

Planning for Microgeneration in Historic Homes

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Microgeneration in the Historic Environment

- The Historic Environment
- Climate Change
- Our approach to micro-regeneration
- Key Considerations
- Case studies
- Further work





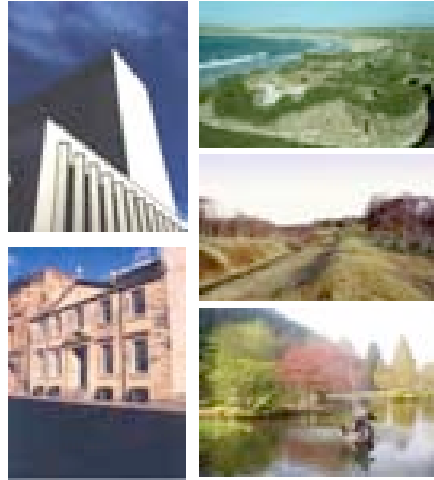
Scotland's Historic Environment

"Our whole environment, whether rural or urban, on land or under water, has a historic dimension that contributes to its quality and character. It has been shaped by human and natural processes over thousands of years. This is most obvious in our built heritage: ancient monuments; archaeological sites and landscapes; historic buildings; townscapes; parks; gardens and designed landscapes; and our marine heritage, for example in the form of historic shipwrecks or underwater landscapes once dry land."

SHEP 2008.

Scotland's Historic Environment

- 5 World Heritage Sites
- 46,600 Listed Buildings
- 7,785 Scheduled Ancient Monuments
- 630 Conservation Areas
- 346 sites in Inventory of Gardens and Designed Landscapes
- ..and the rest!



•But problem here as in England that majority of focus and attention is on visitor-related properties

•Traditional view – tourism and education

•Need to take a far more ambitious view of historic environment

•**Statistics give some idea of historic environment – roll through statistics**

•Include WHS Edinburgh, New Lanark, Prehistoric Orkney, St Kilda

•Don't mention cultural landscapes

•These statistics show that HE can contribute much more widely but

•Difficult to calculate and quantify

Climate Change and Our Historic Environment

- Erosion
- Wetting & Drying
- Flooding
- Integrity



•While not so much change to our own properties in care and those of bodies such as NTS, HHA, local authorities

•Significant levels of change reflected in consents process we see

•Local authority archaeological advisors will see more than HS

•**Roll through statistics**

Managing Our Historic Environment

The Policy Framework

- SHEP/SPP23
- Memorandum of Guidance
- Development Plans
- Supplementary Guidance



Managing Our Historic Environment

SHEP/SPP23:

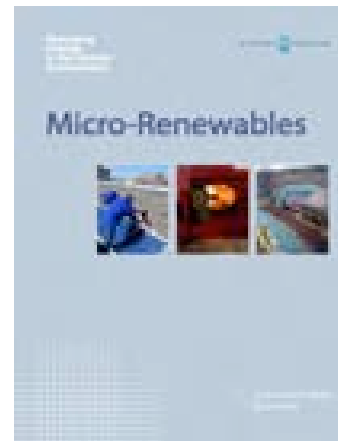
- Sets the broader policy framework
- Emphasises the importance of the historic environment



Managing Our Historic Environment

Technical Guidance

- Provides advice
- Principles based
- New guidance notes in preparation



Managing Change

Guiding Principles

- Informed Decision Making
- Sustainable Development
- Balanced Assessment
- Finding solutions



Microgeneration: HS Approach

- How can we help?
- Lots can be done without consent – check first
- The answer's usually yes
- The historic environment is important too



Wider issues to consider

- Place making
- Education and understanding
- Skills and training
- Renewable materials
- Authenticity



Micro-renewable power

- Solar panels
- Wind turbines
- Hydro-electricity
- Heat exchangers e.g. GS
Pumps
- Bio-fuels
- Insulation



Solar Panels

- Water or Electricity
- Reversible
- Discrete
- Light touch installation
- Technical fixes



Wind-turbines

- Reversible
- Discrete - sometimes!
- Pay back time?
- Effectiveness?



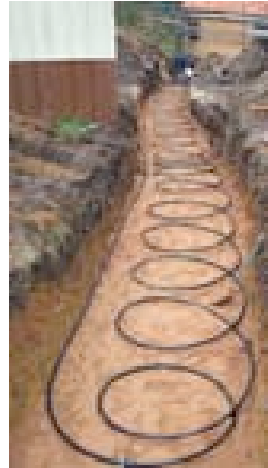
Hydro-Electricity

- Larger buildings & estates
- Longer pay back
- Effectiveness
- Good fit in some cases



Heat Exchange

- Discrete - usually
- Effective
- Lots can be done without consent – check first.
- Light touch installation



Insulation

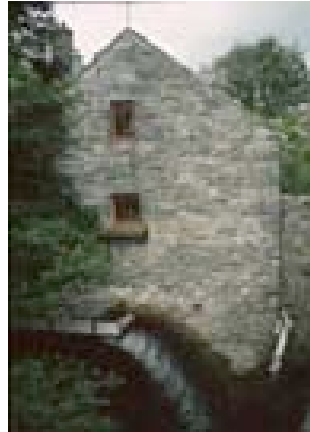
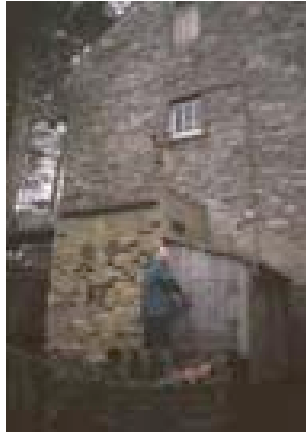
- Technical understanding
- Protection of character
- Lots can be done without consent – check first.
- Technical fixes



Exemplar Projects: Castlemilk Stables, Glasgow



Exemplar Projects: Dods Mill, Scottish Borders



Exemplar Projects: Lauriston Place, Edinburgh



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