renewal Southern v Gillespie [2003] EWCA Civ 400 (See [section B.4](#))

**Goodman** and another v Lewisham London Borough Council (2003) [TLR 21/2/03] [Env.L.R.28] (See [section B.4](#))

R (**Jones**) v Mansfield DC [2004] Env.L.R. 21 (See [section B.4](#))

R (**Delina Wells**) v Secretary of State Transport, Local Government and the Regions [2004] 1. C.M.L.R. 31 and ECJ C – 201/02 (See [section B.7](#))

R (**Hart District Council**) v The Secretary of State for Communities and Local Government Luckmore Ltd, Barratt Homes Ltd case CO/7623/2007, [2008] EWHC 1204 (Admin); 2008 WL 2148207 (See [section B.4](#))

R (**Baker**) v Bath and North East Somerset District Council [2009] EWHC 595 (Admin) (See [section B.2](#))

R (**Christopher Mellor**) v Secretary for State for Communities and Local Government ECJ Case C-75/08 preliminary ruling 30 April 2009. (See [section C.1](#))

Umweltanwalt von **Karnten** v Karntner Landesregierung 10 December 2009, Case C-205/08 (See [section B.4](#))

**Zeb** v Birmingham City Council [2009] EWHC 3597 (Admin) (See [section C.1](#))

R (**Cooperative Group** Ltd) v Northumberland County Council [2010] EWHC 373 (Admin) (See [section B.4](#))

**Brown** v Carlisle City Council [2010] EWCA Civ 523 (See [section B.4](#))

R (**Bateman**) v South Cambridgeshire District Council [2011] EWCA Civ 157 (See [section C.1](#))

European **Commission v Ireland** 3 March 2011, Case C-50/09 (See [section B.4](#))

**Save Britain's Heritage** v Secretary of State for Communities and Local Government [2011] EWCA Civ 334 (See [section B.4](#))

**Bowen-West** v Secretary of State for Communities and Local Government [2012] EWCA Civ 321 (See [section B.4](#))

R (**Berky**) v Newport City Council [2012] EWCA Civ 378 (See [section C.1](#))

**Threadneedle** Property Investments Ltd v Southwark London Borough Council [2012] EWHC 855 (Admin) (See [section B.4](#))

R (**Loader**) v Secretary of State for Communities and Local Government [2012] EWCA Civ 869 (See [section B.4](#))

R (**Long**) v **Monmouthshire** County Council [2012] EWHC 3130 (Admin) (See [section C.1](#))

Re **Alternative A5 Alliance's** Application for Judicial Review [2013] NIQB 30 (See [section B.4](#))

R (**Burridge**) v Breckland District Council [2013] EWCA Civ 228 (See [section B.4](#))

R (**Catt**) v Brighton and Hove City Council [2013] EWHC 977 (Admin) (See [section B.4](#))

R (**Treagus**) v Suffolk County Council [2013] EWHC 950 (Admin) (See [section B.4](#))

**Feeney** v Secretary of State for Transport [2013] EWHC 1238 (Admin) (See [section B.4](#))

R (**Holder**) v Gedling Borough Council [2013] EWHC 1611 (Admin) (See [section C.1](#))

R (**Save Britain's Heritage**) v Secretary of State for Communities and Local Government [2013] EWHC 2268 (See [section B.4](#))

# Attachment A, Part 1 – Guide to the scoping of an environmental statement

(With emphasis on the natural heritage)

## Note on Use of Part 1 of the Guide

This is intended to assist Competent Authorities and consultees in their responses to a scoping request from a developer. It is not intended, and should not be used, as a framework to enable developers or their agents to produce a scoping report. This is a separate exercise not covered here.

For obvious reasons, the scope of topics is limited here to natural heritage issues but users are encouraged to extend/replace/adapt these issues to cover those which are relevant to them, e.g. the cultural heritage, air quality etc.

Tick appropriate boxes or circle appropriate answers and compile a letter to, or action list for a meeting with, the developer and/or Competent Authority.

### 1. Do you know the site?

**Yes** Go to question 2

**No** Visit site as soon as possible or talk to someone who knows the site well, then, or in the meantime, go to question 2 and on the evidence available:

### 2. Could the proposal affect a natural heritage designation, including:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> National Park | <input type="checkbox"/> Regional Park               | <input type="checkbox"/> Country Park                             |
| <input type="checkbox"/> Picnic Site   | <input type="checkbox"/> NSA                         | <input type="checkbox"/> An Historic Garden or Designed Landscape |
| <input type="checkbox"/> AGLV          | <input type="checkbox"/> Other landscape designation | <input type="checkbox"/> SAC                                      |
| <input type="checkbox"/> SPA           | <input type="checkbox"/> Ramsar Site                 | <input type="checkbox"/> SSI                                      |
| <input type="checkbox"/> MNR           | <input type="checkbox"/> LNR                         | <input type="checkbox"/> Non-statutory wildlife site              |

**Yes** If any boxes ticked ensure developer/Competent Authority is fully aware of designation and its boundaries, interest features/value, reason and purpose of designation, conservation or management objectives etc. Go to Question 3.

**No** Go to Question 3.

### 3. Could the proposal affect any statutory or other important outdoor access facility including?

- Distance Route    Public right of way    Access area/route

Go to question 4.

### 4. Could the proposal affect species or habitats, for example, any

- Protected species    (L)BAP species or habitat

Go to question 5.

### 5. Could the proposal have a significant effect on:

- The character, integrity or distinctiveness of the landscape?

The amenity or enjoyment of the landscape experience including its wildland character?

Important, typical, distinctive or otherwise important landscape features?

The historical/cultural interest of the landscape?

**Yes** Ensure the developer/Competent Authority are aware of the Landscape Character Assessment, see Technical Appendix 1 of this Handbook and other good practice guides and how they may inform the EIA process. Go to Question 6.

**No** Go to Question 6.

## 6. Could the proposal have a significant effect on

Any other natural heritage resources?

Access to the countryside?

**Yes** Ensure the developer/Competent Authority are aware of the interest, Annexe 5 of this Handbook and good practice guides that may inform the EIA process. Go to Question 7.

**No** Go to Question 7.

## 7. What in your view are the key environmental issues raised by the proposal?

Use the table below to circle and note the important issues.

Receptor (What may be affected)	Issue (What the effect might be)	Will it be covered in ES
People		
Landscape		
Visual Amenity		
Recreation / Access		
Geology, rocks and minerals		
Geomorphology, natural systems and processes		
Soil		
Water		
Hydrology		
River systems		
Habitats		
Plant species		
Animal species		
Designed Landscape		
Cultural Heritage		
Built Environment		
Air quality / Climate		
Other (Specify)		

**8. If there is evidence that any of these issues will not be addressed (or will not be appropriately addressed) in the Environmental Statement:**

**Yes** Write to developer/Competent Authority expressing your views, copy letter to Competent Authority. Go to question 9

**No** Go to question 9.

**9. Do you know which person will be co-ordinating the preparation of the Environmental Statement?**

**Yes** Go to Question 10.

**No** Contact developer and find out. Go to Question 10.

**10. Do you know which persons will be responsible for assessing effects on specific issues of interest to you?**

**Yes** Go to Question 11.

**No** Contact developer and find out. Go to Question 11.

**11. Do you know of and agree with methodologies and timetables proposed for survey and assessment?**

**Yes** Go to Question 12.

**No** Write to developer/Competent Authority expressing your views, copy letter to Competent Authority. Go to Question 12.

**12. Will the environmental statement consider alternative solutions e.g. other sites, designs or processes?**

**Yes** Go to Question 13.

**No** Where relevant write to developer/Competent Authority advocating consideration of alternative solutions. Go to Question 13.

**13. Will the EIA process involve consultation with other appropriate conservation /environmental bodies (e.g. RSPB, SWT)?**

**Yes** Go to Question 14.

**No** Write to developer/Competent Authority advocating consultation with relevant conservation bodies. Go to Question 14.

**14. Is the EA co-ordinator aware of relevant information held by you?**

**Yes** Go to action point below.

**No** In response to scoping exercise, inform proponent of information held by you and the arrangements for obtaining it. Go to action point below.

**Action Point** Go back to beginning and collate all relevant points of concern and action points and communicate with developer and/or Competent Authority.

## Part 2 – Review of the environmental statement

Part 1 above, relating to scoping must be filled in before completing this Section.

The questions below are intended to guide a consultee's or a Competent Authority's review of an Environmental Statement (ES) and the application proposal that it relates to.

Responses need to make clear whether they relate to the adequacy of an Environmental Statement and/or to the suitability of a proposal.

Use the technical guidance in Parts C and D and Appendices 1 to 6 of the Handbook to help you to decide the answers to the questions.

Circle the appropriate answers. Compile an action list and letter to the Competent Authority or annex to send with your consultation response to the Competent Authority.

**Is the purpose and rationale of the project clearly described along with how it would be carried out at each phase of the development?**

Yes     No    Try and clarify with developer/Competent Authority, note deficiencies in ES in response to Competent Authority.

**Is the description of the receiving environment accurate?**

Yes     No    Note in response to ES consultation.

**Does the ES give an accurate account of the policy context against which the proposal and its effects will be considered?**

Yes     No    Note major omissions in response to ES consultation.

**Does the ES properly acknowledge any deficiencies or uncertainties in the information base?**

Yes     No    Note deficiencies in response to ES consultation.

**Does the ES adequately and accurately describe the existing status of natural heritage resources?**

Yes     No    Note errors/omissions in response to ES consultation.

Complete the table below as fully as possible but concentrate on the important effects.

Effects on Natural Heritage	Is it identified in ES?	Proposed Mitigation	Unavoidable, Residual Adverse Effects

Describe any positive enhancement

**Are the predictions of effects clear, comprehensive and reasonable?**

Yes  No Note concerns in response to ES consultation.

**Have indirect, knock-on and cumulative effects been considered?**

Yes  No Advise Competent Authority of possible secondary effects, and the need to take account of cumulative effects.

**Will significant effects be avoided or adequately mitigated wherever possible?**

Yes  No Object to the proposal, unless there are overriding policy reasons in favour of the proposal.

**Are the significant residual adverse impacts of the proposal adequately compensated for?**

Yes  No Object to the proposal.

**Are there any proposals for enhancement that need to be weighed against the residual adverse impacts of the proposal?**

Yes  No Object to the proposal if the adverse effects are upon statutory designations.

**Where necessary, has the ES guaranteed the mitigating measures and proposed an effective regime to monitor and redress adverse effects?**

Yes  No Request that mitigation is guaranteed by conditions and legally binding agreements and that it includes effective monitoring review and remedial or corrective action as may be required.

NB. If the ES is revised and resubmitted, fill in Part 2 again, marking the original sheet as “superseded”. If supplementary information is submitted which changes your views, then amend answers on original sheet indicating that that amendment results from supplementary information.

# Technical Appendices



# Appendix 1: Landscape and Visual Impact Assessment

For information on the assessment of cumulative landscape and visual impacts of wind energy developments please visit SNH's website: [www.snh.org.uk](http://www.snh.org.uk)

## Introduction to This Appendix

1. This Appendix explains in more detail the techniques for assessing the landscape and visual impacts of a proposal, within the overall framework of the EIA process. Essentially, many proposals are likely to change the landscape and the way in which people see the landscape. The techniques described are based on the current best practice guidance for a systematic approach to landscape and visual impact assessment developed by the Landscape Institute and the Institute of Environmental Management and Assessment with support from SNH. It is set out in the publication *Guidelines for Landscape and Visual Impact Assessment*, The Landscape Institute with the Institute of Environmental Management and Assessment, Routledge (3rd edition) 2013 (the GLVIA) available from <http://www.landscapeinstitute.org/publications/index.php> and also *Landscape Character Assessment Guidance for England and Scotland* prepared on behalf of the Countryside Agency and SNH, 2002 available at <http://www.snh.gov.uk/publications-data-and-research/publications/search-the-catalogue/publication-detail/?id=295>.

Other SNH publications relevant to the assessment of landscape and visual impacts include:

- [a] *The Siting and Design of Aquaculture in the Landscape: Visual and Landscape Considerations:* <http://www.snh.org.uk/pubs/detail.asp?id=113>;
- [b] *Guidelines on the Environmental Impacts of Windfarms and small Hydroelectric Schemes:* <http://www.snh.gov.uk/publications-data-and-research/publications/search-the-catalogue/publication-detail/?id=108>;
- [c] *Guidance on Hydroelectric Schemes and the Natural Heritage 2010:* <http://www.snh.gov.uk/docs/C278964.pdf>;
- [d] *Assessing Cumulative Impacts of Onshore Wind Energy Developments (2012);*
- [e] *Minerals and the Natural Heritage in Scotland's Midland Valley:* <http://www.snh.gov.uk/publications-data-and-research/publications/search-the-catalogue/publication-detail/?id=110>; and
- [f] *Visual Representation of Windfarms: Good Practice Guide SNH 2013 reference to new guidance to be added by SNH once published.*

### Key advice

If you require further guidance after reading this Appendix, you should refer to the above guidelines. SNH should be consulted at as early a stage as possible wherever landscape or visual impact issues may be significant.

## Introduction to Landscape Planning and the Environmental Impact Assessment Process

2. The box overleaf illustrates the key steps in landscape planning. It will be seen that these steps integrate with those of the EIA process. For example, looking at alternatives, developing mitigation measures and preparing a detailed assessment to inform the decision-making process.
3. In particular, EIA for landscape and visual impact assessments should include:
  - Screening a project to see if it should be subject to assessment.
  - Scoping of the assessment.
  - Pre-application discussions and consultation.

- Description of development/proposal.
- Baseline studies.
- Identify impacts at each stage of the project, predict magnitude, durations, etc.
- Mitigation.
- Assess magnitude, duration etc. of residual impacts.
- Assess significance of residual impacts.
- Presentation of findings.
- Consultation.
- Analysis and reporting.
- Decision.

Appendix 1 Box 1:

### Key Steps in Landscape Planning

Good EIA Practice

- Understand nature of the landscape
- Identify data, opportunities and constraints
- Modify location, layout, design etc. of all options to achieve best environmental fit
- Prepare strategies to avoid impacts and utilise opportunities
- Compare options, select least harmful
- Develop landscape masterplan
- Prepare landscape and visual impact assessment
- Decision-making process
- Detailed design and specification
- Implementation
  - After care, maintenance
  - Monitoring

4. SNH will mainly be involved in screening, scoping, providing information and pre- application consultation procedures and again at the consultation stage of the application.
5. For consultees, the approach to appraisal of landscape and visual impacts will follow the sequence shown in Figure 1 below.

Appendix 1 Figure 1

### The Approach to Landscape and Visual Impact Assessment

Key information

- Landscape Observation and Description
- Appreciation of Landscape Character and Landscape Change
- Reading about, examining and understanding the proposal – at various life stages
- Considering the assessment of the Landscape and Visual Impacts and their significance
- Considering whether the Environmental Statement is an acceptable basis to inform the decision
- Considering whether more or different mitigation is possible and seeking further information or discussing/negotiating changes
- Drafting a written consultation response

6. The simplest definition of “Landscape” is “the appearance of the land”. Landscape is everywhere and may comprise rural landscape, urban landscape (or townscape), urban fringe landscape, coastal landscape, seascape, etc.

