

Iceland Wind farms, Landscapes & Wild(erness) Areas Workshop – 12TH August 2019

Landscape character, values and wind farms in Scotland

Simon Brooks

Strategic Planning Manager - Scottish Natural Heritage



Scottish Natural Heritage
Dualchas Nàdair na h-Alba

Scotland's experience:

- 1. Landscape character**
- 2. Landscape values**
- 3. Landscape and wind farms**



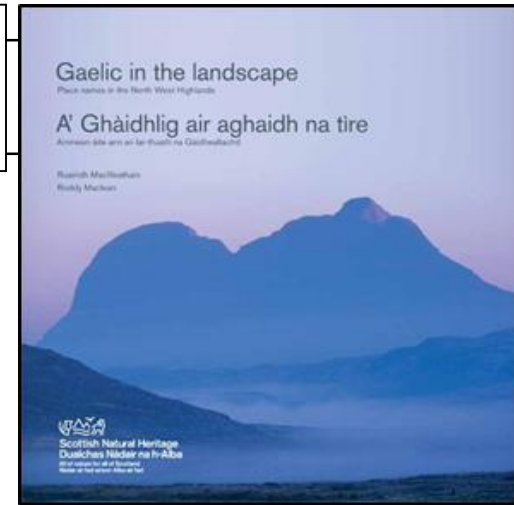
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nature.scot

SNH landscape remit

- Part of our remit in the Natural Heritage Act - “***natural beauty & amenity***”
- Statutory adviser to Government and Local Authorities on landscape issues
- Statutory consultee on landscape matters in a wide range of legislation
- National expertise in landscape issues, guidance and policy.



European Landscape Convention



“An area, as perceived by people, whose **character** is the result of the action and interaction of natural and/or human factors.”

SNH broad landscape aims

To safeguard and enhance for all of Scotland's landscapes their

- **distinct identity,**
- **diverse character,**
- **special qualities.**

To ensure tomorrow's landscapes

- **contribute positively to people's environments**
- **are at least as attractive and valued as today's.**



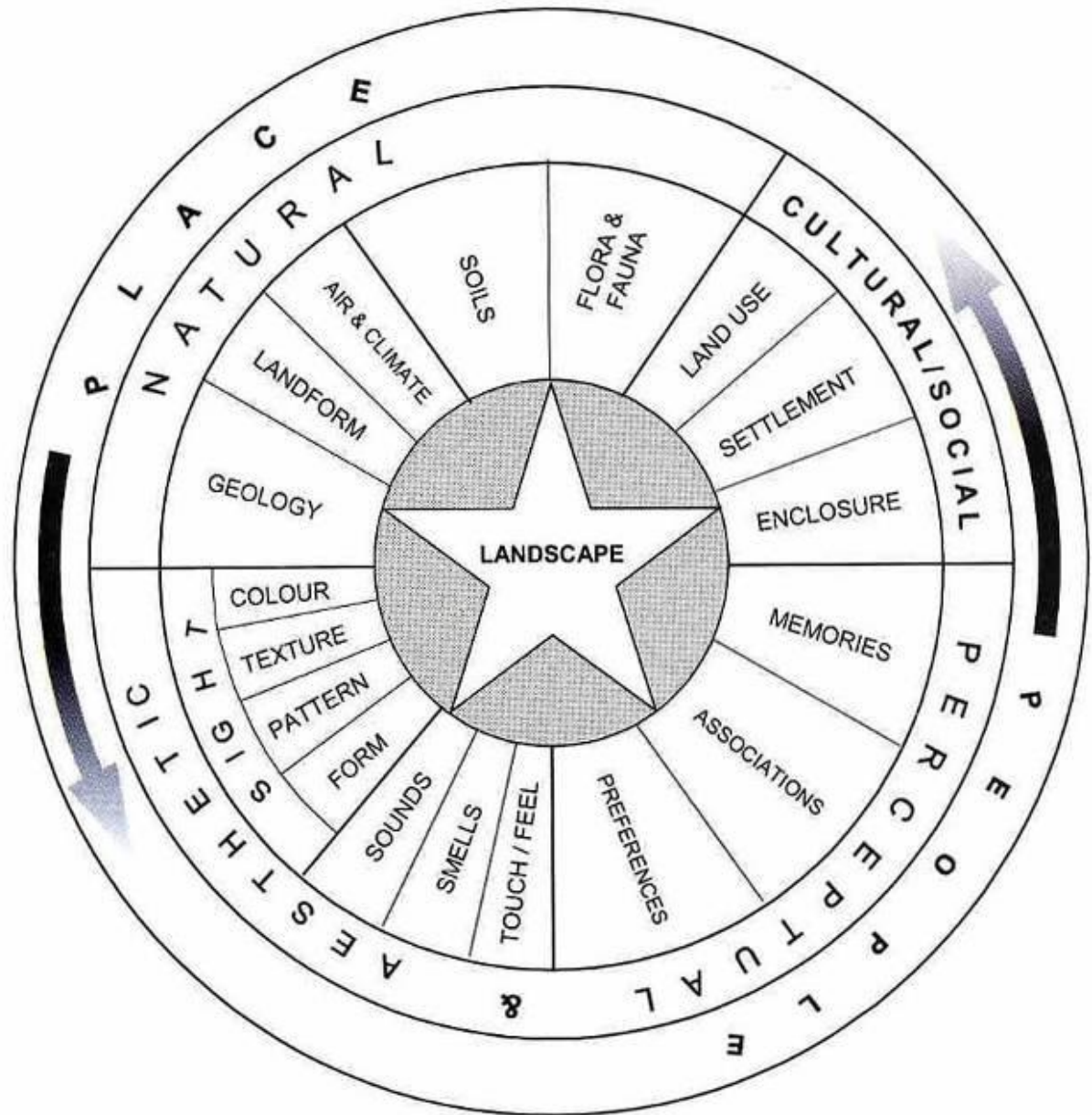
Principles of SNH's approach

- **Scotland's landscapes are a shared responsibility**
- **all Scotland's landscapes deserve attention**
- **Scotland's landscapes will continue to change**
- **Scotland's landscapes deserve greater care**



