

## Shetland Islands, Scotland, UK

### Valhalla Brewery

#### Project description on the island

One of the local communities is home to the Shetland's only brewery. This brewery is relocating and wants to become more sustainable and needed to have a secure energy and water supply to protect the processes that they need to undertake on a daily basis. We have spent the last few months giving support to the brewery and have had input into an initial study into the energy requirements of the site and proposed solutions. Advice and help for this project is ongoing. It is hoped that a renewable solution can be installed before the end of the year 2011.

#### Start and end date of the project

May 2010 - Summer 2012

#### Project leader

Valhalla Brewery  
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#### Targets of the project

The project aims to reduce energy costs for the brewery along with significantly reducing the associated CO<sub>2</sub> emissions. It is anticipated that 36.6T of CO<sub>2</sub> can be saved annually along with up to 87MWh of electrical energy. The project will also redevelop an abandoned military building for use as an advanced energy efficient brewery.

#### Innovation and value of the project

The project will integrate wind turbine technology and heat pump technology to significantly reduce the demands for carbon based energies. This will not only reduce the operating overheads of the brewery, but will also significantly improve the sustainability of its end use products. In addition the project will see the redevelopment of an abandoned military base to accommodate increased brewing capacity with greatly enhanced sustainability both in terms of water use and energy use.



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[WWW.C2CISLANDS.ORG](http://WWW.C2CISLANDS.ORG)  
[WWW.VALHALLABREWERY.CO.UK](http://WWW.VALHALLABREWERY.CO.UK)

*"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