7. However, human perceptions of place also include things that cannot be seen but which add to the appreciation of places; these are:
  - feelings generated by other senses – touch, hearing, smell, taste;
  - feelings generated by a knowledge of the place (its cultural and historical associations with people, events, etc.);
  - feelings generated by past experience of the place, or similar places – life experience.
8. These combine to give an experience of landscape perceived by all the senses – sight, sound, smell, touch, taste – and by knowledge.
9. What is experienced is influenced by:
  - natural and semi-natural features and processes;
  - the use and management of the land by people now;
  - the result of the historical use and management of the land;
  - the cultural associations; and
  - human activity.
10. SNH takes a comprehensive view of landscape, taking account of more than just the visible components. We recognise that historical and cultural associations and the total experience of landscape through all the senses and through knowledge are integral to understanding landscape character.
11. SNH believes that all landscapes, everywhere, are important as:
  - an essential part of our natural heritage resource base;
  - a reservoir of archaeological and historical evidence;
  - an environment for plants and animals, the condition of which directly affects biodiversity conservation;
  - a resource that evokes sensual, cultural and spiritual responses essential to human well-being;
  - a recreational resource providing enjoyable health benefits;
  - an important part of our quality of life, not least as the habitat/environment in which we live.
12. SNH recognises that the landscape of Scotland is the direct product of the interaction of innumerable and often extremely complex natural and human influences over thousands of years. The landscape is dynamic and continues to change as a result of climate change, natural systems and processes and human influences – land use and management continue to change the components of landscape. The range and scale and speed of change have all increased with technological progress. Armed with modern technology we are able to pay less regard to natural influences – geology, topography, climate, coastal processes than we had to in the past. Development in an inappropriate location or which is poorly sited or badly designed can erode landscape character and local distinctiveness by departing from more sensitive ways of building and utilising the land, which respect natural constraints and use natural, locally available materials.
13. Change, however is inherent in all landscapes. SNH's approach is to manage change not protect the status quo. SNH believes that a better understanding of landscape, its evolution, management, conservation, restoration and enhancement are essential to achieve environmental sustainability, having regard to the European Landscape Convention, see [http://www.coe.int/t/dg4/cultureheritage/heritage/Landscape/default\\_en.asp](http://www.coe.int/t/dg4/cultureheritage/heritage/Landscape/default_en.asp)

To reach an improved understanding we need to better appreciate the composition and distribution of landscape types in Scotland, their evolution, the pressures for change that they experience and the likely effects of change and how change may be managed and controlled. The EIA process is an important contribution to improving and informing decisions that may affect landscape and visual amenity. The national programme of Landscape Character Assessments is also an

important contribution and SNH's responses to EIA will be built upon the foundations provided by the local Landscape Character Assessments.

14. EIA is about the appraisal of components of the landscape, appreciating the character or distinctiveness including attributes such as tranquillity, remoteness and wildness of landscape and how changes may affect all of these things. It is not about how individuals may respond to the landscape, or changes to it. People's responses to the landscape will vary as a result of their own personal aesthetic taste, tolerance of sound, preferences for smells and tastes, life experiences, philosophies, interests, education and knowledge. EIA should not try to consider people's responses to landscapes. One person's landscape of wild beauty and tranquillity is bleak and remote to another.

### Landscape and Visual Impacts

15. Landscape and visual impacts are related but different concepts.

**Landscape Impacts** are on the fabric, character and quality of the landscape. They are concerned with:

- Landscape components.
- Landscape character – regional and local distinctiveness, tranquillity, wildness, etc.
- Special interests e.g. designations, conservation sites, cultural associations.

**Visual Impacts** are the effects on people of the changes in available views through intrusion or obstruction and whether important opportunities to enjoy views may be improved or reduced.

16. Landscape and visual impacts do not necessarily coincide. Landscape impacts can occur in the absence of visual impacts, for instance where a development is wholly screened from available views, but nonetheless results in a loss of landscape elements, and landscape character within the site boundary. Similarly, some developments, such as a new communications mast in an industrial area, may have significant visual impacts, but insignificant landscape impacts. However, such cases are very much the exception, and for most projects both landscape and visual impacts will need to be assessed.

### Landscape Observation and Description: Components of the Landscape

17. The components of landscape and the influences on those components are fundamental to our appreciation of landscape character and its distinctiveness. Some of these components are objective some are subjective. Landscape observation, description and appreciation always involves objective and subjective matters but the subjective elements can be analysed with confidence by confining description to the components of the landscape and not responses to these components.
18. The Components of the Landscape are its features and characteristics. The landscape includes:
- visible, physical, objective, tangible components, e.g. landform, buildings.
  - visible, spatial (rather than physical), more subjective, intangible components, e.g. scale, pattern, colour, texture, etc.
  - non-visible components that cannot be seen, e.g. tranquillity, remoteness, wildness, sound and cultural associations.
19. In order to structure the approach to observation and description, it is useful to have a Fieldsheet that acts as an aide-memoir. No standard Fieldsheet could be devised that would be appropriate to all the landscape types in Scotland. Example Fieldsheets 1, 2 and 3 at the end of this Appendix, entitled Landscape Observation and Description are designed to indicate the wide range of features and characteristics that may be found in Scotland, they are certainly not exhaustive, and should be modified in each case.

## Physical Features and Characteristics

20. The physical features and characteristics can be grouped under 4 broad headings or categories (See Example Fieldsheets 1 and 2).

### Appendix 1 Box 2:

#### The Physical Components of Landscape

#### Key information

- Landform (See Example Fieldsheet 1)
- Land Cover and Land Use (See Example Fieldsheets 1 and 2)
- Linear Features (See Example Fieldsheet 2)
- Single Point Features (See Example Fieldsheet 2).

21. These broad categories can be subdivided (See Example Fieldsheets 1 and 2). For example:

Land Use and Land Cover divided into:

- water;
- forestry, woodland and trees;
- agriculture, fields and boundaries;
- settlements;
- other land uses.

22. All of these components are: real, physical, measurable, tangible–touchable as well as visible.
23. They can, therefore, be described with objectivity: a matter of fact, not opinion. We are not describing our responses to them, e.g. whether we like them or not, just whether they are there or not. Together they create compositions in infinitely variable ways.
24. Some components will be more significant than others. The significant ones may contribute to the character of the landscape or may form conspicuous features within the landscape that are not typical. In completing the Fieldsheet you might develop a system, e.g. of boxes or highlighting to indicate the most significant, i.e. visually prominent or frequent features.
25. We are not making judgements about good or bad compositions or intrusive features. It is a matter of fact how these components combine and whether particular components occur uniquely or frequently.

## Components of Landscape Experience

26. Sometimes referred to as “Experiential Characteristics” and set out on Example [Fieldsheet 3](#) at the end of this Appendix. These are not physical components but may include:
- visible, spatial characteristics that cannot be touched but can be seen (e.g. colour or pattern);
  - characteristics that relate to our other senses, such as hearing, smell, taste (e.g. sounds odours and scents);
  - characteristics that are introduced by knowledge of the area (e.g. associations with people events or cultural heritage or artistic or literary works).

They are all included in the list of components in Box 3 and on Example [Fieldsheet 3](#)).

**The Components of Landscape Experience**

**Visible:** Balance, colour, diversity, form, line, management, movement, openness, scale, texture

**Other Senses:** Sound, taste, smell

**Knowledge:** Historical associations, cultural associations (but factual things, not emotional things)

27. In turn, each of the visible components can be described in relative terms. They do not lend themselves to accurate measurement, like the physical characteristics, but they can be described within a range of common adjectives associated with the subject. For example: openness may be described as: tightly enclosed, confined, open or exposed. (See Example [Fieldsheet 3](#)). These adjectives give us a fairly descriptive picture. See other descriptions on Example [Fieldsheet 3](#) at the end of this Appendix.
28. These descriptions are subjective but, nevertheless, meaningful. The likelihood is that most people would describe a component in a particular landscape in the context of its location in Scotland, by using the same adjective. Context of location is important. What is open and large scale in the Western Highlands will be different to open, large scale landscapes in the Midland Valley of Scotland.
29. These descriptions can be collated into paragraphs of text and are capable of portraying a written picture, or 'pen portrait' of the landscape character.
30. These descriptions do not relate to our responses to the landscape but our experience of it. If descriptive methods are approached in the right way, understanding, expression and appreciation of the landscape is valid. There is nothing wrong with subjectivity if it is founded on an informed understanding and structured approach.
31. It is also important to realise that because these components are capable of meaningful description they can also change if the landscape changes. Furthermore, most are capable of being changed by human activity, such as changes in land use or management or development.
32. For example, removing field boundaries will change the scale and openness. Mineral operations may change texture, colour, scale, balance, form, line, movement and sound.
33. These must, therefore, be important components in landscape character and need to be considered in landscape assessment.

### **Appreciation of Landscape Character and Landscape Change**

34. The components of the landscape combine to create special combinations that everyone sees and feels, no matter what their response to it may be. The combinations of components are more than the sum of their component parts. Landscape character is the combination of all the components, and the way they come together and interact.

### **Landscape Distinctiveness**

35. The combinations of landscape characteristics vary considerably, indeed, infinitely from place to place and usually provide such a unique combination of components that it is distinctive – not quite like anywhere else. This gives a sense of place and identity unique to each area (except for example a monotonous housing estate or forest plantation that is anonymous – it could be anywhere).

## Landscape Character

36. Most areas have landscape characteristics that come together in particular combinations to create broad landscape 'types', which may be unique or may occur in more than one locality. These broad combinations are identified as "Landscape Types". Their local variations are identified as "Landscape Character Areas" or sub areas. A sense of place for local people comes from their recognition and familiarity with their local area which provides, for them, a strong sense of place and identity even if it is not familiar to other people.

## Landscape Change

37. Landscapes are dynamic. They change through natural processes – e.g. maturity of woodlands, and natural systems – e.g. coastal accretion, river erosion. Most changes, however, are the result of human activity, land use, management or neglect.
38. Change is inevitable and can alter the landscape character making it more or less typical of its landscape type or even changing it to another landscape type altogether. Change in itself is not, therefore, necessarily negative. It can restore or enhance landscape character. Alternatively, it can damage, degrade or destroy landscape character. SNH seeks to manage change, usually in a way that sustains or improves landscape character.
39. Appreciation of landscape character – what is significant, what is important – is fundamental to landscape planning and management. When considering proposals for change we need to focus on those aspects that form the key components of the landscape and assess the changes to them that would occur:
  - (a) anyway, as a result of trends and natural changes; and
  - (b) as a result of the proposal that is subject to the EIA.

## Examining and understanding the proposal – at various life stages.

40. Landscape and visual impacts can arise from a variety of sources. They can be caused by changes in land use, for example mineral extraction, afforestation and land drainage; by the development of buildings and structures such as power stations, industrial estates, roads and housing developments; by changes in land management, such as intensification of agricultural use, which can be a vehicle for biological and landscape change; and, less commonly, by changes in production processes and emissions, for instance from quarries, chemical, food and textile industry plants.
41. In order to predict the changes that would result from a project it is necessary to fully understand the project itself. There will be relatively obvious points to familiarise yourself with, such as the location and size or scale of the development and the nature of the project – what it would look like and sound like. There will also be less obvious points to consider, such as the different stages that a project may go through. Reference should be made to the project life cycle at [Figure 3](#) of the Handbook.
42. Means of access or of importing or exporting materials, or energy transmission, water supply etc. could all have landscape and visual impacts including indirect and off site impacts. The excavation of local borrow pits for construction materials, temporary or permanent disposal or storage of waste, top soil, sub soil, other overburdens and surface water or settlement lagoons could create new features in the landscape.
43. The project may necessarily need ancillary or related forms of development which have not been clearly identified and described in the proposal such as: construction yards or compounds; ancillary buildings or structures; jetties; lighting; security fencing; gantries, poles, masts, cranes or towers; signs and even sirens or other audible warning devices.

44. The design of the project may include mitigation measures. It is necessary to consider their form, scale, duration and location and how they would be constructed or implemented. How effective would they be and would they have landscape or visual impacts themselves?

### **Predicting the Landscape and Visual Impacts**

See [Section C.7](#) of the Handbook and Example [Fieldsheets 4](#) and [5](#)).

45. Impact occurs when landscape or visual resources are affected. Where we have a proposal for assessment there will be: “receptors” things that will be affected, e.g.,
- landscape – that is there now;
  - people that are there now; and
  - “impacts” – the changes that the landscape and the people would experience.
46. Receptors of landscape and visual impact may include physical and natural landscape and biological resources, special interests and groups of viewers. Receptors can be, e.g.,
- Specific landscape components e.g. shoreline, hill or river
  - Areas of distinctive character
  - Valued landscapes such as local beauty spots or specific viewpoints
  - Historic, designed landscapes
  - People – residents, workers, travellers
47. Reference should be made to the full range of types of impacts shown in Box C.7.2 of the Handbook. (See also Example [Fieldsheets 4](#) and [5](#)).

### **Assessing the Significance of Landscape and Visual Impacts**

See [Section C.8](#) of the Handbook and Example [Fieldsheets 4](#) and [5](#) below.

48. [Section C.8](#) of the Handbook considers the assessment of the significance of impacts. Essentially this depends, amongst other things on:
- the type of impact;
  - the magnitude or scale of the impact;
  - duration whether it is a permanent or temporary impact;
  - the importance of the receptor as a landscape component (or the number of people affected, what they are doing and the context of the view).
49. Significance thresholds can, therefore, be determined from different combinations of sensitivity and magnitude. In order to develop significance thresholds it is necessary first to classify the sensitivity of receptors and the magnitude of change according to reference points along a continuum, as shown in the examples in [Figure 2](#) below. These can be used in [Fieldsheets](#), as in Example [Fieldsheets 4](#) and [Fieldsheet 5](#) at the end of this Appendix. You should clearly distinguish between landscape and visual receptors and a useful way of ensuring that you do this is to use separate [fieldsheets](#) for landscape receptors and impacts (Example [Fieldsheet 4](#)) and visual receptors and impacts (Example [Fieldsheet 5](#)).
50. Reference should be made to [Section C.8](#) of the Handbook, which explains the approach to expressing the significance of impacts in respect of landscape and visual impacts and other impacts which cannot be expressed in numerical or other objective ways.

