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www.itransferproject.eu

sustainable ferry travel

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Damen sustainable vessel design for Doeksen



Weserfähre Bremerhaven vessel

Developing sustainable design

The use of sustainable technologies is a fast paced and developing area of the maritime industry, which is helping deliver the demand for cleaner more efficient vessels.

Damen and Rederij Doeksen, Dutch ship builders and ferry operators, have collaborated to develop a vision for sustainable ferry design. Innovative design processes have targeted hull shape and materials as key features that will improve efficiency. Changes in fuel usage offer the greatest opportunities for improving fuel efficiency and emissions reduction. TESO will use this experience when developing their new vessel.

Delivering efficient operations

Weserfähre, who operate passenger and vehicle ferries on the River Weser, Germany, have explored new ways to reduce their fuel consumption to combat rising costs, and reduce emissions.

Real-time monitoring of fuel use when vessels are in use, coupled with sophisticated modelling and simulator training, have enabled Weserfähre to decrease fuel consumption by 5,000 litres, over two years between 2011 and 2013, with CO₂ emissions reduced by 640 metric tonnes.

Maid of the Forth will use this case study when reviewing their operations in Scotland.

iTransfer partners

Lead partner

1. Institute for Sustainability (UK)

Partners

2. AG Port of Oostende (Belgium)
3. Erlebnis Bremerhaven GmbH, Bremerhaven Touristik (Germany)
4. Damen Shipyards (The Netherlands)
5. Gravesham Borough Council (UK)
6. Kent County Council (UK)
7. Magistrat Bremerhaven (Germany)
8. Rederij Doeksen (The Netherlands)
9. SEStran (UK)
10. TESO(The Netherlands)
11. Weserfähre GmbH (Germany)

Sub partners to Erlebnis Bremerhaven GmbH, Bremerhaven Touristik

12. Helgoland (Germany)
13. Hal-över (Germany)

Sub partners to SEStran

14. Maid of the Forth (UK)
15. East Lothian Council (UK)

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16. University College London (UK)



The Interreg IVB
North Sea Region
Programme



European Regional
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Investing in your future

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



Design for sustainable TESO ferry

iTransfer - Innovative Transport Solutions for Fjords, Estuaries and Rivers Delivering innovative, sustainable and accessible passenger ferry solutions

iTransfer aims to make ferry transport more freely available and accessible, and to encourage more people to travel by water.

In areas in the North Sea Region (NSR) there are opportunities to replace existing vehicle routes with passenger ferries as a viable alternative. Ferry transport is sustainable, takes cars and lorries off the road, connects people between their jobs and homes, facilitates tourism and provides a lifeline to remote communities.

iTransfer will deliver innovative and sustainable solutions to develop green ferry technology, and create more efficient ferry operations. It aims to integrate ferry travel with other transport modes and improve accessibility throughout the region.

iTransfer objectives:

- Develop new ferry connections to improve accessibility and reduce road congestion
- Enhance efficiency of existing ferry operations through new technologies and training to reduce fuel consumption and emissions
- Develop sustainable designs for new vessels, applying innovative processes and technologies.

iTransfer is funded by the NSR programme, part of the EU Inter-regional (Interreg) initiative.

Activities already underway:

- Design, construction and implementation of an innovative passenger ferry landing facility allowing enhanced vessel operations in all tidal conditions and improved access for those with impaired mobility
- Testing feasibility for new passenger ferry service, that will cut commuting times and reduce road congestion
- Monitoring fuel use and training to improve ferry operations, reducing costs and emissions. Feasibility studies to improve fuel efficiency of ferries including the use of bio-diesel mixes and liquid natural gas (LNG)
- A range of workshops designed to formulate and share best practice relating to efficient ferry operation and integration of ferry services
- Sharing knowledge and experience to harmonise and streamline existing policy framework to overcome inefficiencies, disparities and disadvantages that affect ferry operations
- Applying knowledge and experience of improved sustainability of passenger vessels to crew boats and their commercial operations.