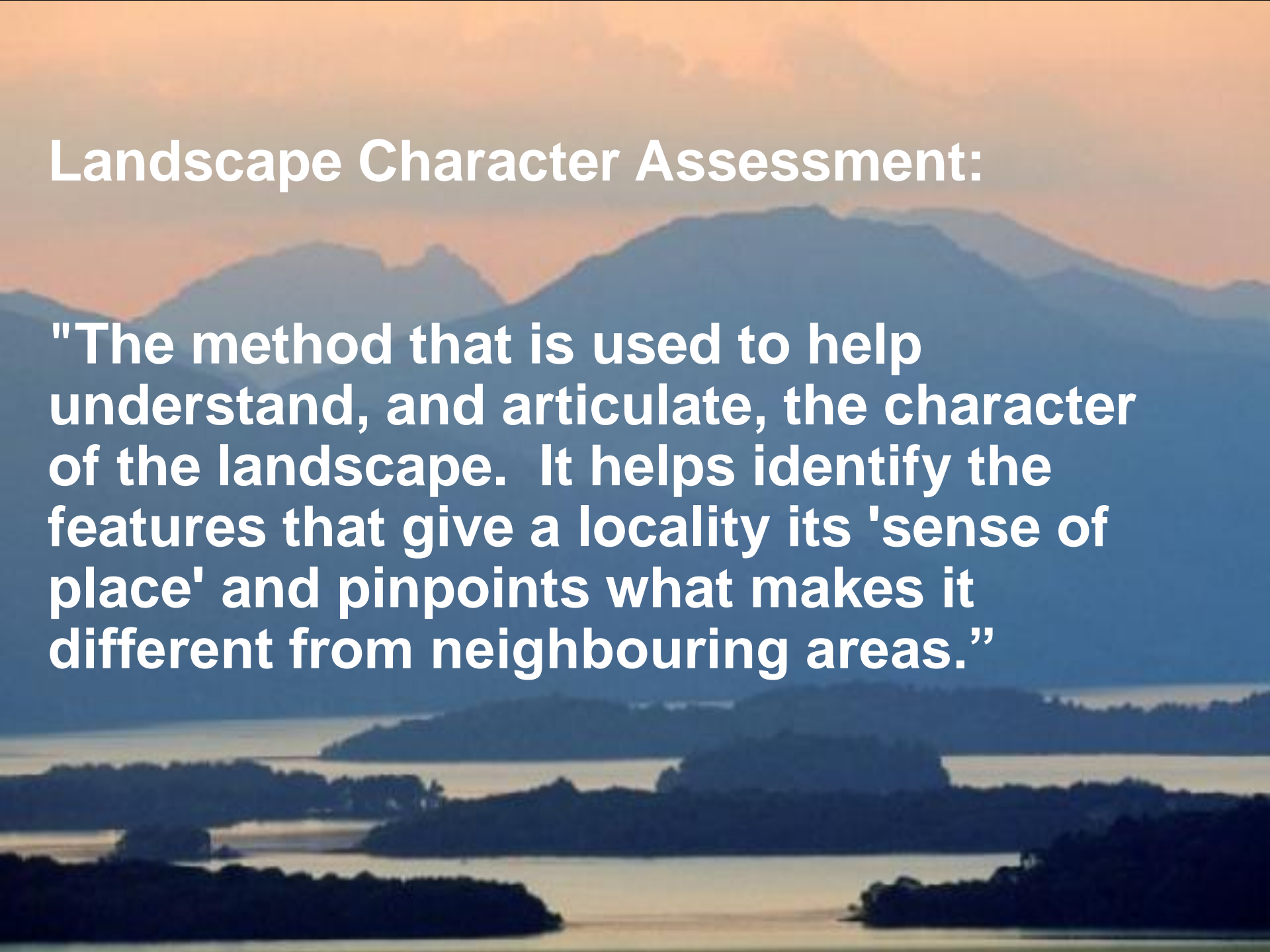
1) Landscape Character

Landscape is more than the appearance of the land.



Landscape Character Assessment:

"The method that is used to help understand, and articulate, the character of the landscape. It helps identify the features that give a locality its 'sense of place' and pinpoints what makes it different from neighbouring areas."

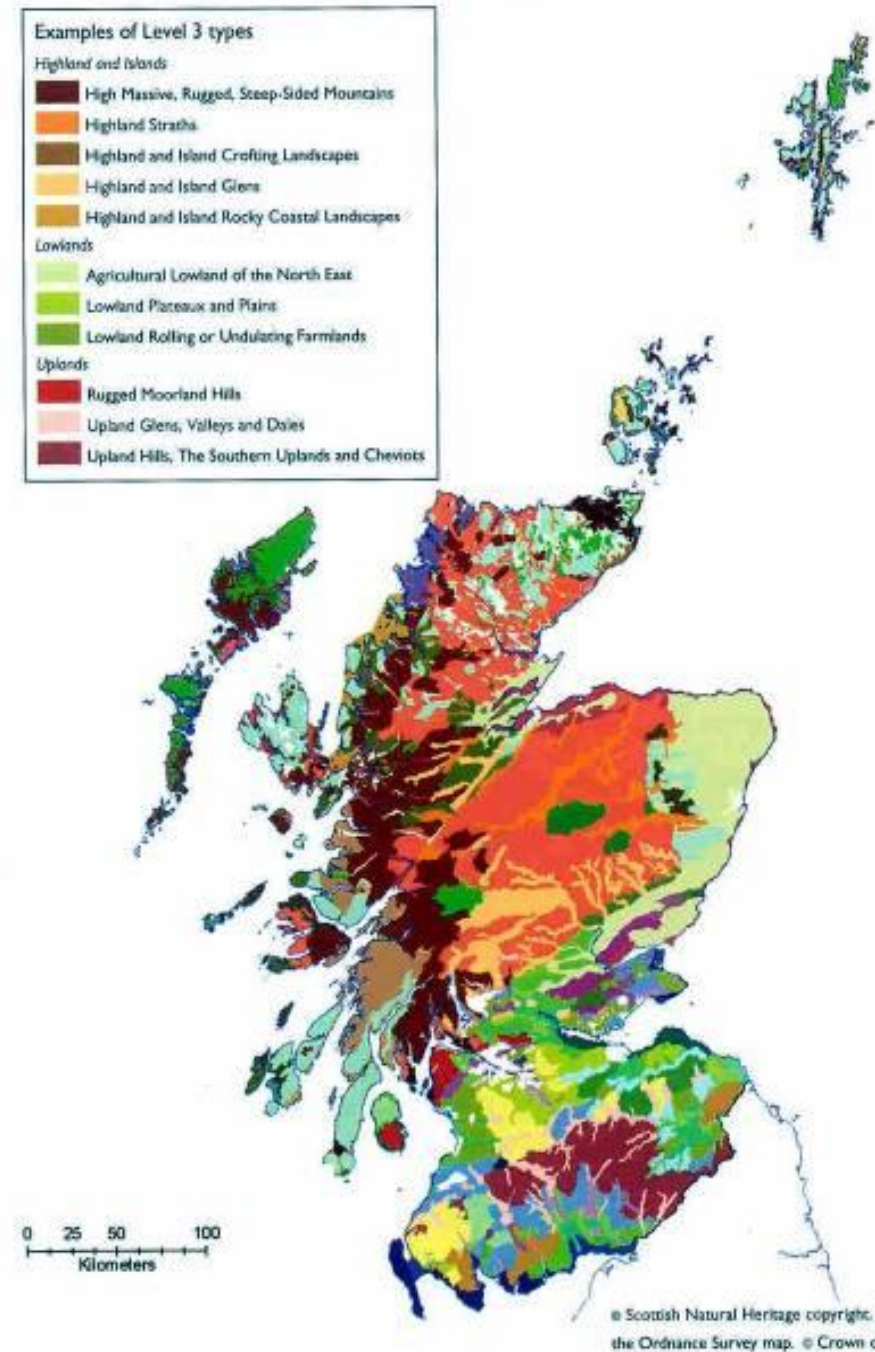


Scotland's LCAs

- 29 studies, 1:50,000 scale
- undertaken in co-operation with local authorities, Forestry Commission etc.
- similar methodology
- 366 Character Types summarised into 52 at broadest level



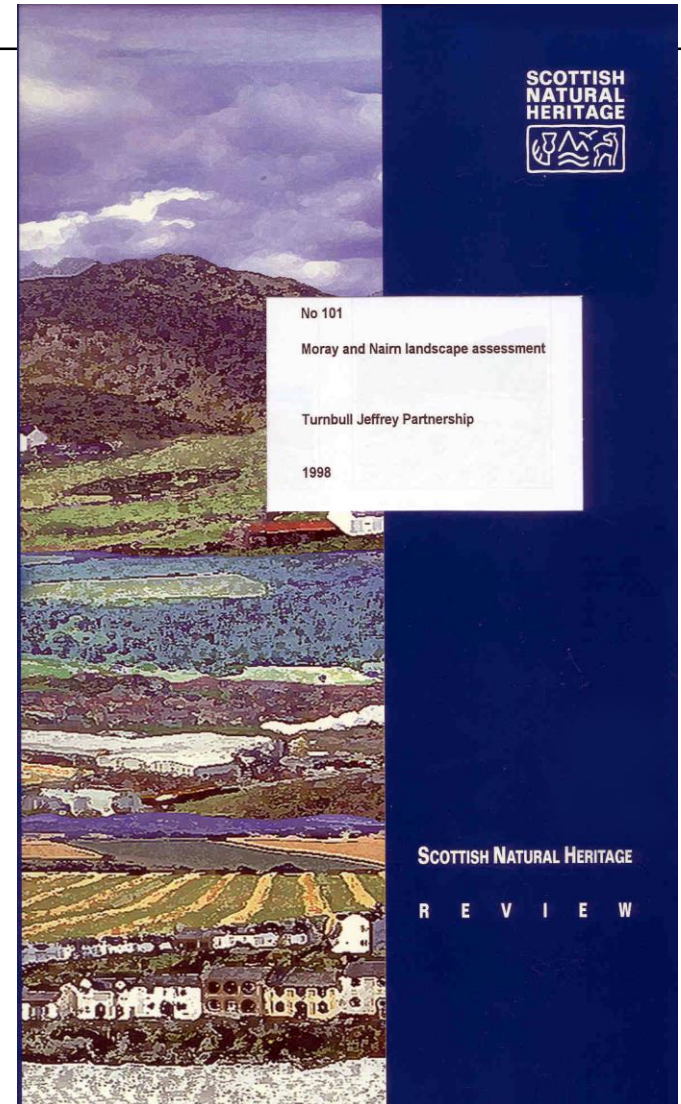
Figure 6.4: Scotland - Level 3 landscape character types





Application of Scotland's LCAs

- an objective resource in describing landscape & landscape change.
- provides the baseline information for EIA
- helps in development management casework responses
- basis for further work e.g. capacity and sensitivity studies
- embedded in planning system



Scottish Planning Policy

- the planning system should “*facilitate positive change while maintaining and enhancing distinctive landscape character*” (para 194).
- “*Development management should take account of ... landscape character... Developers should seek to minimise adverse impacts through careful planning and design ...*” (para 202).