It is expressed, for example, in a scale of ‘major, moderate and low’ but it must be stressed that this is only an example



51. Every project will require its own set of criteria and thresholds, tailored to suit local conditions and circumstances, and it should be remembered that impacts can be positive as well as negative. The benefit of such a system, though, is to help separate fact from interpretation, and hence to simplify discussion and agreement on the significance of impacts. The Example Fieldsheets at the end of this Appendix use a four point “major/moderate/low/negligible” scale, again to illustrate different approaches that may be applicable in different circumstances.
52. Numerical scoring or weighting should be avoided. Attempting to attach precise numerical values to qualitative resources is rarely successful, and should not be used as a substitute for reasoned professional judgement.
53. Similarly for visual impact assessment, it may help to use a fieldsheet or checklist (again modified to the case) to structure the approach to assessment. When in the field, it is necessary to envisage the landscape with the development in place – add and subtract relevant features and consider what effect that would have. Visualisations, used with care and accuracy, can help to envisage the effects of the project in the landscape or view.
54. Landscape impacts in the checklist may usefully be grouped under “receptors” with a similar list to those used to describe the landscape components. Thus, you will be using a basis for assessing landscape and visual impact significance directly drawn from your landscape description and related to the key characteristics and features that you identified in your observations (assisted by the Landscape Character Assessment for the relevant area). This provides a rational and well-reasoned justification for assessment.
55. For each impact a level of significance can be assigned, such as major, moderate or low or negligible adverse or beneficial effect.
56. Similarly a fieldsheet/checklist can be used for assessing the Visual Impacts.
57. The assessment relates to residual impacts – taking mitigation into account but remember that some mitigation will take time (screen planting) and some mitigation measures can have impacts themselves, e.g. screen mounds can obstruct views and look out of scale and place because of their size and shape.

### Considering the Environmental Statement

See Sections [D.9](#) and [D.10](#) of the Handbook

58. A key test is whether the Environmental Statement clearly distinguishes between landscape and visual impacts.  
  
Does the Environmental Statement fully and fairly describe all relevant and significant landscape and visual impacts and does it assign appropriate levels of significance to these impacts?
59. It is not feasible to produce a comprehensive checklist of all the points that should be considered when appraising the adequacy and effectiveness of Environmental Statements, owing to the considerable scope of content, project types and methods of presentation. However, some of the points in Box 4 below will usually be worth considering.

## Appendix 1 Box 4

**Useful Tests to Apply to Environmental Statements in respect of Landscape and Visual Impact Assessments**

- Does the Environmental Statement contain fair/accurate/appropriate illustrations?
- Is there a Map showing relevant Zones of Theoretical Visibility (ZTV) and is it clear what they relate to and how they were compiled?
- Are there before and after illustrations such as artist's impressions, sketches, photomontage or computer aided montages or overlays?
- Are viewpoints fair and typical and comprehensive of relevant views?
- Are maps diagrams and illustrations clear and is the text clear and unambiguous?
- Are options or alternatives adequately considered?
- Are mitigation measures adequately described and are their effects assessed?
- Are residual effects clearly identified and if so could they be further reduced at reasonable cost?

## EXAMPLE FIELDSHEET 1 - DESCRIPTION

<b>Location</b>				
<b>Viewpoint</b>				
<b>Date</b>				
<b>Visible, physical components of landform, its features and characteristics</b>				
High Plateau	Peak	Knoll ridge	Spur/crags	Outcrops
Corrie/gully	Low plateau	Distinct hills	Rolling hills/slopes	Glen valley
Gorge	Bench/terrace	Flats	Wide basin	Confined basin
Den	Hollows	Plain	Mounds/moraines	Cliff
Coastal brae	Bay	Headland	Beach	Intertidal
Notes				
<b>Land cover and land use - water</b>				
Sea	Sea loch	Intertidal	Mud/sand	Delta
Estuary	Loch	Lochans	Pools	River
Whitewater	Burn	Drain/ditch	Canal	Waterfall
Reservoir				
Notes				
<b>Land cover and land use – forestry, woodland and trees</b>				
Coniferous plantation	Mixed plantation	Broadleaved plantation	Semi-natural woodland	
Tree clumps/copses	Shelterbelts/tree lines	Roadside tree belts	Policy/parkland trees	
Hedgerow trees	Notable single trees			
Notes				
<b>Land cover and land use - agriculture</b>				
Arable	Horticulture	Intensive livestock	Ley grassland	
Permanent pasture	Unimproved grassland	Rough hill grazing	Moorland	
Animals:	Cattle	Sheep	Pigs	
	Poultry	Horses	Deer	
Notes				
<b>Land cover and land use - fields and boundaries</b>				
Stone dykes	Dykes with fencing	Remnant dykes	Continuous hedgerows	
Hedgerows with gaps	Remnant hedgerows	Lost hedgerows	Post and wire fencing	
Post and rail fencing	High stone walls	Stone pillars	Wooden/metal gates	
Beech hedges	Hawthorn hedges			
<b>Field size</b>	Very large	Large	Medium	Small
Notes				

## EXAMPLE FIELDSHEET 2 - DESCRIPTION

<b>Location</b>				
<b>Viewpoint</b>				
<b>Date</b>				
<b>Land cover and land use - other uses</b>				
Country park	Urban park	Nature reserve	Car parks	Sports fields
Golf course	Angling	Camping site	Caravan site	Marine/boats
Dock/harbour	Military	Open cast coal	Sand and gravel	Hard rock Industrial
Industrial	Warehousing	Airfield	Retail	Utilities
Notes				
<b>Land cover and land use - Settlements</b>				
Nucleated	Scattered	Linear	Unplanned	Model/planned
Traditional	Modern	Mixed	Frequent	Infrequent
Absent	Town	Village/township	Hamlet	Sprawling
Steadings:	Regular	Irregular	Absent	Frequent
	Infrequent	Small	Medium	Large
	Traditional	Modified	Extended	Converted
Notes				
<b>Dominant Building Materials</b>				
Stone colour	Brick colour	Render/colourwash		
Tile roof colour	Slate roof colour	Stone roof colour		
Notes				
<b>Linear Features</b>				
Motorway	Main road	B roads	Minor Roads	Tracks
Bridleways/paths	Drove roads	Hill tracks	Derelict/operational railway	
Embankments	Cuttings	Power lines	High Voltage	Low voltage
Rivers/watercourses	Overhead telephone	Pipelines	Coast/shoreline	
Notes				
<b>Single point features</b>				
Church	Castle	Ruin	Folly / Obelisk	Wind turbine
Cairn	Bridge	Large house	Steadings	Signs
Mast/transmitter	Industrial site	Tips/bings	Quarry/mine	Quarry buildings
Notes				

### EXAMPLE FIELDSHEET 3 - DESCRIPTION

<b>Location</b>				
<b>Viewpoint</b>				
<b>Date</b>				
<b>Components of landscape experience – visible/spatial characteristics</b>				
SCALE	Intimate	Small	Large	Vast
OPENNESS	Tightly enclosed	Confined	Open	Exposed
COLOUR	Monochrome	Muted	Colourful	Garish
TEXTURE	Smooth	Varied texture	Rough	Craggy
DIVERSITY	Uniform	Simple	Diverse	Complex
FORM	Vertical	Sloping	Rolling	Flat/horizontal
LINE	Straight	Angular	Curved	Sinuous
BALANCE	Harmonious	Balanced	Discordant	Chaotic
MOVEMENT	Dead	Calm	Active	Busy
PATTERN	Random Indistinct	Organised Irregular	Planned Regular	Formal Geometric
MANAGEMENT	(Semi) Natural	Derelict/disturbed	Tended	Manicured
<b>Components of landscape experience – other senses</b>				
SOUND	Silent	Quiet	Disturbed	Noisy
SMELL	Fresh	Agricultural	Coastal	Industrial
OTHER				
Notes				

## EXAMPLE FIELDSHEET 4 - ASSESSMENT

<b>Location</b>			
<b>Viewpoint</b>			
<b>Date</b>			
<b>Proposal</b>			
<b>Landscape receptors What will be affected?</b>	<b>Sensitivity How important is it</b>	<b>Impact What will the effect be?</b>	<b>Significance of impact</b>
Landform	High/Medium/Low		
Water	High/Medium/Low		
Woodland and trees	High/Medium/Low		
Agriculture	High/Medium/Low		
Fields and boundaries	High/Medium/Low		
Other land uses	High/Medium/Low		
Settlement pattern	High/Medium/Low		
Linear features	High/Medium/Low		
Point features	High/Medium/Low		
<b>Aspects of landscape experience</b>			
Colour	High/Medium/Low		Major/Moderate/Low/ Negligible
Texture	High/Medium/Low		Major/Moderate/Low/ Negligible
Pattern etc.	High/Medium/Low		Major/Moderate/Low/ Negligible

## EXAMPLE FIELDSHEET 5 - ASSESSMENT

<b>Location</b>			
<b>Viewpoint</b>			
<b>Date</b>			
<b>Proposal</b>			
<b>Visual receptors</b>	<b>Sensitivity of viewpoint</b>	<b>Impact: e.g. visual intrusion / obstruction</b>	<b>Significance of impacts</b>
Trunk roads and motorways	High/Medium/Low		Major/Moderate/Low/ Negligible
A and B roads	High/Medium/Low		Major/Moderate/Low/ Negligible
Minor roads	High/Medium/Low		Major/Moderate/Low/ Negligible
Rights of way	High/Medium/Low		Major/Moderate/Low/ Negligible
Important viewpoints	High/Medium/Low		Major/Moderate/Low/ Negligible
Railways	High/Medium/Low		Major/Moderate/Low/ Negligible
Open space and recreation areas	High/Medium/Low		Major/Moderate/Low/ Negligible
Public buildings	High/Medium/Low		Major/Moderate/Low/ Negligible
Residential properties	High/Medium/Low		Major/Moderate/Low/ Negligible
Workplaces	High/Medium/Low		Major/Moderate/Low/ Negligible

# Appendix 2: Ecological Impact Assessment

## Introduction

1. This Appendix relates to the assessment of the ecological impacts of a project in the EIA process. For the UK there is now an authoritative and universally accepted best practice approach published by the Chartered Institute of Ecology and Environmental Management (CIEEM). They are the Guidelines for Ecological Impact Assessment in the United Kingdom dated August 2010 at <http://www.cieem.net/ecia-guidelines-terrestrial-freshwater-and-coastal>- and the Guidelines for Ecological Impact Assessment in Britain and Ireland: Marine and Coastal dated August 2010 at <http://www.cieem.net/ecia-guidelines-marine>-. CIEEM refers to this guidance as the 'EclA'. SNH supports and promotes the use of the Guidelines as a good quality standard and to help provide consistency in the EIA process.
2. The guidelines update and build upon previous good practice guidance published in 1995 as Guidelines for Baseline Ecological Assessment written by the Institute of Environmental Management and Assessment and published by Spons.
3. CIEEM emphasises that the purpose of EclA is to provide decision-makers with clear and concise information about the likely significant ecological effects associated with a project. Good outcomes for biodiversity depend on input from ecologists at all stages in the decision making and planning process, from the early design of a project through to its implementation.
4. The Guidelines set new standards for the assessment of the ecological impact of projects and plans, so as to improve the consideration of the needs of biodiversity and thereby reduce the impacts of any development. They can also be used, for example, to provide environmental information to accompany an application for consent, to guide a development brief or to inform a management plan.
5. The Guidelines aim to:
  - Promote a scientifically rigorous and transparent approach to Ecological Impact Assessment (EclA).
  - Provide a common framework to EclA in order to promote better communication and closer cooperation between ecologists involved in EclA.
  - Provide decision-makers with relevant information about the ecological impacts associated with a project, positive and negative.
6. With the purpose of:
  - Ensuring structured ecological input at all stages of project design and implementation.
  - Obtaining best possible outcomes for biodiversity resulting from changes in land use and developments.
  - Improving the effectiveness of current EclA practice on five key fronts through:
    - identifying and evaluating ecological features;
    - characterising and quantifying impacts and assessing their significance;
    - minimising negative impacts and maximising positive outcomes through the project design process;
    - identifying legal and policy implications and their consequences for decision making; and
    - identifying the role of stakeholders in achieving maximum benefits for biodiversity.
7. It is essential that consideration of effects on biodiversity, flora and fauna in EIA are not limited to European protected species or the interest features of designated areas, such as Natura 2000 sites or Sites of Special Scientific Interest. All competent authorities have a duty under section 1 of the Nature Conservation (Scotland) Act 2004, to have regard to the conservation of biodiversity, especially those habitats and species of recognised importance in national and local Biodiversity Action Plans, which frequently occur widely throughout Scotland and outwith designated areas,



see for example: <http://www.legislation.gov.uk/asp/2004/6/contents> Furthermore, those involved in the assessment of ecological impacts must be aware of the requirements for obtaining a licence in respect of work with a wide range of protected species, including European Protected Species, see further: <http://www.snh.gov.uk/protecting-scotlands-nature/protected-species/legal-framework/habitats-directive/euro/>

8. The terrestrial, freshwater and coastal EclA guidelines are currently under review but CIEEM have stated that the version referred to above remains current until such time as a new set of guidelines are published.
9. The EclA guidelines are intended for everyone involved in the EIA process. They are structured around the main stages in the EIA process mapped out in this Handbook. However, CIEEM again emphasise that although described in this staged way, it is important to recognise that EclA is, like the whole EIA process, an iterative process, with early stages (notably project design and scoping) often revisited as the assessment proceeds.
10. In order to promote the methodologies set out by CIEEM and to avoid unnecessary duplication, this Appendix refers to the guidelines and provides links to each of the main EIA stages.
11. Chapter 2 of both the terrestrial and marine CIEEM guidelines refer to both the screening and scoping procedures at:  
[http://www.cieem.net/data/files/Resource\\_Library/Technical\\_Guidance\\_Series/EclA\\_Guidelines/TGSEclA-EclA\\_Guidelines-Terrestrial\\_Freshwater\\_Coastal.pdf](http://www.cieem.net/data/files/Resource_Library/Technical_Guidance_Series/EclA_Guidelines/TGSEclA-EclA_Guidelines-Terrestrial_Freshwater_Coastal.pdf) and <http://www.cieem.net/screening-and-scoping> respectively.
12. The scoping stage explains that it may not be appropriate or necessary to study all possible ecological impacts to the same level of detail. Effort must be focused on those features or resources that are sufficiently important to merit more detailed consideration. A clear rationale should be given for deciding which features and resources should be subject to more detailed consideration (a key purpose of scoping), to enable all those involved in the assessment to understand the reasoning behind the scope of investigations. Policy considerations will influence the criteria that will be appropriate for determining the threshold in any particular case; cumulative impacts should also be considered.
13. Chapter 3 of the terrestrial guidelines and Chapter 4 of the marine guidelines deal with the concept of ecological 'valuation', which is the assignment of values to ecological features and resources, including those that have been designated for their nature conservation interest. These discussions are found at:  
[http://www.cieem.net/data/files/Resource\\_Library/Technical\\_Guidance\\_Series/EclA\\_Guidelines/TGSEclA-EclA\\_Guidelines-Terrestrial\\_Freshwater\\_Coastal.pdf](http://www.cieem.net/data/files/Resource_Library/Technical_Guidance_Series/EclA_Guidelines/TGSEclA-EclA_Guidelines-Terrestrial_Freshwater_Coastal.pdf) and <http://www.cieem.net/determining-value>.
14. Like this Handbook, the CIEEM guidelines adopt the concept of 'significance' in the EclA process. This subject is discussed in Chapter 4 of the terrestrial guidelines and Chapter 5 of the marine guidelines at:  
[http://www.cieem.net/data/files/Resource\\_Library/Technical\\_Guidance\\_Series/EclA\\_Guidelines/TGSEclA-EclA\\_Guidelines-Terrestrial\\_Freshwater\\_Coastal.pdf](http://www.cieem.net/data/files/Resource_Library/Technical_Guidance_Series/EclA_Guidelines/TGSEclA-EclA_Guidelines-Terrestrial_Freshwater_Coastal.pdf) and <http://www.cieem.net/impact-assessment>. EIA must include a description of the ecologically significant impacts of a project and of how likely they are to occur. This, together with the value of the affected resource or feature, should then be given due consideration; firstly when identifying ways of avoiding harm to ecological interests, then when considering the need for mitigation and then in determining whether to give consent to a particular project and what conditions or legal obligations should be attached to this consent in order to safeguard ecological interests.
15. There are differences in the various criteria currently used for determining whether ecological impacts are significant and decisions are often subjective. The CIEEM guidance suggests a systematic and consistent approach to determining whether an ecological impact is significant. This approach should help to reduce the need for subjective judgement. In the CIEEM guidelines a significant impact, in ecological terms (whether negative or positive), is defined as an impact on the integrity of a defined site or ecosystem and/or the conservation status of habitats or species within a given geographical area.

