cradle to cradle islands

Shetland Islands, Scotland, UK

Sustainable Spinning mill

"The Cradle to Cradle Islands project has been a useful resource for our island communities in that they are able to access skills and expertise which enables them to move their sustainable plans ahead."

Elizabeth Johnson
Business Development Manager

WATER

ENERGY

MATERIALS

Project description on the island
A local community development organisation is developing a sustainable wool processing mill to process local wool sources into sustainable and high value end products. The development is to incorporate a number of renewable and energy saving technologies to allow wool processing to be done in a low carbon way. It is also proposed to integrate rain water collection to significantly reduce demands for piped mains water, further improving sustainability and reducing the carbon footprint of the process.

Targets of the project
1 The project aims to develop a sustainable wool processing mill to process local sheep's wool into end products. The project will redevelop an old industrial building to utilise a local natural product that is at present removed for disposal.
2 The spinning mill is to be developed with integrated renewable energy technologies (solar water heating and wind power) to enable wool processing to be complete in a low carbon manor.

Innovation and value of the project
The project will integrate wind turbine technology and solar water heating technology to significantly reduce the demands for carbon based energies. This will not only reduce the operating overheads of the proposed woollen mill, but will also significantly improve the sustainability of its end use products. In addition the project will see the re-development of a disused commercial building and the deployment of the first integration of rain water recycling into a local community owned commercial project.

Start and end date of the project
May 2010 - Summer 2012

Project leader
Unst Partnership
Gordon Thomson
tel.nr: +44 (0)19 577 116 95
e-mail: gordonthomson880@btinternet.com

Partners
- Shetland Island Council
- Waste Innovation
- COPE

November 2011

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fact sheet

European Union
The European Regional Development Fund
EPEA
The Interreg IVB North Sea Region Programme
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Investing in the future by working together for a sustainable and competitive region