Scottish Planning Policy



LCA methodology

define scope

desk study

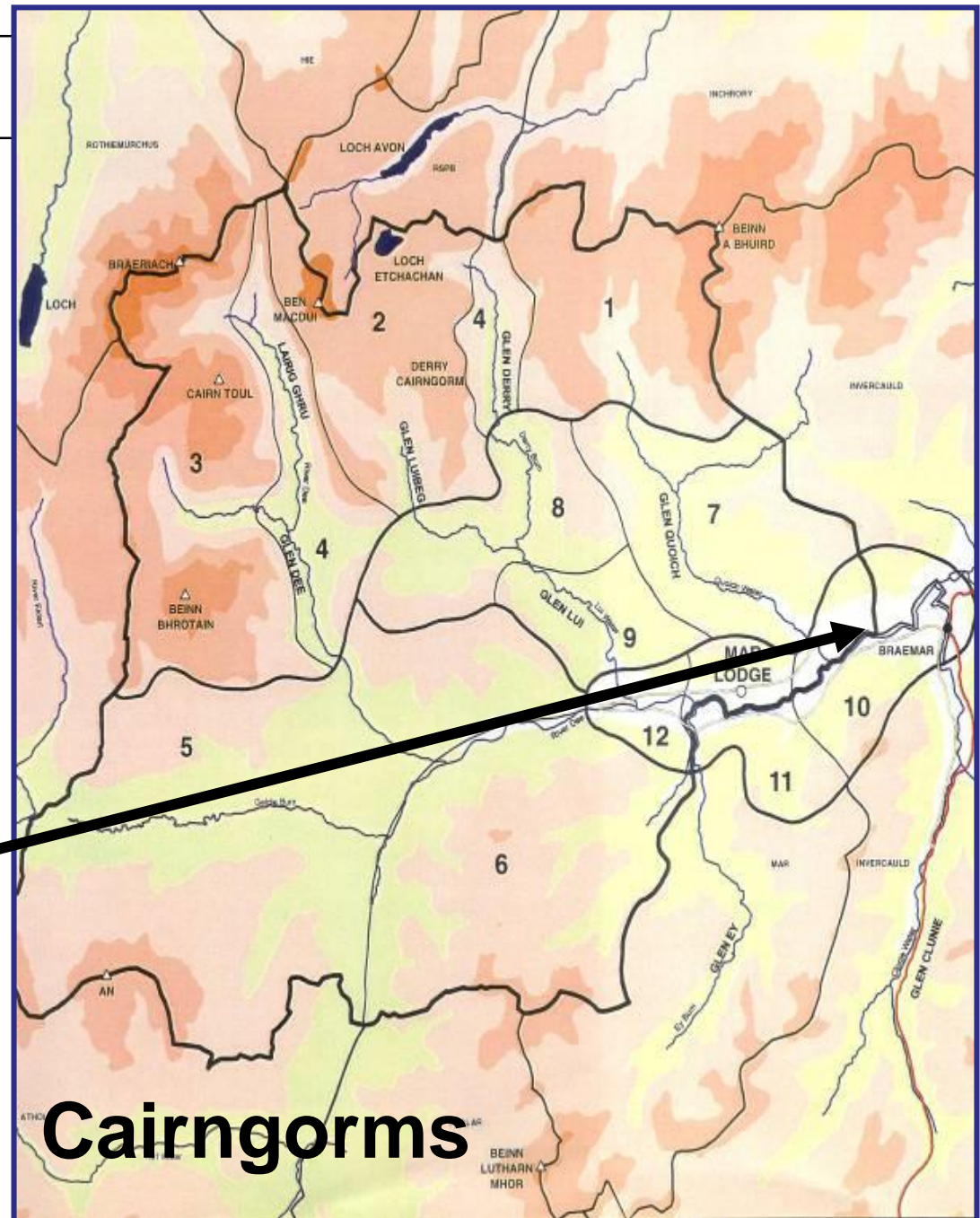
field survey

classification & description

production of guidelines / recommendations



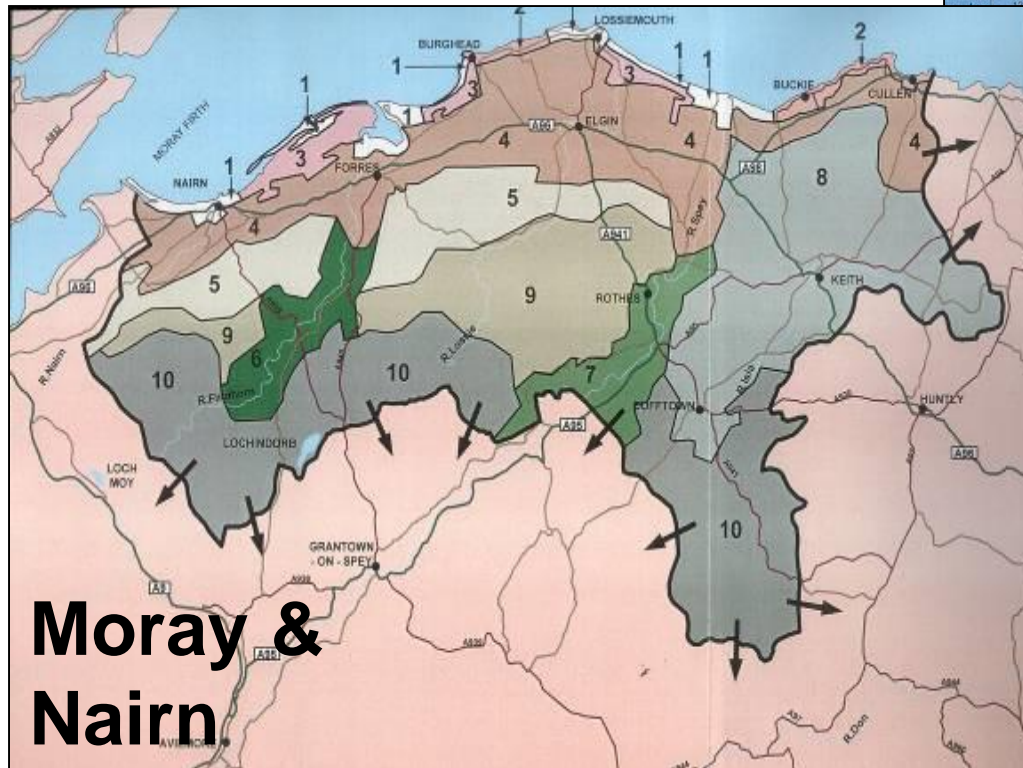
Individual areas identified, described & mapped



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Key characteristics noted

**Forces for change
identified and guidance
provided**



Orkney



other uses for LCA



- basis for village design statements
- to inform design
- basis for monitoring landscape change
- basis for sensitivity / capacity studies
- inform townscape characterisation
- links to historic and cultural landscape studies



Capacity Studies

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A Guide to Commissioning a Landscape Capacity Study

1

Toolkit

Introduction Page 1

Using this toolkit
What is a landscape capacity study?

Before You Start Page 5

Clarifying purpose
Deciding your objectives

Commissioning the Study Page 7

Preparing a brief
Identifying a steering group
Establishing realistic timescales
Getting the best from procurement
Agreeing the content of the brief

Managing the Study Page 13

Project management tips
Pilot studies
Report format

Topic Guidance Page 18

Landscape sensitivity assessments
Assessing 'capacity'
Design guidance
Cumulative assessment

Resources Page 24

Using this toolkit

Please take a little time to read these instructions as it will ensure you make the most of this interactive PDF document.