16. Chapter 5 of the terrestrial guidelines and Chapter 6 of the marine guidelines provide advice on avoiding adverse impacts, 'mitigation', 'compensation' and 'enhancement'. It is important to ensure that any significant residual impacts are clearly identified after taking mitigation into account; in such cases compensation may be necessary. These issues are described at: [http://www.cieem.net/data/files/Resource\\_Library/Technical\\_Guidance\\_Series/EcIA\\_Guidelines/TGSEcIA-EcIA\\_Guidelines-Terrestrial\\_Freshwater\\_Coastal.pdf](http://www.cieem.net/data/files/Resource_Library/Technical_Guidance_Series/EcIA_Guidelines/TGSEcIA-EcIA_Guidelines-Terrestrial_Freshwater_Coastal.pdf) and <http://www.cieem.net/mitigation-compensation-and-enhancement>.
17. Chapter 6 of the terrestrial guidelines and Chapter 7 of the marine guidelines set out the consequences of a significant impact, in terms of the legal and policy framework within which a decision should be taken by a competent authority. These are found at: [http://www.cieem.net/data/files/Resource\\_Library/Technical\\_Guidance\\_Series/EcIA\\_Guidelines/TGSEcIA-EcIA\\_Guidelines-Terrestrial\\_Freshwater\\_Coastal.pdf](http://www.cieem.net/data/files/Resource_Library/Technical_Guidance_Series/EcIA_Guidelines/TGSEcIA-EcIA_Guidelines-Terrestrial_Freshwater_Coastal.pdf) and <http://www.cieem.net/consequences-for-decision-making>.
18. The CIEEM guidelines summarise the EcIA process, within the context of the overall procedures of EIA, as follows.

### Initial project design

19. At the outset of the project the proposer's ecologist should:
  - a) Obtain and provide information on the project, any alternatives that have been studied and existing ecological information;
  - b) review the relative ecological implications of options and how the preferred solution compares with alternatives;
  - c) discuss key ecological constraints and considerations about the project design (and alternatives) with the proposer and the design team (e.g. engineers, architects); and
  - d) avoid ecological impacts where possible, reduce impacts by effective mitigation, compensate for residual impacts and seek opportunities for ecological enhancements as early as possible, as well as opportunities to modify the design to avoid or reduce negative effects.

### Screening (see Sections B.3, B.4 and C.1 of the Handbook)

20. The proposer may seek a formal screening opinion from the competent authority concerning the need for EIA under the EIA Regulations. Ecologists working for or advising the competent authority will need to determine whether significant ecological impacts are likely. The decision will be based on the criteria set out in the relevant EIA Regulations for establishing whether or not EIA is required and should take into account the guidance provided in the CIEEM guidelines.

### Scoping (see Section C.4 of the Handbook)

21. CIEEM guidelines emphasise the need to adopt standard survey methods wherever appropriate, so that results can be compared with those arising from other investigations. Details of how methods have been tailored to meet the needs of the study should be included. If the method used varies from accepted good practice this should be noted and the effect on the reliability of the results discussed. Standard survey methods are described in Institute of Ecology and Environmental Management (2005) Guidelines for Survey Methodology (Unpublished). See also <http://www.cieem.net/general-survey-advice>.
22. It is recommended that all ecologists should ensure that scoping:
  - a) involves contact with all ecological advisers including the proposer's, competent authority's and consultees' ecologists);

- b) involves appropriate consultation with regulatory bodies regarding the proposed scope of the assessment;
- c) identifies non-statutory consultees;
- d) identifies any potential licensing requirements for survey and/or development regarding legally protected species;
- e) identifies all proposed activities that may generate significant ecological impacts;
- f) identifies potentially important ecological features or resources that could suffer significant impacts and therefore require detailed assessment;
- g) proposes suitable spatial and temporal scopes for the assessment and identifies the main ecological issues to be addressed;
- h) undertakes preliminary assessment of potential ecological impacts on identified features or resources, incorporating existing data/information;
- i) reconsiders spatial and temporal scope and amends the extent of preliminary investigations if necessary;
- j) recommends suitable survey/research methodologies that have been agreed with consultees;
- k) results in a scoping report/summary which can be circulated for comment and modified accordingly; and
- l) confirms potential opportunities for ecological enhancement or avoidance of impacts.

### Pre-application consultations

23. Under the provisions of the Town and Country Planning (Scotland) Act 1997:

<http://www.legislation.gov.uk/ukpga/1997/8/contents> and the Town and Country Planning (Development Management Procedure) (Scotland) Regulations 2013,

<http://www.legislation.gov.uk/ssi/2013/155/contents/made> pre- application consultations are compulsory for national developments and major developments other than applications for the development of land without complying with conditions subject to which a previous planning permission was granted. These consultations provide an early and effective opportunity to ensure that all avoidance, mitigation, compensation and enhancement measures are fully explored and integrated into the project.

### Impact assessment (see Sections C.6 to C.8 of the Handbook)

24. Ideally, the EclA team (i.e. including the proposer's, competent authority's and other relevant ecologists) will be involved in the following assessment process, which should cover construction, operation and any decommissioning stages of any project (see [Figure 3](#) in the Handbook):
- a) determine the value of ecological features and resources affected, through survey and/or research;
  - b) assess impacts affecting those important features and resources, which meet or exceed a defined threshold value, with reference to ecological processes and functions as appropriate;
  - c) quantify the extent, magnitude, duration, timing and frequency of the impacts;
  - d) assess impact reversibility;
  - e) explain the level of confidence in these predictions; and
  - f) identify likely significant impacts in the absence of any mitigation, and taking any mitigation into account that is built into the project at this stage.

25. The surveys and research that are undertaken may indicate that the scope of the assessment should be adjusted and further studies should be undertaken as required. Impact assessment should also review the relative ecological implications of options and how the preferred solution compares with alternatives.

### **Evolution of project design and mitigation**

(see Sections C.9 to C.10 of the Handbook)

26. This stage should:
- a) Identify measures to avoid, reduce or compensate for negative impacts;
  - b) identify opportunities for enhancement;
  - c) demonstrate likely success of mitigation measures; and
  - d) provide sufficient information for mitigation measures to be implemented effectively, i.e. through an Environmental Action Plan (EAP).

Identify significant residual impacts (see Sections C.8 to C.10 of the Handbook)

27. This stage should produce a clear summary of the significant residual impacts of the project incorporating mitigation and enhancement measures. Where significant impacts cannot be avoided or reduced, the stage should identify compensation measures to be implemented. It should also consider the consequences of significant residual impacts in the light of planning policies and legislation; and include mitigation, compensatory actions and enhancements in the EAP or similar delivery mechanism.

### **Reporting** (see sections C.10 and D.1 of the Handbook)

28. The Environmental Statement should set out clearly all the ecological information necessary for a decision to be made. Key aspects include:
- a) A description of ecological baseline and trends if the project were not to go ahead;
  - b) An explanation of the criteria used to evaluate ecological resources and assess the significance of impacts of the project;
  - c) a statement of ecological methods used, including the timing and duration of surveys;
  - d) a presentation of any analytical techniques used and the analysis itself;
  - e) identification of likely ecological impacts and an explanation of their significance and the level of certainty with which this can be stated; and
  - f) a description of legal and policy consequences.

### **Follow-up and monitoring** (see Part F of the Handbook)

29. This stage should include:
- a) implementation of conditions/planning agreements;
  - b) designing and agreeing a monitoring strategy with consultees;
  - c) an audit of predicted impacts against the actual situation; and
  - d) taking measures to rectify unexpected impacts or ineffective mitigation or compensation measures.

# Appendix 3: Geodiversity (Earth Heritage) Impact Assessment

## Introduction

1. This Appendix explains in more detail the issues likely to arise in the EIA process in respect of geodiversity conservation. There are no published environmental assessment techniques or good practice methods relating specifically to geodiversity impact assessment. Geodiversity issues are often overlooked in published Environmental Statements and, unless a geological or geomorphological SSSI is involved, competent authorities may also overlook potential geodiversity impacts. Consequently, consideration of these impacts may be absent or inadequate at any stage in the EIA process and one of the key objectives of the guidance in this Appendix is to help to remedy such deficiencies.
2. The EIA process described in the main text of this Handbook is entirely relevant and applicable to geodiversity impact assessment. Equally, geodiversity issues should be an integral consideration at every step in the process. This Appendix:
  - (a) sets out the importance of geodiversity considerations in EIA;
  - (b) summarises the general classification of geodiversity sites and their conservation objectives relevant to the EIA process;
  - (c) identifies the main or typical threats to geodiversity, i.e. the main potential impacts, and project types particularly relevant to geodiversity conservation; and
  - (d) provides general advice on assessing the significance of geodiversity impacts.

Note that assessment of impacts on soils are addressed separately in [Appendix 4](#).

## References

3. Reference is made here to the following publications:

Prosser, C., Murphy, M. & Larwood, J. (2006) Geological conservation: a guide to good practice. English Nature, Peterborough: <http://publications.naturalengland.org.uk/file/84039>

Thompson, A., Hine, P.D., Poole, J.S. & Greig, J.R. (1998). Environmental Geology in Land Use Planning. A Guide to Good Practice Report to DETR by Symonds Travers Morgan, East Grinstead

HR Wallingford (2000). A Guide to Managing Coastal Erosion in Beach/Dune Systems. Scottish Natural Heritage, Perth

Hoey, T.B. et al. (1998). Engineering Methods for Scottish Gravel Bed Rivers. Scottish Natural Heritage Review, No. 47

Scottish Natural Heritage 2008. Scottish Fossil Code. Scottish natural Heritage, Perth

Wilson R.C.L. (Ed), (1994). Earth Heritage Conservation. The Geological Society in association with The Open University, Milton Keynes

Scotland's Geodiversity Charter 2012-201: <http://scottishgeodiversityforum.org/charter/>

SNH Information and advisory notes on earth heritage conservation

## Importance of Earth Heritage Considerations in Environmental Impact Assessment

4. Geodiversity considerations are an essential element of the EIA process and any significant impacts on geodiversity features and sites must be included in an Environmental Statement.
5. Annex III of the EIA Directive, and Schedules in all of the EIA regulations, require that an Environmental Statement must include a description of the aspects of the environment likely to be significantly affected by the development, including, inter alia, landscape, soil and water and the interrelationship between them and all other aspects of the environment.
6. Schedules in all of the EIA regulations also specify that an Environmental Statement may include, by way of explanation or amplification, information on, inter alia:
  - (a) the nature and quality of materials to be used in production processes;
  - (b) the type and quantity of expected pollutants including pollution of soils and water;
  - (c) the likely significant direct and indirect effects of the proposal which may result from the use of natural resources including secondary, cumulative, short, medium and long- term, permanent, temporary, positive and negative effects.
7. The EIA regulations provide all competent authorities with the power to require the above information to be submitted, having regard in particular to current knowledge and methods of assessment, where it is reasonably required to give proper consideration to the likely environmental effects of the proposed development.
8. Thus, all geodiversity interests can and should be included in an Environmental Statement and throughout the EIA process wherever the effects of a proposal are likely to be significant. Where they are not included the competent authority should require the developer to submit the information before it grants any consent for the project.

## Geodiversity Site Classification and Objectives Relevant to Environmental Impact Assessment

9. The potential effects of a project on geodiversity interests will usually depend on two main considerations:
  - (a) the type of geodiversity site or feature; and
  - (b) the type of project, including its nature, scale, location, duration, etc.
10. Impact assessment therefore needs to take account of the differing issues and conservation objectives for geodiversity sites. Table 1 summarises the classification of geodiversity sites and indicates the changing emphasis of the key conservation objectives.

### Types of Impact See Sections C.4, C.7, C.8 and C.9 of the Handbook

11. All likely significant effects on geodiversity interests should be assessed. Generally, effects, or impacts, are likely to fall into one or more of the categories summarised in Table 1 below. For each category, examples of potential impacts are given.

**Appendix 3 Table 1: Site Classification and Conservation Objectives Relevant to EIA**

Classification	Sites Types	Conservation Objectives	
<b>Integrity Sites</b>	Coastal systems	Minimise changes, avoid significant interference with natural processes and preserve integrity of physical attributes, composition, structure and visibility of systems and sites.	
	River systems		
	Other active geomorphological areas/sites		
	Caves and karst sites		
	Static geomorphological sites, e.g. kames, eskers		
<b>Fine Sites</b>	Unique/finite mineral or fossil sites		
	Old mine dumps/bings		
	Underground mines and tunnels		
	Buried interest		
<b>Exposure or Extensive Sites</b>	Buried interest		Preserve exposures judging changes on their merits in terms of exposure, and where possible, enhance the sites.
	Underground mines and tunnels		
	Inland natural outcrops		
	River and stream sections		
	Road, rail and canal cuttings		
	Coastal cliffs and foreshore exposures		
	Exposures in disused quarries, pits and cuttings		
	Exposures in active quarries/pits		

**Appendix 3 Table 2: Potential Earth Heritage Impacts**

<b>Indirect/ Direct</b>	<b>Type</b>	<b>Example</b>	<b>Timescale</b>	<b>Reversibility</b>	<b>Comments</b>
<b>Integrity Sites</b>	Loss	Landtake from site or feature	Permanent	Irreversible	Usually adverse can be cumulative
	Removal	Mineral extraction from geological feature e.g. a kame	Permanent	Irreversible	Usually adverse can be cumulative
	Fragmentation	Partial removal of features	Permanent	Irreversible	Usually adverse, often cumulative
	Burial	Burial by landfill material of quarry or cutting	Permanent	Irreversible	Usually adverse
	Obscuring/covering	Afforestation over geological features	Long-term	Reversible	Usually adverse can be cumulative
		Mineral overburden dump on geological features	Medium-term	Reversible	Usually adverse
		Screen mounds around construction site	Short-term	Reversible	Usually adverse
	Changes to natural system	River engineering works/ flood defences	Permanent or long-term	May be irreversible	Usually adverse can be cumulative
	Changes to coastal process	Coast protection works	Permanent or long-term	May be irreversible	Usually adverse can be cumulative
<b>Indirect</b>	Consumption of natural resources	Mineral extraction	Permanent	Irreversible	Usually adverse
	Changes to natural systems	River engineering works/ flood defences	Permanent or long-term	May be irreversible	Usually adverse can be cumulative
	Changes to coastal processes	Coast protection works	Permanent or long-term	May be irreversible	Usually adverse can be cumulative
	Obstructing access	Closure of paths to geological features	Various timescales	Usually reversible	Usually adverse
	Enhancing access	Provision of access and/ or interpretation	Various timescales	Usually reversible	Usually beneficial
	Obscuring views of geological and landform features	Afforestation	Long-term	Reversible	Usually adverse can be cumulative
	Changes to setting and context	Built development	Permanent	Irreversible	Usually adverse can be cumulative



## Project Types Particularly Relevant to Geodiversity Conservation

See Sections C.4, C.7, C.8 and C.9 of the Handbook

12. Almost any project type that may be subject to the EIA procedures could potentially affect earth heritage interests. However, experience indicates that particular project types frequently have significant earth heritage implications and frequently raise specific issues in the EIA process. These are summarised in Table 3.

