

*'The islands in the 'Cradle to Cradle Islands' project will be a blueprint of what will be possible in the future'*

Michael Braungart,  
EPEA Hamburg



WATER



ENERGY



MATERIALS



### What is the Cradle to Cradle Islands (C2CI) project?

- C2CI is an Interreg IVB North Sea Region Project with 22 partners from six countries around the North Sea
- Leading vision: islands as innovation centers that implement sustainable and Cradle to Cradle® solutions
- Main goal: to develop innovative solutions in the field of energy, water and materials, using Cradle to Cradle® principles as a guide
- Project duration: from 1 January 2009 to Summer 2012
- Total budget: € 3.5 million (50% European funding, 50% cofinancing by partners).

# The Cradle to Cradle Islands project

An international and innovative project in the North Sea Region

## Who are members of the partnership?

- The transnational partnership consists of island communities, governments, research centres, knowledge institutions and companies in the North Sea Region. The Province of Fryslân, The Netherlands, is the initiator and leading partner.
- This results in a unique partnership that will tackle the joint problems on islands and come up with innovative Cradle to Cradle® solutions for energy, mobility, water and materials.



### How will we get there?

The project focuses on three themes: Energy (incl. mobility), Water and Materials. Depending on the local situation, on each island one or more of the following activities will be carried out under guidance of prof.dr. Han Brezet of the Delft University of Technology (activities Energy), ir. Heleen Sombekke of Wetsus Centre of Excellence for Sustainable Water Technology (activities Water) and prof.dr. Michael Braungart/EPEA (activities Materials).

### Activities Energy/mobility

- Investigate the use and feasibility of renewable energy sources like solar, wind, wave and tidal energy
- Apply the concept of 'blue energy' (producing electricity by mixing salt water and fresh water) for island environments
- Design and test innovative product services for island mobility, e.g. electric scooters, electric tuk-tuk and charging stations
- Optimize sustainable transport between and on the islands
- Design of an 'Eternal Island Holiday House' that is transportable, degradable, made of local materials and energy producing
- Link energy savings with the modernisation of housing and the use of renewable energy.

### Activities Water

- Innovative supply of drinking water by desalination of sea water
- Sanitation and separation of household water in several streams
- Purification and re-use of the effluent of waste water treatment plants
- Storage of rainwater underground during winter times to realize water supply in summer.

### Activities Materials

- Cradle to Cradle® sound solutions for local marinas and the 'Eternal Island Holiday House'.
- Local production with innovative materials, e.g. tourist products like custom tailored swim suits, toys for kids etc.
- Set up of an innovative Research Centre on Biopolymers to adapt polluting plastics into new in water dissolvable environmentally friendly products and to make use of local available resources like algae.

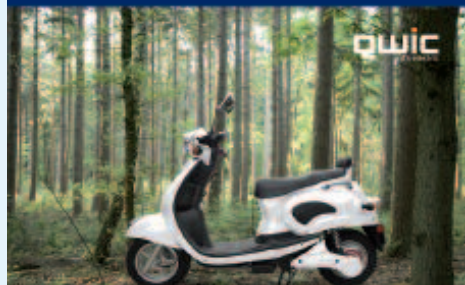
More information?  
See [www.c2cislands.org](http://www.c2cislands.org)



**WATER**



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**The current way** of thinking about the environment encourages us 'to reduce, reuse and recycle'. However, according to Michael Braungart and William McDonough, founders of the Cradle to Cradle®-concept, this leads only to a continuation of the traditional 'Cradle to Grave' production model that creates enormous amounts of waste and pollution. Therefore we should stop doing bad things 'less bad' and instead start doing the right things.

In the Cradle to Cradle®-concept waste equals food: products are designed in such a way that they do not pollute and are part of a biological cycle or a technical cycle. ([www.epea.com](http://www.epea.com))

### **Why an islands project?**

These islands are excellent locations for experiments with innovative solutions, because they have a lot in common:

- Large number of visitors in summer, who are attracted by the nature and beauty of the islands
- High demands on water, energy, transport and goods in the peak season
- The ambition to become independent and self supporting in energy and water
- High visibility of sustainable activities
- Being suitable places for education on innovation.

### **What do we want to achieve?**

By the end of the project the partnership wants to have achieved the following:

- Islands have become catalysts for new developments and testing grounds for innovative solutions
- A 'Cradle to Cradle® methodology' for islands has been developed
- Positive results of pilot projects in the field of energy, water and materials
- Incubator centres have been founded on the participating islands, aimed at further development and implementation
- Additional funding by investors or funds has been secured to implement the findings in the pilot projects
- Education among island inhabitants, tourists, children and young people
- Transnational network of governmental organisations, knowledge institutions, companies and other relevant stakeholders cooperating in clusters.



**// The Cradle to Cradle Islands project will show that it is possible to 'become native to this planet' with unique examples and inviting everyone to come and see, touch and participate, learn and progress.**





Samsø Energiakademi



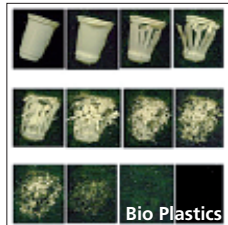
Home Energy



Urban mobility concept, Beella, TU Delft



Lise Chapman



Bio Plastics

### Fast Charging

AeroVironment PosiCharge

Eneco NRGspot

Mitsubishi iMIEV

# Participants in the Cradle to Cradle Islands project

## The islands:

- Municipality of Ameland, The Netherlands
- Municipality of Texel, The Netherlands
- Shetland Islands Council, UK
- Municipality of Spiekeroog, Germany
- Insel- und Halligkonferenz, Region Uthlande, Germany
- Samsø Energy Academy, Denmark
- Municipality of Norddjurs, Denmark
- Municipality of Tjörn, Sweden
- Municipality of Vågan, Norway
- REC - Runde Environmental Centre, Norway

## Other partners:

- Province of Fryslân, The Netherlands
- Delft University of Technology, The Netherlands
- Wetsus - Centre of Excellence for Sustainable Water Technology, The Netherlands
- EPEA Internationale Umweltforschung GmbH, Germany
- Vitens - water supply company, The Netherlands
- Wetterskip Fryslân, Frisian Water Authority, The Netherlands
- Zeeland University of Applied Sciences, The Netherlands
- PEC - Pure Energy Centre, UK
- IRRRI - International Resources and Recycling Institute, UK
- OOWV - Water Board, Germany
- Aalborg University (AAU), Denmark
- Lund University (IIIEE), Sweden

Do you want more information? Do you see possibilities to contribute to the project?

Please visit our website ([www.c2cislands.org](http://www.c2cislands.org)) or contact:

- mr. Hans van Meerendonk, project coordinator,  
e-mail [j.h.vanmeerendonk@fryslan.nl](mailto:j.h.vanmeerendonk@fryslan.nl), tel. +31 (0)58 292 54 02
- mr. Anne de Vries, project manager  
e-mail [a.j.devries@fryslan.nl](mailto:a.j.devries@fryslan.nl), tel. +31 (0)58 292 51 27
- mr. Albert Ruiter, financial controller  
e-mail [a.ruiter@fryslan.nl](mailto:a.ruiter@fryslan.nl), tel. +31 (0) 58 292 52 83
- mrs. Brigitte Feenstra, project officer  
e-mail [b.t.feenstra@fryslan.nl](mailto:b.t.feenstra@fryslan.nl), tel. +31 (0)58 292 51 32

European Union



The European Regional  
Development Fund



EPEA

The Interreg IVB  
North Sea Region  
Programme



provinsje fryslân  
provincie fryslân



Investing in the future by working together for a sustainable and competitive region