The Toolkit contains guidance and tools.

The guidance is organised in sections. At the start of each section is an interactive index, as seen on the left of this page. This allows you to see where you are in the Guidance using colour coding, and allows you to jump to any other section easily should you wish.

The tools include checklists, briefing papers and existing study examples. Tools are grouped by development theme; wind, settlement and aquaculture; so that they can be printed as a batch, in either landscape or portrait format. Detailed printing instructions are in the resources section.

At the end of each briefing paper etc, are links that will return you to the place you linked from, or take you to the print version. As these are intended for printing they do not have the links embedded so you need to set up the Back button in the Reader (right).

The blue header text (A Guide to...) on every page links back to this page, acting as a Home button.

Setting up your Reader

Although as an interactive PDF document the Toolkit has navigation features to make it easy to move from section to section, it can not be used like a website. It is designed to be viewed with a document reader program, such as Acrobat Reader or Preview.

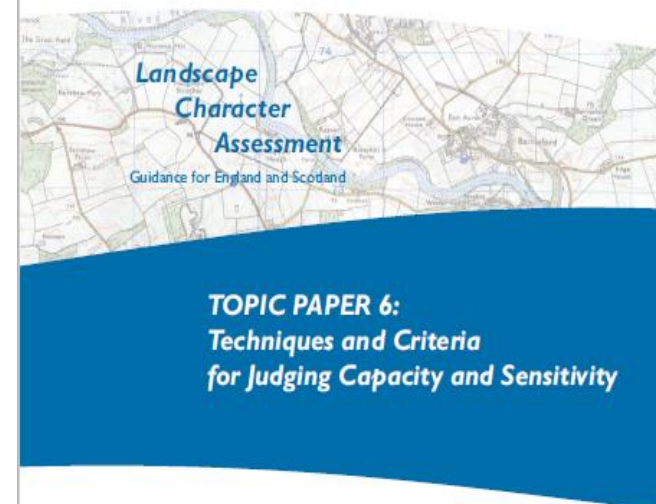
These programs come with 'Previous/Next' buttons to move from one page to the next page in the sequence of the document, but to make it easier to resume reading at a page when you have clicked a link to another section in the document, such as the Tools or Scenarios, you will need to activate two additional buttons in the reader toolbar.

In Acrobat Reader these buttons are the 'Previous View/Next View' buttons in the 'Tools>Customize Toolbar' menu.

In Preview on a Mac these buttons are the 'Back/Forward' buttons in the 'View>Customize Toolbar' menu.

It can not be over emphasised how much easier using this document will be if you enable these additional buttons!

A plain text version of the content of the Toolkit can be found [here](#).



An exploration of current thinking about landscape sensitivity and landscape capacity, to stimulate debate and encourage the development of common approaches.

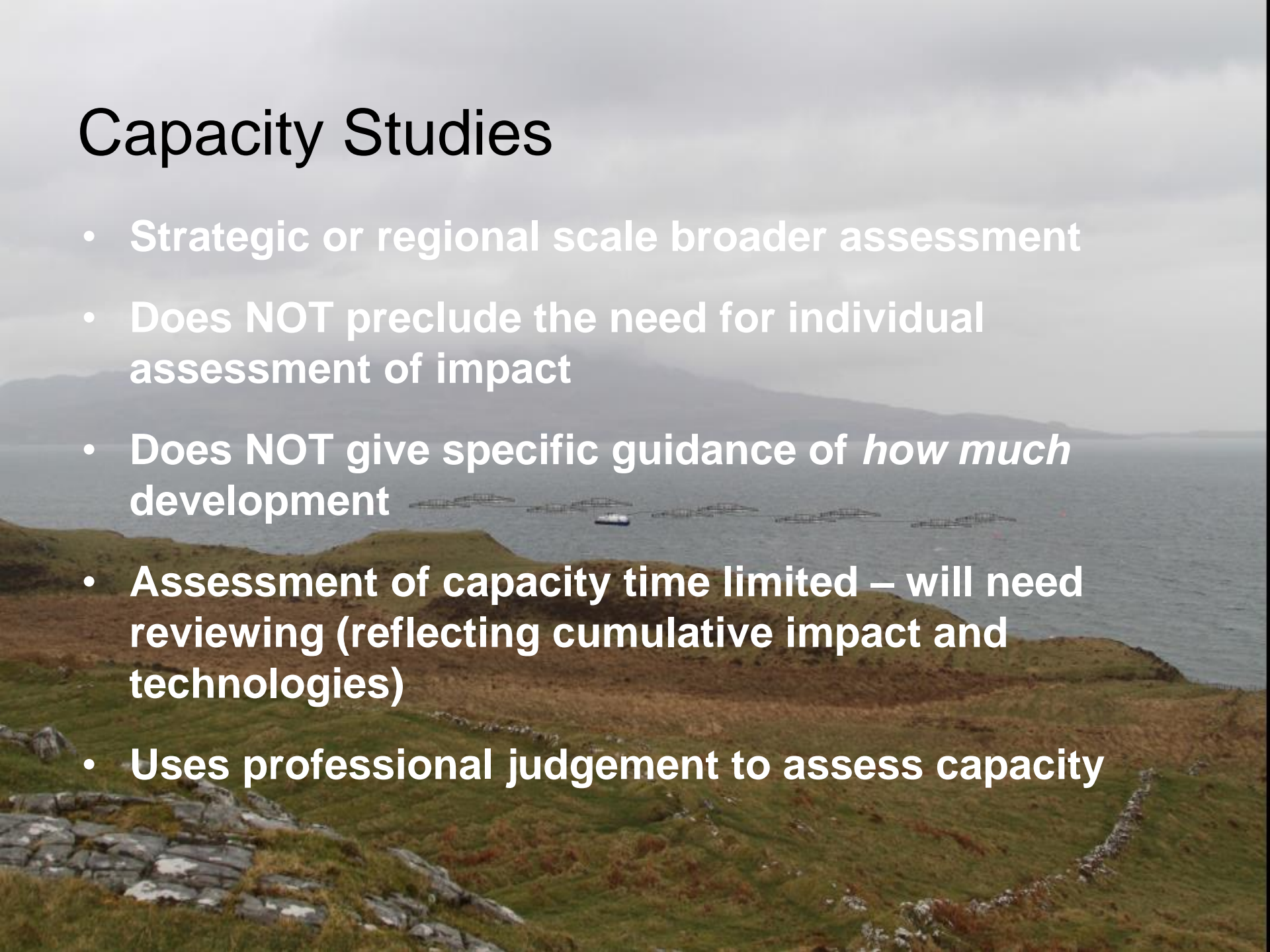


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Capacity Studies

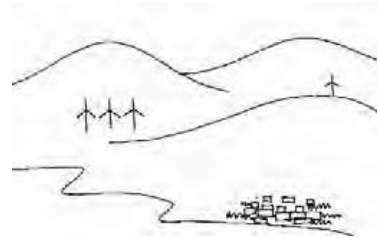
- Strategic or regional scale broader assessment
- Does NOT preclude the need for individual assessment of impact
- Does NOT give specific guidance of *how much* development
- Assessment of capacity time limited – will need reviewing (reflecting cumulative impact and technologies)
- Uses professional judgement to assess capacity



Managing change – what is the landscape objective?