**Appendix 3 Table 3: Projects Frequently Resulting in Significant Earth Heritage Impacts**

Project Type	Site Types Potentially Affected
<b>Mineral Extraction</b>	Outcrops, exposures, landforms, geomorphological (both static and active), river systems and stream sections; old mines and tunnels, caves and karst, unique mineral and fossil sites, mineral waste dumps, soils.
<b>Landfill/landraise</b>	Active and disused quarries, pits, cuttings, mines and tunnels, static and active geomorphological sites, caves and karst, unique mineral and fossil sites, soils.
<b>Mineral Restoration</b>	Restoration of active or disused pits and quarries can affect exposures in active/disused quarries, pits and cuttings, landforms, river systems, outcrop in stream sections, old mines and tunnels, caves and karst, unique/finite mineral and fossil sites, mineral waste dumps, soils.
<b>Coast Protection</b>	Coastal features, including cliffs and foreshore, and natural coastal processes including erosion and accretion.
<b>Flood Prevention</b>	Coastal features, including cliffs and foreshore, and natural coastal processes including erosion and accretion, natural lochs, river systems and outcrops in stream sections, soils.
<b>River Engineering</b>	Riverine features, river systems, river cliffs, outcrop in stream sections, natural lochs and soils.
<b>Land Drainage</b>	Natural coastal processes, river systems, stream sections, natural lochs and soils.
<b>Coastal Reclamation</b>	Coastal features, including cliffs and foreshore, and natural coastal processes including erosion and accretion.
<b>Hydro Schemes/Reservoirs</b>	Active and disused quarries, natural lochs, river systems and outcrop in stream sections and river cliffs.
<b>Coastal Development e.g. marinas, barrages and built developments</b>	Coastal features, including cliffs and foreshore, and natural coastal processes including erosion and accretion.
<b>Afforestation</b>	Inland outcrops and stream sections and other exposure site types, buried interest, landforms, geomorphology (both static and active), and river systems.
<b>First Cultivation of Uncultivated Land</b>	Static and active geomorphological sites, river systems, inland outcrop and stream sections, buried interest, soils.
<b>Other Land Management Changes</b>	Can affect run off, rates of erosion and accretion, sediment supplies, river systems and stream sections.
<b>Dredging</b>	Natural coastal processes including erosion and accretion..
<b>Major industrial/Housing or other urban developments</b>	Outcrops, exposures, landforms, geomorphological (both static and active), river systems and stream sections; old mines and tunnels, caves and karst, unique/finite mineral and fossil sites, mineral waste dumps, soils.
<b>Transport infrastructure</b>	Outcrops, exposures, landform, geomorphological (both static and active), river systems and stream sections; old mines and tunnels, caves and karst, unique mineral and fossil sites, mineral waste dumps, soils

13. Other typical pressures and impacts on earth heritage features, systems and habitats are summarised in Table 4 below. It should also be appreciated that the different life stages of a project may have different effects on the earth heritage resource, [Figure 3](#) of the Handbook and [Section C.7](#) highlight these life stages.

**Appendix 3 Table 4: Pressures and Impacts on Geodiversity Features, Systems and Habitats**

Pressure	Examples of on-site impacts	Examples of off-site impacts on active process systems and habitats
<b>Mineral extraction (Includes pits, quarries, opencast, extraction from rivers, dunes and beaches).</b>	Destruction of landforms, rock outcrops, and sediment records. Destruction of soils, structure and soil biota. May have positive benefits in creating new rock or sediment sections.	Contamination of watercourses. Changes in sediment supply to active process systems, leading to deposition or channel scour. Disruption of drainage network (impacts on runoff). Dust (may affect soil pH).
<b>Restoration of pits quarries</b>	Loss of rock, sediment or soil exposures. Loss of natural landform. May have positive benefits in creating new accessible sections.	Habitat creation.
<b>Landfill</b>	Loss of rock, sediment or soil exposures. Loss of natural landform; soil disturbance.	Detrimental effects of gases and other decomposition products on soils and soil biota. Contamination of water courses. Contamination of groundwater. Redistribution of waste on beach/dune systems.
<b>Commercial and industrial developments</b>	Large scale damage, obscuring and disruption of surface and sub-surface features including rock outcrops, landforms and soils.	Changes to geomorphological processes downstream, arising from channelisation or water abstraction.
<b>Transport infrastructure</b>	Negative effects from land-take, obscuring or removing rock outcrops, disruption of landforms, soils, hydrology and geomorphological processes, leading to permanent loss or fragmentation of geodiversity features. The construction phase can result in disturbance of natural processes both directly and indirectly (e.g. through the consequent need for on-site and off-site coast protection, slope stabilisation measures or river bank protection). Site restoration works can obscure new or replacement geological sections.	Changes to geomorphological processes downstream, arising from channelisation. During construction phase: contamination of watercourses; changes in sediment supply to active process systems, leading to deposition or channel scour; disruption of drainage network (impacts on runoff).
<b>Coast protection</b>	Loss of coastal exposures. Destruction of active and relict landforms. Disruption of natural processes	Changes to sediment circulation and processes downdrift.
<b>River management/ engineering</b>	Loss of exposures. Destruction of active and relict landforms. Disruption of active processes.	Changes to sediment movement and processes downstream. Change in process regime.
<b>Afforestation</b>	Loss of landform and outcrop visibility. Physical damage to small scale landforms. Stabilisation of dynamic landforms (sand dunes).	Increase in sediment yield and speed of run-off from catchments during planting and harvesting. Changes to water chemistry
<b>Agriculture</b>	Landform damage through ploughing, ground levelling and drainage. Soil compaction, loss of organic matter, reduction in biodiversity. Effects of excess fertiliser applications on soil chemistry and biodiversity. Effects of pesticides on soil biodiversity.	Changes in run-off response times arising from drainage. Episodic soil erosion leading to increased sedimentation and chemical contamination in lochs and river systems.
<b>Other land management changes (e.g. drainage, dumping, construction of tracks)</b>	Degradation of exposures and landforms.	Changes in run-off and sediment supply. Drying out of wetlands through local and distal drainage.

**Appendix 3 Table 4: Pressures and Impacts on Geodiversity Features, Systems and Habitats**

Pressure	Examples of on-site impacts	Examples of off-site impacts on active process systems and habitats
<b>Recreation (Infrastructure, footpath development, use of all-terrain vehicles).</b>	Physical damage to small-scale landforms and soils. Localised soil erosion. Stabilisation and other works to secure public safety. Safety works obscuring outcrop.	
<b>Soil pollution</b>	Acidification of soils. Accumulation of heavy metals.	Downstream impacts on watercourses. Contamination of groundwater.
<b>Soil erosion</b>	Deterioration of landforms.	Enhanced sedimentation streams and lakes. Changes in water chemistry.
<b>Climate change</b>	Changes in active system processes. Changes in system state (reactivation or fossilisation).	Changes in flood frequency. Changes in sensitivity of landforming environments (rivers, coasts, etc.) leading to changes in types and rates of geomorphological processes (e.g. erosion, flooding).
<b>Sea-level rise</b>	Changes in coastal exposures and landforms.	Changes in wider patterns of erosion and deposition. Increased flooding.

### Assessing Significance of Earth Heritage Impacts

See [Section C.8](#) of the Handbook

14. Where effects on key earth heritage resources are likely to occur specialist advice is essential. Generally, SNH would consider earth heritage impacts to be significant where, either alone or in combination with other projects, the project would lead to:
  - (a) adverse or beneficial impacts on the systems or processes or features for which a geological/geomorphological SSSI had been notified;
  - (b) permanent or long-term change that would affect the integrity and long-term sustainable management of natural coastal processes and other natural geomorphological and hydrological systems;
  - (c) permanent or long-term change to the quality of the natural heritage locally or regionally as a result of the destruction or enhancement or widespread or extensive degradation or improvement of earth heritage features which have been designated, or could merit designation, as a Regionally Important Geological/Geomorphological Site (RIGS); or
  - (d) major constraints on or improvements to access to or interpretation of geological/geomorphological SSSI.
  
15. It is particularly important that these considerations are not confined to the on-site, direct impacts of a proposal but applied equally to off-site, indirect effects such as downstream effects of river engineering works or coast protection or flood defence works or developments leading to changes in surface water run-off to natural river systems.

# Appendix 4: Assessment of Impacts on Soils

## Background

1. Soils occupy a unique position in earth heritage environmental assessment, because although explicitly listed as an environmental factor in the EIA Directive and Regulations, they are not explicitly and routinely covered by any of the existing designated area legislations in Britain. These designations are often used as the basis for assessing threats to biological, geological and geomorphological interests. The first site notified on the basis of its soils was a Regionally Important Geological and geomorphological Site (RIGS) in Anglesey, Wales in 2004, and further discussion for the development of a network of soils sites across the UK, based on the RIGS (Regionally Important Geological and Geomorphological Sites) approach started in 2012 by the British Society of Soil Science. At present no site has been identified in Scotland.
2. Because soils do not fit neatly into this site-based framework, they can be overlooked in EIA. The position of soils at the interface between the geosphere, biosphere and hydrosphere further compounds this, as they cannot be easily compartmentalised. They also play an important part in biodiversity conservation so, it is vitally important that soils information is included as an integral part of the EIA process, as changes to soils can have subsequent effects on other parts of ecosystems, such as vegetation, freshwater and coastal habitats condition and composition. Also key to natural heritage interests is the intrinsic value of the soil resource in its own right and its functional roles in the context of changing climate (e.g. as a carbon repository and source of greenhouse gases). The role of soils in delivering ecosystems services and environmental goods is now widely acknowledged (<http://www.hutton.ac.uk/research/themes/safeguarding-natural-capital/soil>).
3. The Scottish Soil Framework (SSF), published in 2009, provides links to the body of policy and guidance in place in Scotland providing some direct or indirect protection of soils in wider countryside. The principal aim of the SSF is to "[promote the sustainable management and protection of soils consistent with the economic, social and environmental needs of Scotland". As a result of one of the actions in the SSF, the Scottish Government subsequently published a report titled The State of Scotland's Soil (March 2011), which, among other things, sets out the drivers and pressures that affect the state of the soil and highlights seven threats to soil functions including contamination, erosion and landslides and compaction,

## Importance of Soil Considerations in Environmental Impact Assessment

4. Soil considerations are an essential element of the EIA process and any significant impacts on soils (properties and functionality) should be included in an Environmental Statement.
5. Annex III of the EIA Directive, and all of the EIA regulations require that an Environmental Statement must include a description of the aspects of the environment likely to be significantly affected by the development, including, inter alia, soil and water and the interrelationship between them and all other aspects of the environment.
6. Where significant adverse effects are identified, the Environmental Statement must include a description of mitigation measures.
7. Schedules in all of the EIA regulations also specify that an Environmental Statement may include, by way of explanation or amplification, information on, inter alia:
  - (a) the nature and quality of materials to be used in production processes;
  - (b) the type and quantity of expected pollutants including pollution of soils and water;
  - (c) the likely significant direct and indirect effects of the proposal which may result from the use of natural resources including secondary, cumulative, short, medium and long- term, permanent, temporary, positive and negative effects.

8. Regulation 23 of the principal regulations and equivalent provisions in all the other EIA regulations provide competent authorities with the power to require the above information to be submitted, having regard in particular to current knowledge and methods of assessment, where it is reasonably required to give proper consideration to the likely environmental effects of the proposed development.
9. Thus, soils can and should be included in an Environmental Statement and throughout the EIA process wherever the effects of a proposal are likely to be significant. Where they are not included the competent authority should require the developer to submit the appropriate level of soil information, commensurate with the scale and type of development and its impact, before they grant any consent for the project.
10. As it is not an offence in UK law to degrade or contaminate soil per se, the ways in which soils information is included in Environmental Statements are flexible, and influenced through various forms of guidance and advice issued by the Government and others. For example, some sectors of activities are covered by extensive soil guidelines (e.g. UK Forestry Standard and its associated suite of Guidelines (such as the Forests & Soil Guidelines and Forests & Water Guidelines), GAEC cross compliance, pollution control GBR rules). Apart from the EIA Regulations, the only other legislation that refers specifically to soil is that relating to the application of sewage sludge on agricultural land, principally on the basis of soil acidity and toxic metal concentrations in sludge and the receiving soil.
11. Also current planning legislation provides little support for soils, the National Planning Framework recognises Scotland's carbon rich soil as a key asset to protect. The value of certain soil type and soil functionality as natural heritage features of national importance is considered by SNH when considering the impact of development proposals. (Soils of National Conservation Importance in Scotland, <http://www.snh.gov.uk/docs/A465864.pdf>). The forthcoming National Peatland Plan (2014) will also enhance the protection of Scotland peatlands soils and promote action towards restoring this unique resources.

## Soil Functions

12. For assessment purposes, soils can be considered to have seven general functions (see SSF, 2009):
  - Providing the basis for food and biomass production.
  - Controlling and regulating environmental interactions - regulating water flow and quality.
  - Storing carbon and maintaining the balance of gases in the air.
  - Providing valued habitats & sustaining biodiversity.
  - Preserving cultural and archaeological heritage.
  - Providing raw material.
  - Providing a platform for buildings and roads.
13. These functions can be linked to the concept of ecosystem goods and services which is underpinned by the principle that human life depends on natural resources and that nature contributes to the fulfilment of human needs. Hence soil functions may be valued in terms of social, economic or ecological forms of land use and management.

## Soil Heterogeneity

14. Different soil types have their own characteristic properties, which affect the significance and magnitude of impacts and their ability to resist and adapt to threats. Some soils are relatively resistant (i.e. how much disturbance they can sustain before responding to change) and resilient (magnitude and persistence of change) and are able to support a wide range of potential applications, whereas others can only be utilised in more limited ways. Soil types and properties can change over short distances, and it is common to find a variety of soils on sites earmarked for development, often leading to some soils being exploited in ways for which their properties are unsuited. Further complexities are introduced by the fact that, unlike geological exposures or

landforms, which occupy distinct areas of the landscape and are generally fairly easy to assess, soils form a continuous pattern over the land surface and are for the most part hidden from view. All of these factors combine to create very specific requirements for EIA of soils.

