

Innovative Feeder Vessel



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Innovative Feeder Design

- **1.** Innovative Feeder Vessel design
 - Design alternatives
 - Zero-emission investigation, including wind assisted propulsion
- 2. Feeder Vessel simulation and autonomy
 - Time-domain simulation model
 - Vessel autonomy, including shore control station





Mission Execution - Scenario Development





Pilot Demonstration

- Seakeeping and Manoeuvring Basin (SMB)
- Free sailing model of selected Feeder Vessel design
 - Propulsion
 - Seakeeping and added resistance
 - Autonomous operation
- Demonstration Day for Visitors





Innovative Feeder Vessel Design

Design alternatives

- Early innovative concepts/ideas for 3 different vessels
- Wind assisted alternative for 1 feeder design concept
- Basic hull form development for 3 feeder design concepts





Example of WA-design - Ecoliner from DNA



Innovative Feeder Vessel Design

Question: What is the emmision level that is expected to design for in the year 2030?

EU targets in the Green Deal

- At least 40% cuts in greenhouse gas emissions
- At least 32% share for renewable energy
- At least 32.5% improvement in energy efficiency





Zero-emission investigation, including wind assisted propulsion





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Thank you for your attention!



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