PROTECTION

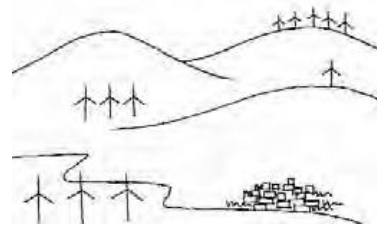
to maintain integrity and quality of landscape (eg. NSA)



Separate isolated features

ACCOMMODATION

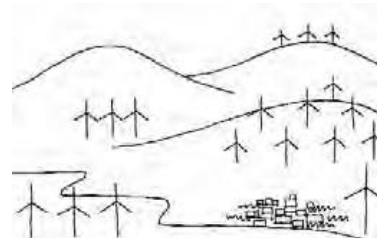
to maintain key characteristics of landscape character
(ie. a landscape *with* wind turbines)



Windfarms become characteristic of landscape

CHANGE

to accept landscape change
(ie. a landscape *of* wind turbines)



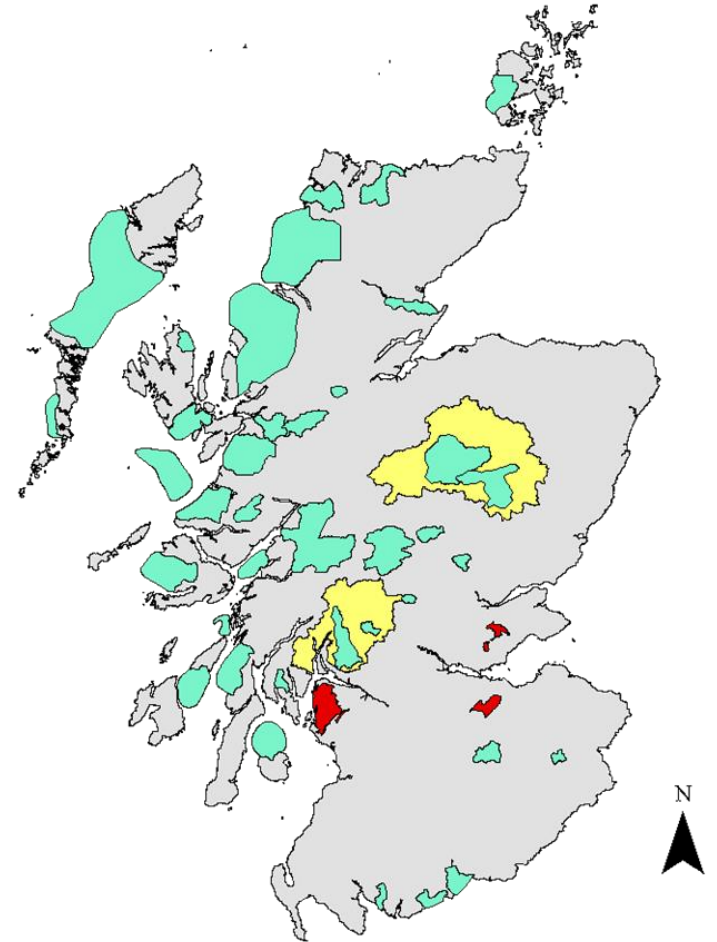
Windfarms are dominant characteristic – ‘windfarm landscape’





2) Landscape values and designation

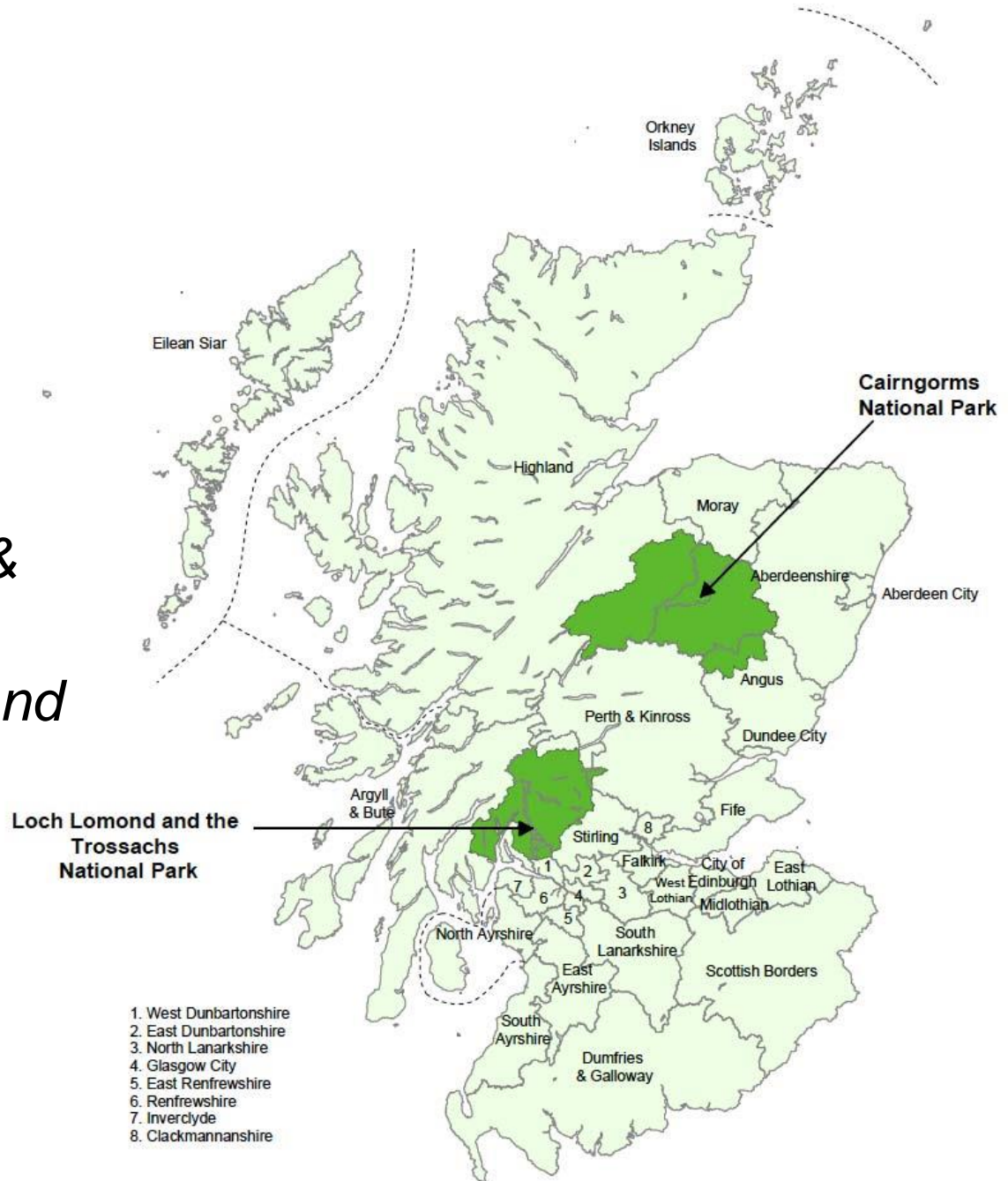
- 4 key domestic landscape 'designations'
- informed by landscape character
- influence is through policy



National Parks

Statutory requirements:

- *outstanding national importance*
- *distinctive character & coherent identity*
- *meet special needs and deliver aims*