**Source of Information** See Sections C.4, C.5 and C.6 of the Handbook

15. In order for informed decisions to be made, an adequate source of soil data and the ability to interpret changes in soil properties that may arise as a result of development impacts are a necessity.
16. The 2012 Scottish soil monitoring action plan provides details of key policies, legislation and guidance which may require soil information as part of their development and implementation and link to possible source of soil information as used in various monitoring activities in Scotland.
17. On a national scale, the former Soil Survey of Scotland (subsequently part of the Macaulay Land Use Research Institute in Aberdeen which has now merged with the Scottish Crop Research Institute to form the James Hutton Institute) undertook in the 1980s a comprehensive soil sampling and mapping exercise over the whole of Scotland. This National Soil Inventory for Scotland (NSIS) provided a full coverage of soil maps at 1:250,000 and a more detailed but partial coverage at 1:63,360 (mainly lowland areas), with missing areas being covered by unpublished 1:50,000 maps (upland areas). In addition, The James Hutton Institute holds a National Soils Archive comprehensive database of over 12,000 soil profile descriptions, collected concurrently with the mapping programme in the 1980s. This database was updated by a partial re-sampling of the NSIS (2007 – 2010). These data are of sufficient detail for assessment of land with reference to broad categories of land use.
18. Most of the James Hutton Institute soil information has been digitised. Other Scottish soil information held by partners organisation will be available via the Scottish Environment Website (SEWeb) soil daughter web page (Scottish soil data website SSDW). Free download of digital dataset remains strictly restricted to non-commercial users. Similarly BGS soil data (soil being here defined as a geological construct) can be visualised on the NERC soil portal (<https://www.bgs.ac.uk/nercsoilportal/>).
19. On a more local scale, existing spatial soil data tend to be patchy and of variable quality through being obtained by a range of methods. Moreover they are often difficult to consult, often being unpublished and held by a number of different organisations and individuals. Some local authorities (e.g. West Lothian, Angus) have produced geodiversity and soil audits which do provide additional information on soil state and pressures. SNH will published a series of information notes of Soils of National Conservation Importance for planning authority due to be completed in 2014.
20. There is, however, a particular scarcity of data in urban and peri-urban areas (with the exception of Glasgow conurbation BGS urban survey), as soil surveys have traditionally been carried out almost solely for agricultural or forestry purposes. As most environmental assessments are made at the more site specific level, it is essential that the authorities involved seek appropriate professional advice where it is evident that soil factors will be integral to the assessment. The scoping stage is of particular importance here, as the time to consider the effects on soils is at an early stage.
21. The ability to interpret routine soil measurement is constrained by our understanding of the complexity of soil processes. Standard operational protocols for the measurement and interpretation of soil state and change are only available for a limited number of soil pressures and functions, such as soil nutrient requirement for biomass production, physical soil properties for soil engineering assessment, and chemical loading for pollution control. Agreed standards are more variable in other fields such as soil biodiversity assessment or interpretation of impacts on natural and semi-natural soils and habitats. The state of understanding, however, is improving through the development of strong research drivers to support establishment of national and European soil protection frameworks.

## References

22. Useful sources of soil information for EIA include:

Access to soil maps and soil data

- The James Hutton Institute: [http://www.macaulayscientific.com/products\\_maps\\_list.php](http://www.macaulayscientific.com/products_maps_list.php)
- Scottish Soil data website: <http://preview.scottishsoils.aea.com/> (note this is a pilot site and the URL will be updated after the official launch of site in late 2013)
- BGS soil portal: <https://www.bgs.ac.uk/nercsoilportal/>

Supporting information

- The Scottish Soil Framework (2009): <http://www.scotland.gov.uk/Resource/Doc/273170/0081576.pdf>
- Dobbie, K.E., Bruneau, P.M.C and Towers, W. The State of Scotland's Soil (2011): [http://www.sepa.org.uk/land/land\\_publications.aspx](http://www.sepa.org.uk/land/land_publications.aspx)
- SNIFFER (2009) Strategic Environmental Assessment- Practical Guidance for Practitioners on How to Take Account of Air, Water and Soil- Project UKCC09: <http://www.seaguidance.org.uk/1/Homepage.aspx>
- Code of Practice for the sustainable use of soil (2011): <https://www.gov.uk/government/publications/code-of-practice-for-the-sustainable-use-of-soils-on-construction-sites>
- Towards an assessment of UK peatlands (2011): <http://jncc.defra.gov.uk/page-5861>
- Scottish Soil Monitoring Action Plan (2012): [http://www.environment.scotland.gov.uk/our\\_environment/environmental\\_monitoring/soil\\_monitoring\\_action\\_plan.aspx](http://www.environment.scotland.gov.uk/our_environment/environmental_monitoring/soil_monitoring_action_plan.aspx)

Mobile Apps to support field evaluation

- SOCit - Soil carbon content developed by JHI (iphone and android): <http://www.hutton.ac.uk/news/new-soil-carbon-app-scottish-farmers>
- SIFSS (Soil Indicators for Scottish Soils) developed by JHI ( iphone only): <http://www.hutton.ac.uk/news/scotland%E2%80%99s-national-soils-data-now-your-fingertips>
- Calculating carbon savings from wind farms on Scottish peat lands - A New Approach. (2008): <http://www.scotland.gov.uk/Resource/Doc/917/0117390.pdf>

## Predicting Soil Impacts: Projects Likely to Give Rise to Impacts on Soils

See Sections C.4, C.7 and C.8 of the Handbook

23. The most extreme impact on soils is a total coverage of soil (so-called burial or sealing) by an impermeable surface, which may or may not be associated with a physical removal of topsoil and subsoil. Soil sealing is often considered as irreversible as no remediation and restoration effort can return a soil to its previous condition and functionalities. Where activities take place on carbon rich (peat and peaty soil), any loss or disturbance of surface horizon will lead to irreversible loss of carbon in the atmosphere (Greenhouse gases emission resulting from oxidation of peat) and in the water environment (DOC and particulates loss form soil erosion and runoff).
24. More often, project developments likely to give rise to impacts on soils in EIA will only partly modify the soil. Changes can be directly relevant to the functional capacity, sensitivity, vulnerability and general condition of soils. The range of type of projects likely to give rise to impacts on soils may include but not be limited the following:
- urban planning and infrastructure development (included housing, SUDS, transport and power supply infrastructure, footpath development);
  - other developments such as landfill, sewage works, hazardous installations and industrial developments;

- activities associated with the reclamation of contaminated and derelict land prior to development;
  - land stabilisation (not associated with site preparation phase in development control) (e.g. soft and hard engineering for road networks, and river and coastal management and realignment);
  - land drainage for improving land productivity or access to land;
  - mineral, gravel, sediment and peat extractions covered by EIA;
  - archaeological, geological or soil excavations;
  - land and habitat creation, restoration and enhancement;
  - recreation (e.g. footpaths, sports facilities, park and greenfield);
  - land use changes associated with forestry;
  - land use changes associated with agriculture (including energy crops).
25. Some of the main project types likely to give rise to impacts on soils in EIA (see Figure 1 below) and which can be directly relevant to the functional capacity, sensitivity, vulnerability and general condition of soils include:
- location of developments (e.g. sewage works, hazardous installations, landfill sites)
  - other industrial developments
  - urban and infrastructure development
  - reclamation of contaminated and derelict land
  - land instability
  - land drainage
  - mineral extraction
  - archaeological excavations
  - land restoration
  - recreation (e.g. footpaths, sports facilities)
  - land use changes associated with forestry
  - land use changes associated with agriculture.

### Predicting Soil Impacts: Impacts on Soils

See Sections C.4, C.7 and C.8 of the Handbook

26. The impacts of these projects on soil properties and soil processes are complex and may include amongst others:
- increased sensitivity to soil erosion. This may lead to direct loss of the soil resource itself, loss soil nutrients and potential mobilisation of inherent soil contaminants. Soil erosion is often associated with significant off-site impacts (water quality, silting/ sedimentation of water reservoirs, landslides).
  - changes to soil water regime. In organic soils, drying up of peat will lead to oxidation of organic matter and increase erosion. Increased runoff and leaching may also contribute to greater off-site pollution and loss of soil nutrients.
  - changes in pH (acidification or alkalinisation). This will impact on soil biodiversity and many of the soil bio-chemical processes (nutrient and carbon turnover, pollution degradation).
  - alteration of soil physical properties, including soil compaction and structural deterioration from heavy machinery, trampling and handling of soil.
  - increase in soil pollution loading, e.g. from heavy metals, organic compounds, industrial wastes, fertilisers and pesticides.
  - decline in soil fertility, e.g. removal of soil nutrients or decline in nutrient input sources.
  - loss of or reduction in biodiversity (both above ground vegetation and soil biodiversity), e.g. soil macrofauna, fungi and microbial communities.
  - loss of organic matter. This may lead to increased dissolved organic carbon (DOC) in watercourses.
  - increased emission of greenhouse gases.
  - homogenisation and loss of characteristic horizons, e.g. during stripping and storage of topsoil and subsoil in planning development.
  - damage to soil historical and archaeological value, including destruction or modification of palaeosols and other buried archaeological artefacts, imprints of past land use and land



- practices and environmental markers (e.g. past climatic records from pollen sequences in peat and rig and furrow systems).
- other direct impacts on geodiversity features, including removal or alteration of parent material.
- loss or sealing (burial) of soil.
- loss of soil water buffer and storage capacity relevant to control of water supply and flood control.

27. Figure 1 below summarises the main pressures on soils and examples of the various types of on-site and off-site impacts they may cause.

### **Soil Properties and Functions: Mitigating Measures**

See Section C.9 of the Handbook

28. In relation to soil properties and functions it is essential to remember that soils are a non-renewable resources at a human time-scale. At the outset, a fundamental principle should be to avoid or at least significantly limit the severity of impact before considering mitigation measures rather than seeking any potential trade-off of soil values.

29. In assessing soil mitigation measures, consideration should be given to the following:

- (a) By contrast with mitigation measures for other aspects of the environment, a significant impact on a specific soil function or properties may be mitigated through the adaptation of other soil functions and soil properties (e.g. loss of basis for biomass production trade against increase support to habitats). This, however, can only be justified in cases where the restoration or remediation of a soil function and soil properties to their pre-existing conditions is not possible within reasonable operational standards according to current good practice and state of knowledge. None of the above should be equated as a trade-off and must always be supported by monitorable evidence of the overall benefit of the selected measures on the soil functionality and its interaction with associated biodiversity and geodiversity.
- (b) Soil mitigation measures cannot be designed to address aspects of climate change unless the impacts on a soil are likely to lead to significant reduction of its resilience and resistance to climatic factors or lead to potentially increased emission of greenhouse gases. Where this is the case, the mitigation measures must provide appropriate options to account for these longer term impacts.
- (c) Most mitigation measures aiming to create or restore soil properties and soil functions will not immediately deliver fully functional soils. They will only initiate a direction of change towards a new or improved soil state. It is therefore important for the applicant to demonstrate the effectiveness of the whole mitigation process, not just the initiation of the process or the success of interim stages.

30. By matching as far as possible particular developments with appropriate soils, the consequences of many of these impacts can be minimised. In this context, EIA involves the consideration of key soil properties and characteristics in relation to the proposed development or change of land use. Some of the more important soil properties that should be considered in mitigation measures are:

- texture
- structure
- organic matter content
- pH
- nutrient status
- depth – both total and of individual horizons
- parent material characteristics
- horization (i.e. nature and arrangement of individual horizons)
- salinity
- stoniness
- soil water regime
- soil contaminants (as appropriate)
- soil biological indicators (when appropriate)

31. The mitigation measures should consider how the above properties, either separately or when relevant in combination, may act as limiting factors to any desirable soil functionality.

## 32. Appendix 4 Figure 1

### Examples of Pressures and their Impacts on Soils

Pressure	On-site impacts	Off-site impacts
<b>Reclamation of contaminated land</b>	Disposal of contaminants. Changes in chemistry. Lack of suitable quality soil.	Leakage of contaminants to watercourses.
<b>Location of developments</b>	Soil and carbon loss; contamination; structural damage; changes to soil water regime; disposal of wastes; effects on soil biota.	Leakage of contaminants to watercourses. Groundwater contamination. Effects of waste products on vegetation.
<b>Urban and infrastructure development</b>	Soil loss or burial (sealing); contamination; structural damage.	Ground and surface water contamination.
<b>Land instability</b>	Shrinkage/swelling of clays; compaction; erosion.	Movement of soil off-site, landslide.
<b>Land stabilisation (river and coastal protection)</b>	Nutrient flushed from newly flooded areas, soil water change, salinization.	Reduced sediment yield, leading to erosion elsewhere, leaching of soil contaminant to water course.
<b>Land drainage</b>	Oxidation of organic matter; physical damage; soil water changes; effects on pH.	Sedimentation of water courses. Changes to water chemistry.
<b>Mineral extraction</b>	Loss of soil; physical damage; effects on biota; contamination; soil stripping and storage.	Contamination of water courses. Changes to sediment load.
<b>Archaeological and other soil excavations</b>	Damage to palaeosols, soil palaeoenvironment records.	Compound loss of historical landscape features
<b>Land restoration</b>	Problems associated with reinstatement of previous soil conditions, suitability of soil properties to support restored habitats.	Changes to water chemistry.
<b>Recreation</b>	Erosion; compaction; loss of organic matter.	
<b>Forestry</b>	Erosion; changes to pH; changes to horizons; changes to soil water; effects on soil biota.	Increased sediment yield. Pollution of surface water. Changes to run-off. Changes in water chemistry.
<b>Agriculture</b>	Loss of organic matter; erosion; changes to nutrient status; compaction; structural damage; effects on biodiversity; pH changes; homogenisation.	Pollution of groundwater. Pollution of surface water. Increased sediment yield.

# Appendix 5: Outdoor Access Impact Assessment

## Introduction

There is no precise definition of “outdoor access”. Rather, it is a diverse collection of activities which are linked by common values and by a dependence on open air settings for their practice or enjoyment. It can range from walking to windsurfing to bird watching. Outdoor access can be undertaken for a variety of purposes including recreation, education, socialising, health benefits and travel from one place to another. The types of recreation in which SNH has a particular interest are as follows.

- Those that are dependent on, or draw inspiration from the enjoyment of the qualities of the outdoors.
- Recreation that is practised informally and non-competitively.
- Accessible to and practised by the general public, without the need for membership of groups or societies in order to practice that activity.

Whatever the activity, SNH takes an interest in all types of recreation which take place out of doors, especially where they make use of natural resources or have effects on them, or on other people’s enjoyment of their own recreation.

1. This Appendix explains in more detail the issues likely to arise in the EIA process in respect of outdoor access. There are no published EIA techniques or good practice methods relating specifically to outdoor access impact assessment. Outdoor access issues are often overlooked or understated in published Environmental Statements unless a particularly important facility is involved. This Appendix aims to remedy such deficiencies.
2. It should be borne in mind that recreational developments may themselves create impacts on the natural heritage. These impacts will need to be assessed by the general procedures set out in this guide, and include adverse effects on, or opportunities for access to the recreation being practised on land to be developed or adjacent to it.
3. The general procedures of assessment described in the main text of this Handbook are relevant and applicable to outdoor access issues. Equally, outdoor access issues should be an integral consideration at every step in the process. This Appendix:
  - (d) sets out the importance of outdoor access considerations in EIA;
  - (e) summarises the main outdoor access provisions relevant to the EIA process;
  - (f) identifies the main or typical threats to outdoor access, i.e., the main potential impacts, and project types particularly relevant to outdoor access provision; and
  - (g) provides general advice on assessing the significance of outdoor access impacts.
4. There are very close relationships between the likely effects of development on visual amenity, guidance on which is found in [Appendix 1](#) of this Handbook, and the extent to which people’s enjoyment will be impaired, either in the generality or, in many cases, when engaging in open air recreation. This Appendix, however, deals with issues that arise when developments impinge on the ability of people to engage in open air recreation or on the facilities used by them rather than what may be seen of the development from the place at which people are taking their leisure.
5. Throughout the EIA process, impacts on outdoor recreation should be integrated with other assessments to the extent that it may be relevant (e.g. visual impacts assessment, effects on material assets, etc.). Furthermore, consultation should be undertaken with bodies representing recreation interests wherever impacts on those interests may be significant. The access authority should play a key role in assessing impacts on recreational access, whether or not it may be the

competent authority. Where it considers that more information is required to assess such impacts, it should encourage the competent authority to require submission of further information.

## Enjoyment of the Natural Heritage

6. SNH's responsibilities for enjoying the natural heritage are founded in the 1967 Countryside (Scotland) Act, and in its enabling legislation, the 1991 Natural Heritage (Scotland) Act. In the legislation, the word enjoyment is primarily about the use of the countryside for open-air recreation, with the 1967 Act providing the local authorities (and also SNH) with a range of powers and duties to facilitate better access and the provision of facilities. The National Parks (Scotland) Act 2000 gave to national park authorities powers similar to those of local authorities. Part 1 of the Land Reform (Scotland) Act 2003 established statutory access rights to most land and inland water, subject to these rights being exercised responsibly, and also introduced very specific duties and powers for local authorities and national park authorities for upholding access rights and for planning and managing access. This Act has been effective since 9 February 2005. People can also enjoy the countryside as part of everyday travelling to work or for social reasons; people enjoy both extensive and small-scale element of the natural heritage and it is also possible to enjoy the values of the countryside at a distance, as an important existence value, through which it is sufficient for people to know that valued places exist and are unaffected by adverse changes.
7. In this way, enjoyment can encompass values which underlie both the physical aspects of recreation and the varied aesthetic pleasures that people find in the outdoors. SNH's prime role is with the informal pursuits, but we also take a positive stance on behalf of the active and organised pursuits which primarily fall under SportsScotland's remit, always assuming that these activities themselves are being practised in ways which do not cause adverse effects on natural resources. Some recreational activities do fall outside SNH's remit. These include field sports such as angling and shooting which are normally a form of private or commercial use of land or water, and fall outside issues of access rights. Also the way in which these recreational activities are practised, and their commercial links and special management needs place them beyond SNH's remit to facilitate public enjoyment.
8. In assessing the effects of a development on access, a distinction should be made between the access itself, which is the ability to make use of a site or route, and accessibility, which is the ease with which access can be taken. In different settings, these factors may have different levels of significance. In settings close to where people live we are usually concerned to enhance both access and accessibility but in a remoter setting in open country, access may not be a major factor and greater accessibility of less certain value. Assessment should always consider the needs of recreation dispersed in the countryside as well as at facilities, and the importance of local networks (and threats to the loss of key linkages) always borne in mind.

## Importance of Outdoor Access Considerations in Environmental Impact Assessment

9. Outdoor access considerations are an essential element of the EIA process and any significant impacts on outdoor access features and sites must be included in an Environmental Statement.
10. Annex III of the EIA Directive, and all the EIA regulations require that an Environmental Statement must include the aspects of the environment likely to be significantly affected by the development including:
  - (a) Population
  - (b) Landscape
  - (c) Cultural heritage, and
  - (d) the inter-relationship between them and all other aspects of the environment.

11. Where significant adverse effects are identified, the Environmental Statement must include a description of mitigation measures (see below).
12. Schedules in all the EIA regulations also specify that an Environmental Statement may include, by way of explanation or amplification, information on, inter alia:
  - (a) the type and quantity of expected pollutants including noise, vibration, light, heat, and radiation;
  - (b) the likely significant direct and indirect effects of the proposal which may result from the emission of pollutants and the creation of nuisances, including secondary, cumulative, short, medium and long-term, permanent, temporary, positive and negative effects.
13. Competent authorities have the power to require the above information (and any other information in Schedule 4) to be submitted, having regard in particular to current knowledge and methods of assessment, where it is reasonably required to give proper consideration to the likely environmental effects of the proposed development.
14. Thus, outdoor access interests can and should be included in an Environmental Statement as a crucial element of the interaction of human beings with the environment often involving resources of a physical or cultural nature. They should be reflected throughout the EIA process, wherever the effects of a proposal are likely to be significant. Where they are not included the competent authority should require the developer to submit the information before it grants any consent for the project.

### Outdoor Access Facilities Relevant to Environmental Impact Assessment

See Sections [C.4](#), [C.6](#), [C.7](#) and [C.8](#) of the Handbook

15. The potential effects of a project on outdoor access interests will usually depend on the following main considerations:
  - (a) the type of outdoor access facility;
  - (b) the type of project, including its nature, scale, location, duration, etc.; and
  - (c) the nature of recreation practised at the site or facility.
16. Impact assessment therefore needs to take account of the differing issues and objectives for outdoor access facilities. Access rights are a material consideration in planning and related decisions. Table 1 below summarises the types of countryside access facilities relevant to the EIA process, in addition to access rights.

**Appendix 5 Table 1:  
Outdoor Access Resources Relevant to EIA in addition to access rights**

<b>Area based facilities</b>	<ul style="list-style-type: none"> <li>– National Park , Regional Park, Country Park</li> <li>– Geoparks</li> <li>– Munros</li> <li>– Areas subject to S.49A Management Agreements including public access</li> <li>– National Nature Reserve and Local Nature Reserves</li> <li>– Local open space and green infrastructure</li> <li>– Inland lochs and reservoirs</li> <li>– Promoted surfing, diving and climbing sites</li> </ul>
<b>Linear access facilities</b>	<ul style="list-style-type: none"> <li>– Core Paths and the wider paths network available through access rights</li> <li>– Long Distance Routes, regional routes, National Cycle Network</li> <li>– Public rights of way</li> <li>– Path orders</li> <li>– Path Agreements (s30 of the Countryside (Scotland) Act and s21 of the Land Reform (Scotland) Act)</li> <li>– Permissive paths and routes on land where access rights do not apply</li> <li>– Rivers and canals</li> </ul>

17. The effects of any major development on people's ability to enjoy open air recreation in the countryside and their access rights can arise in a number of different ways, as shown in Table 2 below.

**Appendix 5 Table 2:  
Effects of Development on People's Ability to Enjoy Open Air Recreation in the Countryside**

Type of effect	Implications
Effects on the intrinsic quality of the resources enjoyed by people.	Aesthetic changes, mainly visual and aural as considered in earlier sections of this Appendix. However, there are recreational values in solitude, challenge and hazard, enjoyment of wildlife and habitats or in the sociability enjoyed in the more gregarious pursuits, which can be affected by development.
Direct effects on the facilities or infrastructure used to take access or for the practice of recreation.	Restriction of access to facilities, barriers, physical restrictions or limitations on the use of the site or facility, or even its loss.
Effects on the practice of recreations.	Restrictions or limitations on the kinds of recreations pursued, or in the ways in which they are practised, and limitations on specific recreations say by reduction in available space.
Foreclosure on options for future access development.	Any of the foregoing which might affect proposals either formalised and recorded statutory plans or local access and recreation strategies or less formerly known about, which might limit development of future options in enhancing the supply or quality of recreation opportunity for a community.
Implications for public safety.	These might arise from the development itself from the relocation of facilities to a less suitable location, from the intensification of use, or from the mixing of recreations previously having more space for their own use.
Restrictions on the less able.	Reductions to accessibility may lead to effects on the enjoyment of the disabled, the elderly or people who are otherwise disadvantaged (say, those without access to private motor transport).
Effects on particular recreations.	These will be assessed according to the specific circumstances, but might include issues such as a loss of access to boat launching or the loss of key link routes in an access network etc.

### Types of Impact

See Sections C.4, C.7 and C.8 of the Handbook

18. All significant potential effects on outdoor access facilities should be assessed. Generally, effects, or impacts, are likely to fall into one or more of the types summarised in Table 3 below. For each type, an example of potential impacts is given.

**Appendix 5 Table 3:  
Examples of Potential Outdoor Access Impacts**

Type	Example	Timescale	Reversibility	Comments
<b>Loss/closure/ extinguishment</b>	Landtake from route or facility for built development	Permanent	Usually irreversible	Usually adverse can be cumulative
	Permanent closure of right of way at motorway	Permanent	Irreversible	
	Temporary closure for mineral extraction	Short-medium term	Reversible	
<b>Diversion</b>	Hydro scheme or trunk road requires diversion of path	Permanent	Irreversible	Usually adverse can be cumulative
	Mineral extraction requires diversion of path	Long-term	Reversible	
	Waste disposal requires diversion of path	Medium-term	Reversible	
	Building construction works require diversion of path	Short-term	Reversible	
<b>Reduction in amenity</b>	Industrial plant/factory causes noise or smell to section of long distance route	Permanent	Irreversible	Usually adverse can be cumulative
	Mineral working causes noise, dust or vibration to country park.	Long-term	Reversible	Usually adverse can be cumulative
<b>Enhancement of amenity</b>	Golf course adjacent to a country park reclaims derelict land	Permanent	Irreversible	Usually beneficial
<b>Intrusion</b>	Telecommunications mast in wildland area	Medium to long-term	May be reversible	Usually adverse
<b>Obstructing access routes</b>	Closure of paths to e.g. Viewpoints and natural features	Various timescales	Usually reversible	Usually adverse
<b>Restriction on types of access</b>	Golf course having access rights restricted to right of passage	Various timescales	Usually reversible	Usually adverse
<b>Enhancing access</b>	Provision of access and/or interpretation	Various timescales	Usually reversible	Usually beneficial
<b>Changes to setting and context</b>	Built development adjacent to Regional Park	Permanent	Irreversible	Usually adverse can be cumulative

### Project Types Particularly Relevant to Countryside Access Conservation

19. Almost any project type that may be subject to the EIA procedures could potentially affect outdoor access interests. It is important to be alert to the potential impacts on outdoor access in all EIA cases. However, experience indicates that particular project types frequently have significant outdoor access implications and frequently raise specific issues in the EIA process. These are summarised in Table 4.

**Appendix 5 Table 4**  
**Project Types and Related Potential Impacts**

Project Type	Potential Impacts
Mineral Extraction	Adverse effects on adjacent facilities from noise, dust, vibration and visual impact and can require closure or diversion of linear facilities for long periods of time.
Landfill/landraise	Adverse effects on adjacent facilities from noise, dust, smell and visual impact and can require closure or diversion of linear facilities for medium periods of time.
Flood Prevention	Direct and indirect impacts on amenity of area facilities and can lead to permanent closure or diversion of linear routes.
Windfarms	Can change perception and amenity of both area and linear facilities through visual and noise impacts, access tracks can interfere with/or facilitate public access, general deterrent /attractor effects.
Hydro Schemes/ Reservoirs	Can affect wildland qualities of remote areas, interfere with pre-existing access and adversely affect amenity of routes along rivers/lochsides. Also can affect the ability to undertake, and the quality of, recreation on or in rivers.
Marine renewable schemes	Effects on coastal access and amenity and outdoor activities relying on coastal or maritime locations.
Power lines, masts and other pylons	Effects on valued landscapes especially in remote countryside.
Afforestation	Can affect wildland qualities of remote areas, interfere with pre-existing access and adversely affect amenity of area facilities and routes in the uplands.
Roads	Major road proposals often sever access routes and may lead to extinguishment or diversion. Area facilities can be adversely affected by noise and visual intrusions.
Major urban developments	Can reduce amenity value of area facilities and increase pressures for use on vulnerable areas. Can lead to extinguishment or diversion of rights of way.
Rural industrial and statutory undertaker developments	Effects on valued landscapes, loss of rural character, inappropriateness in the setting, loss or division of linear access routes, pollution.
Recreational developments	Implications for other recreational users/the site or area resource, affecting the quality of enjoyment by others, affecting levels of use of an area or accessibility to it.

### Assessing Significance of Outdoor Access Impacts

See Sections C.7, C.8 and D.9 of the Handbook

20. Where effects on key outdoor access resources are likely to occur specialist advice should be sought. Generally, SNH would consider outdoor access impacts to be significant where, either alone or in combination with other projects already approved, the project would lead to:
- (a) permanent or long-term effects on the resources on which enjoyment of the natural heritage depends, in particular where facilities have been provided by SNH or others under statutory powers;
  - (b) permanent or long-term change that would affect the integrity and long-term sustainable management of facilities which were provided by SNH or others under statutory powers;
  - (c) where there are recreational resources for open air recreation pursuits affected by the proposal which have more than local use or importance, especially if that importance is national in significance;
  - (d) major constraints on or improvements for access or accessibility to designated natural heritage sites;
  - (e) where mitigation and/or compensatory or alternative recreational provision is considered to be inadequate.



21. Assessment of the scale of prospective effects from a development on recreation and access can be considered against a range of criteria, not all of which will apply in any one circumstance. The main factors to be borne in mind are as follows.

**Appendix 5 Table 5:  
Assessment of the Scale of Effects of Development on Outdoor Recreation and Access**

Assessment Factor	Commentary
Otrusiveness or the scale of the effect in the context in which recreation takes place.	Thus noise effect might be accommodated or open to mitigation in an urban edge setting, but much less acceptable or even beyond amelioration in remoter countryside.
The intensity, frequency of occurrence, timing, or performance of the effect.	These will be important factors in assessment of the acceptability of effects on recreation. At the less intense levels of effect, the outcomes may be acceptable or open to mitigation either in intensity or through time limitations on certain activities within the development.
Potential for the effects to augment the scale and frequency of occurrence.	This is a precautionary point of reasonable anticipation of how effects might increase in scale over the years and thereby make mitigation ineffective.
The extent of local supply of access and recreation opportunities.	This involves an assessment of the extent to which a community has a shortage (or ample supply) of facilities which may be made worse by a development, allowing for the potential for compensatory provision through the creation of alternative opportunities.
Scarcity value of the recreation resource.	This factor recognises there are considerable geographic imbalances in the supply of recreation opportunities, and where a resource is in short supply then less compromise may be feasible. As examples, some parts of the country are very poorly endowed with accessible open water space.
Recognition of the recreation opportunities spectrum (ROS).	The recreation opportunities spectrum is a basic principle of recreation planning that provision should be made for people's recreation needs along a range which provides for gregarious, active and some noisy recreations at one end of the scale, to opportunities for the enjoyment of solitude and quiet enjoyment at low densities of participation. This ensures high quality provision for small numbers of people at one end of the spectrum as important as providing for the many at the other end.