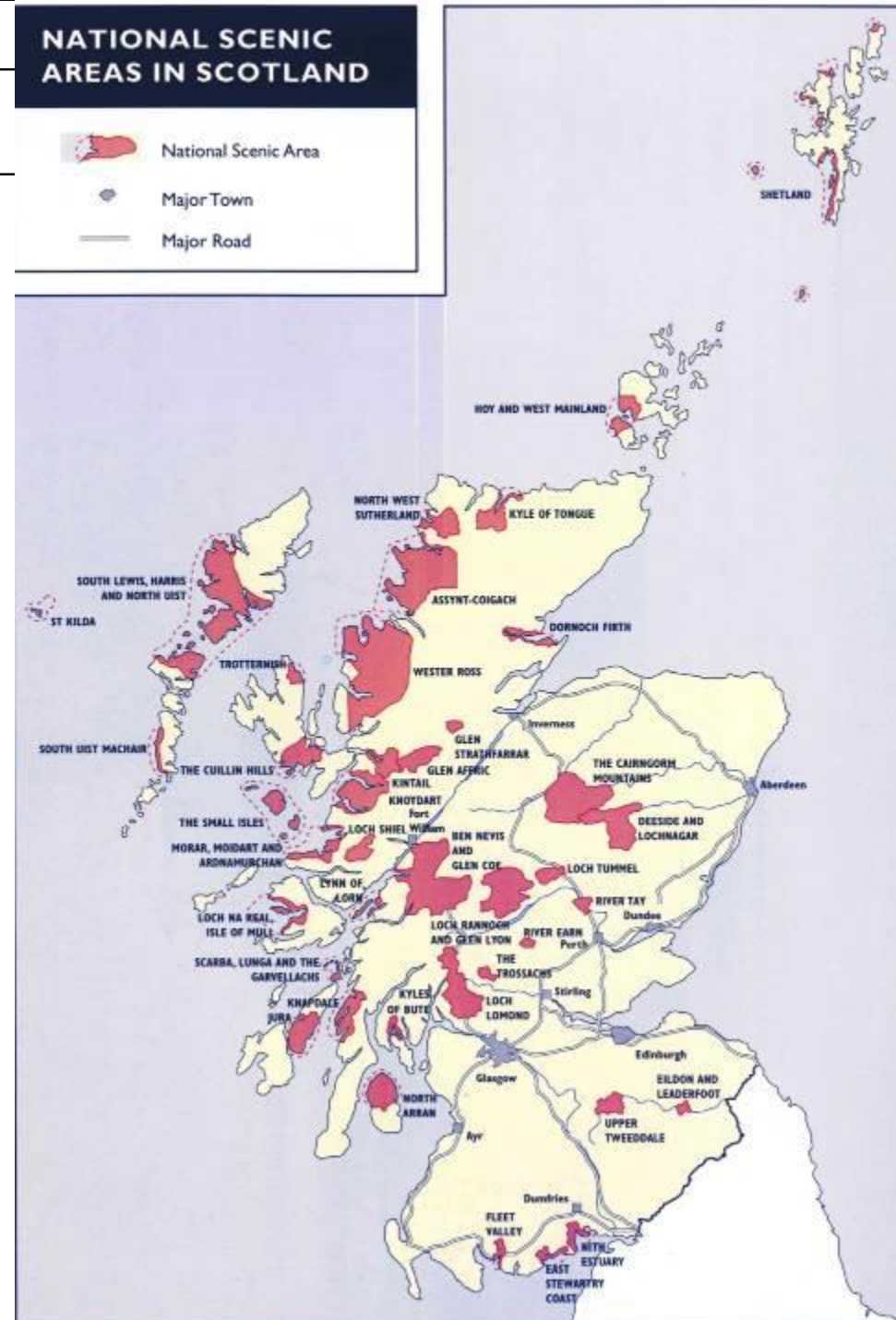
National Park Aims

- To conserve and enhance the natural and cultural heritage
- To promote the sustainable use of natural resources
- To promote understanding and enjoyment of the Park's special qualities
- To promote the sustainable social and economic development of the Park's communities



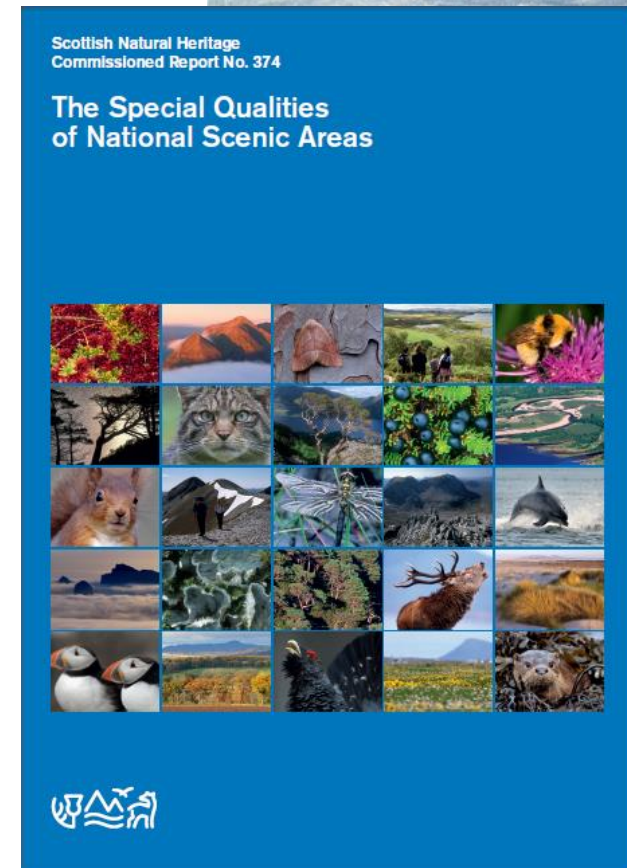
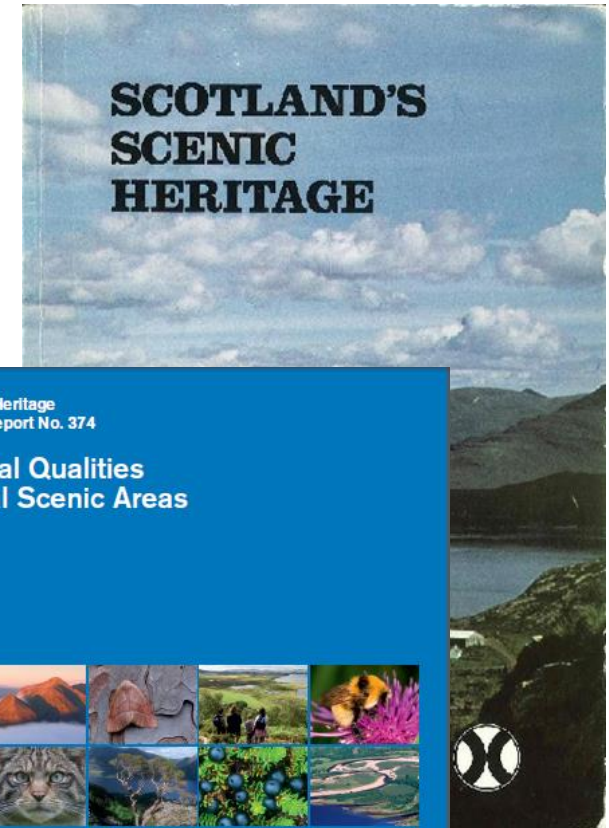
National Scenic Areas

- Must be '*of outstanding scenic value in a national context*'
- requires that '*special attention*' is paid to safeguarding their character