### Opportunities for Mitigation

See Sections C.9, and D.7 of the Handbook

22. Developments need not just create effects on recreation resources, on the practice of recreations, or on the potential for the future needs of a community. Opportunities may arise from new developments, either directly as a consequence of new access being created, through the opportunity to manage or plan for better recreation provision. In some cases recreation itself may be having effects on natural resources which are not managed effectively, or too sensitive to bear increased use, in cases where accessibility is enhanced. The nature of mitigation will have to be tailored to resolving or compensating for the predicted adverse effects described earlier, but some general issues to consider are summarised in Table 6 below.

**Appendix 5 Table 6:  
Mitigation Measures for Outdoor Access and Recreation**

Measure	Commentary
Realignment of access	This can be a simple and very acceptable measure, provided that major diversion of use is not proposed. Excessive diversion may lead to non-compliance or be inadequate to serve certain interests, especially the disadvantaged and disabled, or simply may be too distant for visitors' real needs.
Compensatory provision	Best acceptance of alternative provision will arise where the overall benefits are perceived by the visiting public to outweigh the losses, particularly if both access and accessibility are enhanced.
Reduction of the intensity, frequency or timing of the effects.	Mitigation of this kind is always potentially acceptable, provided that the amelioration is realistic, can be guaranteed and is not in due course overtaken by a greater intensity of use at the development site, and provided that the adverse effects are not wholly incompatible with the nature of recreational use and its setting, in which case, limitations will probably not be effective.
Enhanced management provision for the recreational use of the area or site.	Likely to provide beneficial mitigation, especially where recreation management was absent or weakly provided for, and perhaps even a cause of adverse effects itself on natural resources. However, new management regimes in any area where recreation is a significant use of land should be the subject of consultation with recreational interests, especially where the development itself is a matter of controversy as a result of its projected effects on the enjoyment of the natural heritage.

# Appendix 6: Effects on the Marine Environment

## Introduction

This Appendix explains in more detail the issues likely to arise in the EIA process in respect of the marine environment. Although the situation is improving, compared to terrestrial interests, there are few published EIA techniques or good practice methods relating specifically to marine impact assessment (see list of references below). Marine issues have often been overlooked in published Environmental Statements and, unless a European Marine Site was involved, competent authorities may also have overlooked potential impacts on the marine environment. The introduction of the Marine (Scotland) Act 2010 and the growth in offshore renewables development is changing this but there are still occasions when consideration of these impacts may be absent or inadequate at any stage in the EIA process and one of the aims of this Appendix is to remedy such deficiencies.

The EIA process described in the main text of this Handbook is entirely relevant and applicable to impact assessment on the marine environment. Equally, marine issues should be an integral consideration at every step in the process. This Appendix:

- (a) sets out the importance of marine considerations in EIA;
- (b) summarises the designations relating to marine areas and their conservation objectives relevant to the EIA process;
- (c) identifies the main or typical threats to the marine environment, i.e. the main potential impacts, and project types particularly relevant to the marine environment; and
- (d) provides general advice on assessing the significance of impacts on the marine environment.

## References

Reference is made here to the following:

- A. SARF, Environmental Impact Assessment Practical Guidelines Toolkit For Marine Fish Farming at: <http://www.sarf.org.uk/Project%20Final%20Reports/SARF024%20-%20Final%20Reports%20and%20Templates/EIA%20Guidelines%20FINAL+%20Templates.pdf>
- B. SNH, November 2011, The siting and design of aquaculture in the landscape: visual and landscape considerations, SNH at: <http://www.snh.org.uk/pdfs/publications/heritagemanagement/marineaquaculture.pdf>
- C. Marine Biological Association of the UK, Marine Life Information Network (MarLIN), ongoing website at: <http://www.marlin.ac.uk>
- D. Campbell, J.A. 1993, Guidelines for assessing marine aggregate extraction. MAFF Laboratory Leaflet Number 73, Directorate of Fisheries Research Lowestoft, 1993 ISSN 0143 8018 at: <http://www.cefas.co.uk/Publications/lableaflets/lableaflet73.pdf>
- E. University of Liverpool, Centre for Marine and Coastal Studies Environmental Research and Consultancy 2001, Assessment of the effects of noise and vibration from offshore windfarms on marine life, at: <http://www.berr.gov.uk/files/file20261.pdf>
- F. CIEEM 2010, Guidelines for Ecological Impact Assessment in Britain and Ireland: Marine and Coastal, at: <http://www.cieem.net/ecia-guidelines-marine->
- G. A voluntary system of using templates for the assessment of the effects of marine fish farming was introduced in 2008, it is found under the title of EIA Template for Screening and Scoping for Marine Pen Fish Farming at: <http://www.sarf.org.uk/cms-assets/documents/29275-6854.eia-temp-screen-scoping-050608-n2.doc>

- H. The Scottish Government has published a draft Marine Scotland Licensing and Consents Manual Covering Marine Renewables and Offshore Wind Energy Development (October 2012) which includes guidance on the EIA process although the manual has yet to be finalised.  
<http://www.scotland.gov.uk/Resource/0040/00405806.pdf>

### Importance of Marine Considerations in EIA

1. Marine considerations are an essential element of the EIA process and any significant impacts on marine features and sites must be included in an Environmental Statement.
2. Annex III of the EIA Directive, and Schedules in all the EIA regulations require that an Environmental Statement must include “a description of the aspects of the environment likely to be significantly affected by the development including in particular ..... fauna, flora, ..... water, air, climatic factors, ..... landscape ..... and the interrelationship between the above factors ....” These include the marine environment.
3. Schedules in the EIA regulations also specify that an Environmental Statement may include: “A description of the likely significant effects of the development on the environment, which should cover the direct effects and any indirect, secondary, cumulative, short, medium and long term, permanent and temporary, positive and negative effects of the development resulting from:
  - (a) the existence of the development;
  - (b) the use of natural resources;
  - (c) the emission of pollutants, the creation of nuisances and the elimination of waste”.
4. The Regulations provide competent authorities with the power to require the above information to be submitted, having regard in particular to current knowledge and methods of assessment, where it is reasonably required to give proper consideration to the likely environmental effects of the proposed development.
5. Thus, all marine interests can and should be included in an Environmental Statement and throughout the EIA process wherever the effects of a proposal are likely to be significant, whether or not the area affected is designated.

### Marine Site Designations Relevant to EIA

6. The potential effects of a project on marine interests will usually depend on two main considerations:
  - (a) the type of marine interest; and
  - (b) the type of project, including its nature, scale, location, duration, etc.
7. Impact assessment therefore needs to take account of the differing issues and conservation objectives for marine sites. Table 1, below, summarises the natural heritage designations relevant to marine areas.

**Appendix 6 Table 1:  
Marine Site Designations Relevant to EIA**

Designation	Interest / purpose of designation
Marine Nature Reserve (MNR)	Conservation and study of marine flora or fauna or geological or physiographical features.
Marine Protected Areas (MPAs)	To be designated by the Scottish Ministers under section 67 of the Marine (Scotland) Act 2010, there are 3 categories of MPAs; nature conservation MPAs, demonstration and research MPAs and historic MPAs. An area may be designated as a nature conservation MPA where the Scottish Ministers consider it desirable to do so for conserving flora or fauna or for conserving marine habitats (or types of such habitat) features of geological or geomorphological interest. An area may be designated as a demonstration and research MPA if the Scottish Ministers consider it desirable to do so for demonstration of sustainable methods of marine management or exploitation or research into such matters. An area may be designated as an historic MPA if the Scottish Ministers consider it desirable to do so for preserving a marine historic asset of national importance which is, or which they are satisfied may be, located in the area.
European Marine Site (Marine SPAs and Marine SACs)	Comprise those parts of Special Protection Areas (SPAs) under the EC Birds Directive and Special Areas of Conservation (SACs) under the EC Habitats Directive that lie below Highest Astronomic Tide (HAT). The interests for which the sites are designated are, in the case of SPAs, the bird species listed in Annex 1 of the Birds Directive and the assemblage of species and, in the case of SACs, the habitats and species listed in Annexes I and II of the Habitats Directive respectively (and also giving added protection to species listed in Annexes IV and V) that are specified in the citation for the classification / designation. European Marine Sites are subject to the protection and management provisions of the Habitats Regulations 1994.
Sites of Special Scientific Interest (SSSI) with marine features.	The protection and management of sites which, in the opinion of SNH, are of special scientific interest by reason of their flora or fauna or geological or physiographical features. SSSI will normally extend down to Mean Low Water Mark Ordinary Spring Tides (MLWMOST) but the interests may extend beyond this level down to Lowest Astronomic Tide (LAT) or to sub-tidal areas.
Marine Consultation Areas	A non-statutory designation intended to assist in the protection and conservation of marine areas which are of high conservation value but not otherwise designated.
National Scenic Areas	Designated by the Scottish Ministers to conserve the natural beauty and amenity of some of the finest landscapes in Scotland, several of which include coastal areas and some include extensive areas of sea as well as land.

## Types of Impact

8. All likely significant effects on marine interests should be assessed. Projects could affect the ecology, biology, geology, geomorphology, visual (both landscapes and seascapes), cultural and amenity value or accessibility of the marine environment. For example, projects can have:

Direct effects: such as:

- (a) Land take with consequent loss of habitat from intertidal or subtidal areas; or
- (b) Severance or fragmentation of areas e.g. by the construction of barriers or causeways; or
- (c) Burial of marine flora and fauna by deposits on the sea bed; or
- (d) Loss of marine flora or fauna and disturbance to habitats caused by extraction of material from the sea bed; or
- (e) Visual intrusion caused by conspicuous and uncharacteristic structures detracting from visual amenity; or
- (f) Loss of small jetties or quays which facilitate quiet recreational enjoyment of coastal areas; or
- (g) Noise disturbance to birds e.g. from land based industrial activity or from increased use of powered boats; or
- (h) Noise disturbance to marine mammals as a result of oil and gas seismic surveys; or

- (i) Vibration disturbance to fish and marine mammals e.g. from blasting or drilling operations; or

Indirect effects: such as

- (j) Changes in tidal prisms or sediment budgets in natural systems caused by a one-off “capital” dredge or frequent maintenance dredging; or
- (k) Interruption or other changes to natural coastal processes, e.g. by coast protection works; or
- (l) Changes in sediment erosion or deposition caused by increased navigation;
- (m) Pollution from discharges or diffuse or accidental runoff from various project types;
- (n) Biological impacts from disease transfer, alien species etc. from various project types, or
- (o) Increased disturbance to marine flora and fauna caused by increased levels of recreational diving / sub-aqua activities.

- 9. In the marine environment it is particularly important to consider cumulative impacts. One discharge to the sea, or one small physical change to coastal processes may be acceptable on its own, but in combination with the effects of other projects could comprise a significant adverse effect.
- 10. The relative paucity of information about some aspects of the marine environment may also mean that the precautionary principle may need to be invoked more often in marine EIA cases (see [Section F.1](#) of the Handbook).

### **Project Types Particularly Relevant to Marine Conservation**

- 11. Almost any project type that may be subject to the EIA procedures could potentially affect marine interests. However, experience indicates that particular project types frequently have significant marine implications and frequently raise specific issues in the EIA process. These are summarised in Table 2. It should also be appreciated that the different life stages of a project may have different effects on the marine resource, these different life stages are described in the Handbook, in Figure 3.

**Appendix 6 Table 2:  
Projects Frequently Resulting in Significant Marine Impacts**

Designation	Marine Natural Heritage interests most likely to be potentially affected*
Marine dredging for mineral extraction (construction and maintenance)	Water quality, flora, fauna, marine habitats, geological features and natural coastal and maritime systems and processes including sediment drift, erosion and accretion.
Marine dredging for navigation	
Deposit of dredgings at sea or on the coast	As above plus potential landscape and visual amenity and access to the coast.
Waste management and disposal of waste at sea	Water quality, flora and fauna, marine habitats, natural coastal and maritime systems and processes.
Aqueous and other liquid discharges to the sea including waste water treatment work discharges	Water quality, (including temperature) flora and fauna, marine habitats, natural coastal and maritime systems and processes, visual amenity.
Gaseous emissions likely to be deposited on the marine environment	Water quality, flora and fauna, marine habitats.
Radio-active discharges into the sea	Water quality, flora and fauna, marine habitats.
Laying cables, pipes etc. on or in the sea bed	Flora, fauna, marine habitats, geological features and natural coastal and maritime systems and processes including sediment drift, erosion and accretion.
Land claim from the sea	Water quality, flora, fauna, marine habitats, geological features and natural coastal and maritime systems and processes including sediment drift, erosion and accretion; landscape and visual amenity and access to the coast.
Coast Protection Schemes	
Flood Prevention Schemes	
Transport infrastructure including bridges and causeways	Flora, fauna, marine habitats, geological features and natural coastal and maritime systems and processes including sediment drift, erosion and accretion; landscape and visual amenity and access to the coast
Coastal Development e.g. marinas and built developments	Water quality, flora, fauna, marine habitats, geological features and natural coastal and maritime systems and processes including sediment drift, erosion and accretion; landscape and visual amenity and access to the coast.
Energy projects including oil, gas, marine wind turbine generators, wave energy generators and tidal barrages	Water quality, flora, fauna, marine habitats, geological features and natural coastal and maritime systems and processes including sediment drift, erosion and accretion; landscape and visual amenity and access to the coast.
Marine aquaculture	Water quality, flora, fauna, marine habitats, natural maritime systems and processes; landscape and visual amenity and access to the coast.

\*NB The interests listed here are intended to be illustrative of the range and nature of natural heritage interests potentially affected. The Table should not be used as a “checklist” and all projects should be carefully scoped for all potentially significant effects on the natural heritage and wider environment where appropriate.

## Assessing Significance of Marine Impacts

12. Where effects on key marine resources are likely to occur, specialist advice should be used. SNH will usually take the view that marine impacts are likely to be significant where, either alone or in combination with other projects, the project would lead to:
  - (a) adverse or beneficial impacts on the systems or processes or features for which a site had been notified or designated;
  - (b) permanent or long-term change that would affect the integrity and long-term sustainable management of natural coastal processes and other natural marine systems;
  - (c) permanent or long-term change to the quality of the natural heritage locally or regionally as a result of the destruction or enhancement or widespread or extensive degradation or improvement of marine habitats, species populations or features.
  
13. It is particularly important that these considerations are not confined to the on-site, direct impacts of a proposal but applied equally to off-site, indirect effects such as outfalls or coast protection or flood defence works or developments leading to changes in surface water run-off to rivers/estuaries, etc.



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