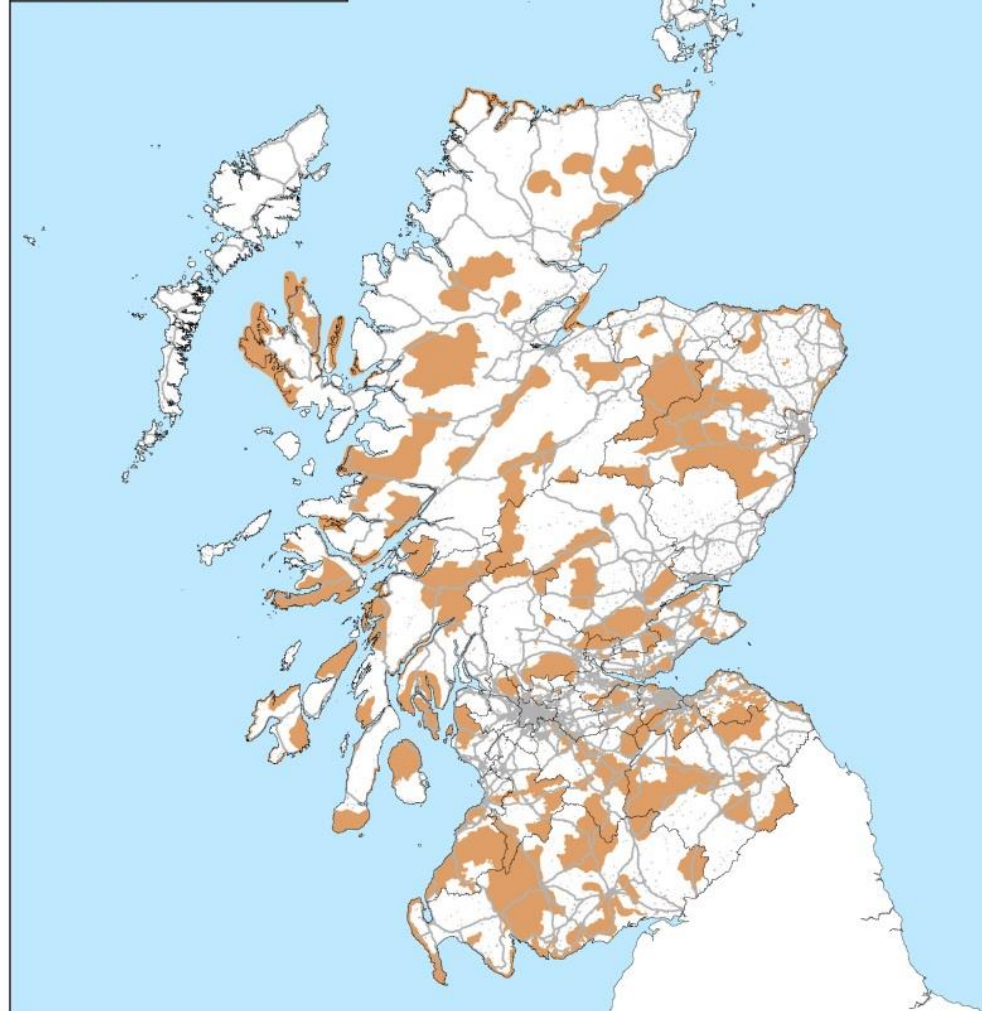
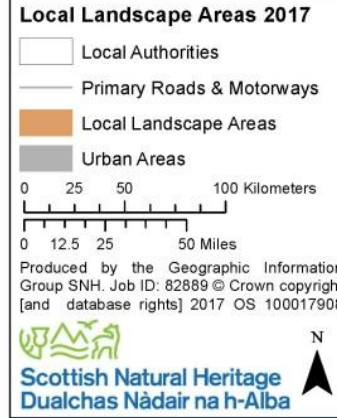
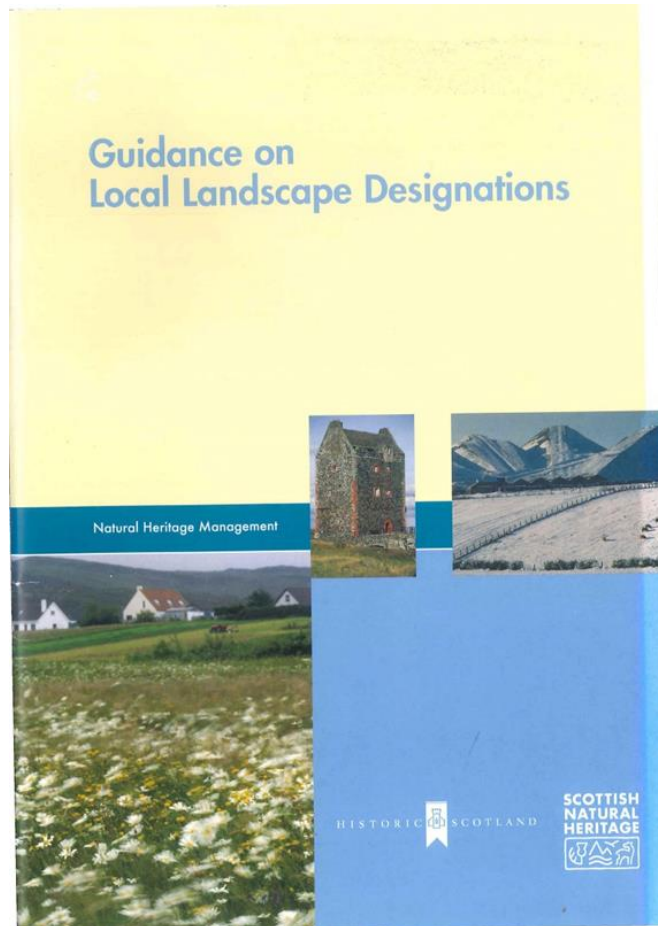
NSA Special Qualities

- the characteristics that individually or combined, give rise to an area's outstanding scenery



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Local Landscape Areas

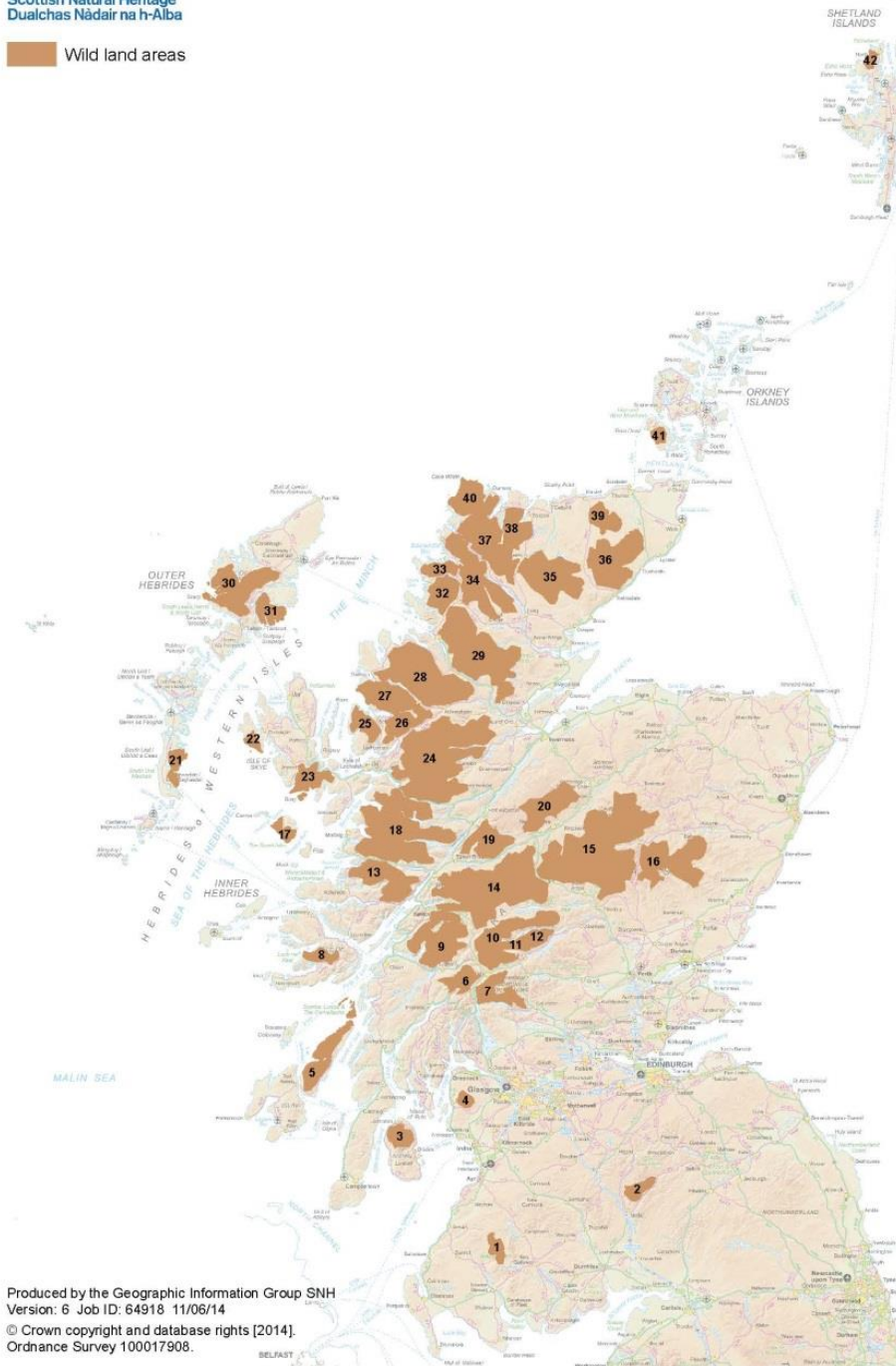


Wild Land Areas

- considered a '*nationally important asset*'
- but not a designation



Wild land areas



3) Landscape & Wind farms



Landform

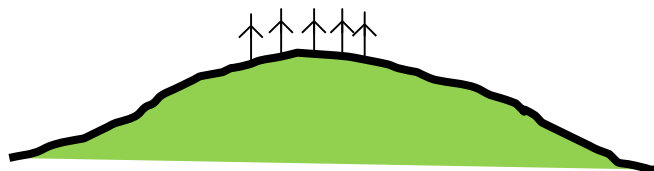
Key Design Principles

- Turbines should be located to respond positively to the underlying landform
- The flattest section of landform should be selected to ensure turbines will be viewed consistently - i.e. on the skyline or back-clothed
- Simple landforms with few distinctive features make it easiest to design a simple well sited wind farm.



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Simple / Uniform



Smooth Hill



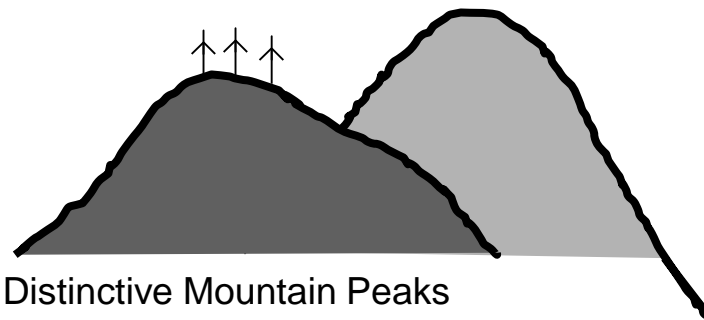
Flat Plateau



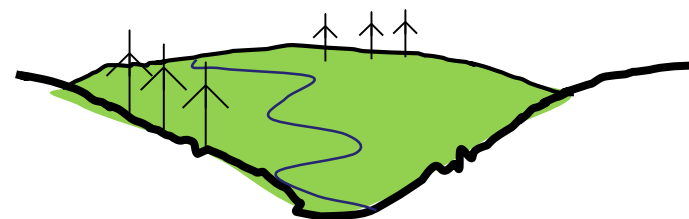
Gently Rolling Hills



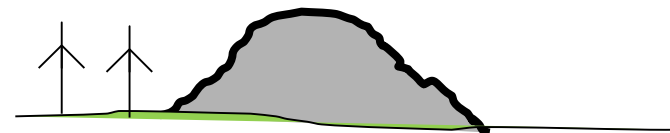
Complex / Distinctive



Distinctive Mountain Peaks



River valley



Distinctive rocky outcrop

Landscape Scale

Key Design Principles

Finding an appropriate scale in keeping with that of the landscape. The wind farm should be of:

- **Minor vertical scale** in relation to key features – typically less than a third
- **Minor horizontal scale** in relation to key features
- **Minor size** compared to other key features and foci; or separated so that comparison doesn't occur

In general the larger the scale of the landscape the greater the ability to relate to larger development typologies



Landscape scale

Large Scale
(expansive, vast, exposed)

The number and size of
turbines should reflect the
underlying scale of the
landscape

Small Scale
(intimate, contained, enclosed)



Pattern and Focal Points

Key Design Principles

- Turbines should be located to respond positively to the underlying pattern
- Notice should be taken of focal points and hierarchy/scale of landscape components.
- Separation distance and height of turbines can be used to work within this framework without detracting from these key features

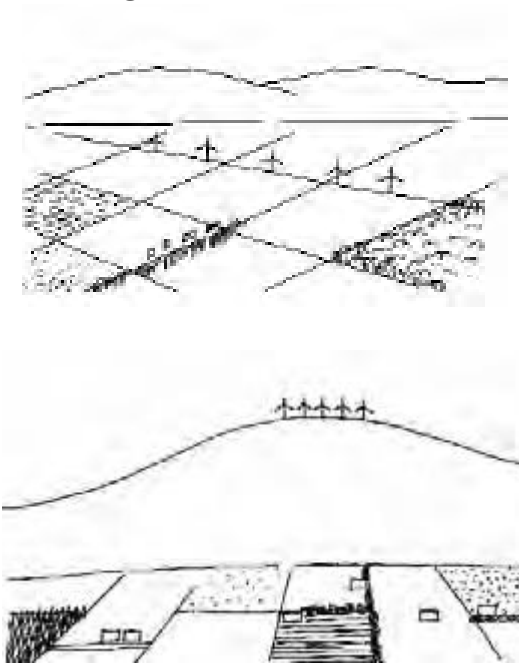
Lowland settings often have more complex landscape patterns



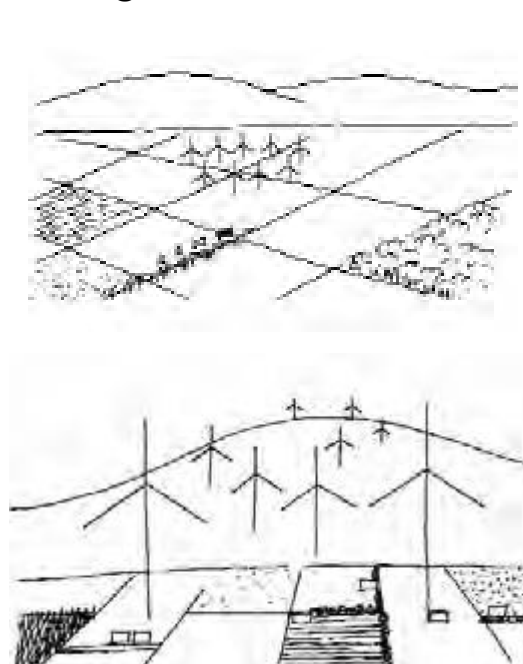
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Where there is a strong underlying pattern turbines should relate to this.

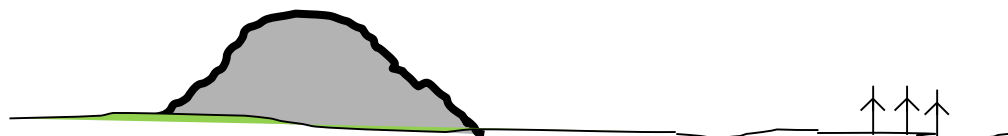
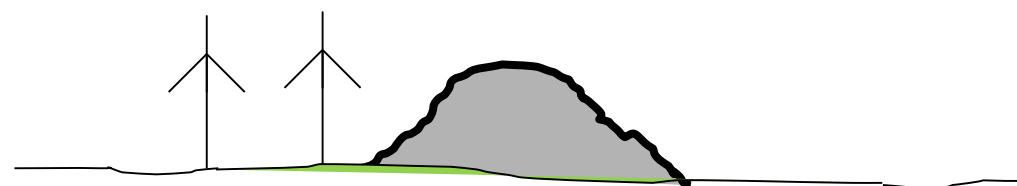
Design relates to pattern



Design does not relate to pattern



Focal features can be man made or natural



Pattern and Settlement

Key Design Principles

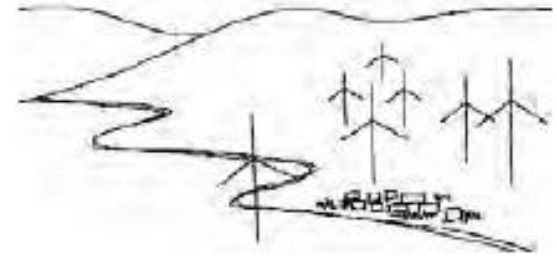
- Turbines should not dominate or negatively affect settlements.
- The aim should be to minimise the sense of imposition upon buildings and more intimate places
- The scale of the turbines must relate to local landscape features and buildings.



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Settlements and buildings within a landscape tend to be sensitive to the development of a windfarm for three main reasons:

- by being places from which a people will view a wind farm with a key quality of shelter/ refuge
- because buildings act as a size indicator in views that may emphasize the much greater scale of wind turbines in comparison
- because the settlement itself often forms a focal feature / landscape pattern to which a development would need to relate.



Landscape Context

Key Design Principles

- **Expansiveness and size** - e.g. turbines will be less likely to influence other landscapes if they are located in the core of a large tract of moorland.
- **Containment** - e.g. elevated plateau tend to be difficult to see from the bottom of a valley, hills can provide enclosure
- **Avoid** impacting on focal points, complex or smaller landscapes that neighbour or cross the landscape that the turbines are located in – hence why larger areas of simple landscapes are best.



Perceptual qualities




These qualities relate to what we perceive in the landscape, for example absence of man-made structures, active management or people/facilities can contribute to the perception of naturalness, wildness or tranquility.

Evidence of past inhabitants, i.e. standing stones can contribute to a feeling of timelessness. All of these qualities can be sensitive to wind turbines' clearly man made appearance, size, scale and sound.



Some key lessons

- 
- Plan led approach - location, location, location
 - Guidance – provide certainty, clarity & consistency
 - Early engagement – takes time
 - Robust & established assessment processes
 - Good design makes a difference
 - Key risks are during construction
 - Good progress towards targets, choice in system

Spurningum ?

