

Netherlands

Wind of Change

Low-carbon industry: The **Dutch** Perspective

2 April, 2025
Porto Alegre



Key Decarbonization Targets

- **2030:** Reduce greenhouse gas emissions with 55%
- **2035:** Achieve a CO₂-free electricity sector.
- **2050:** Achieve climate neutrality
- **2050:** Establish a circular economy.



Actions and Strategies

Energy Transition

- Wind and solar power
- Hydrogen hub



Actions and Strategies

Offshore Wind Power

2006: Construction of first wind farms

2030: aiming for 21 GW of capacity

2050: further expansion to 70 GW

Main result: Cost of wind energy has decreased with 80%.



Actions and Strategies

From Gas to Hydrogen

NL is a European hub for cross-border trade in natural gas

Existing natural gas infrastructure to enable rollout of hydrogen

Examples: 'PosHYdon Project' and 'Hydrogen Backbone'

International cooperation is key



Main challenges

The creation and implementation of a low-carbon hydrogen supply chain. The reduction of overall costs requires the upscaling of hydrogen and the creation of demand.

- Infrastructure Limitations
- Supply Chain Challenges
- Regulatory Alignment
- Market Access
- Certification and Standards
- Cross-border Cooperation
- Technological Challenges
- Cost Competitiveness

Green Ports Partnership

Public Private Partnership between the Netherlands and Brazil

41 Dutch and Brazilian organizations involved, including Port of Pecém, Port of Rotterdam, Government of Ceará, and FIEC

Focus on port development, port logistics, port-related energy projects, i.a. offshore wind and green hydrogen production

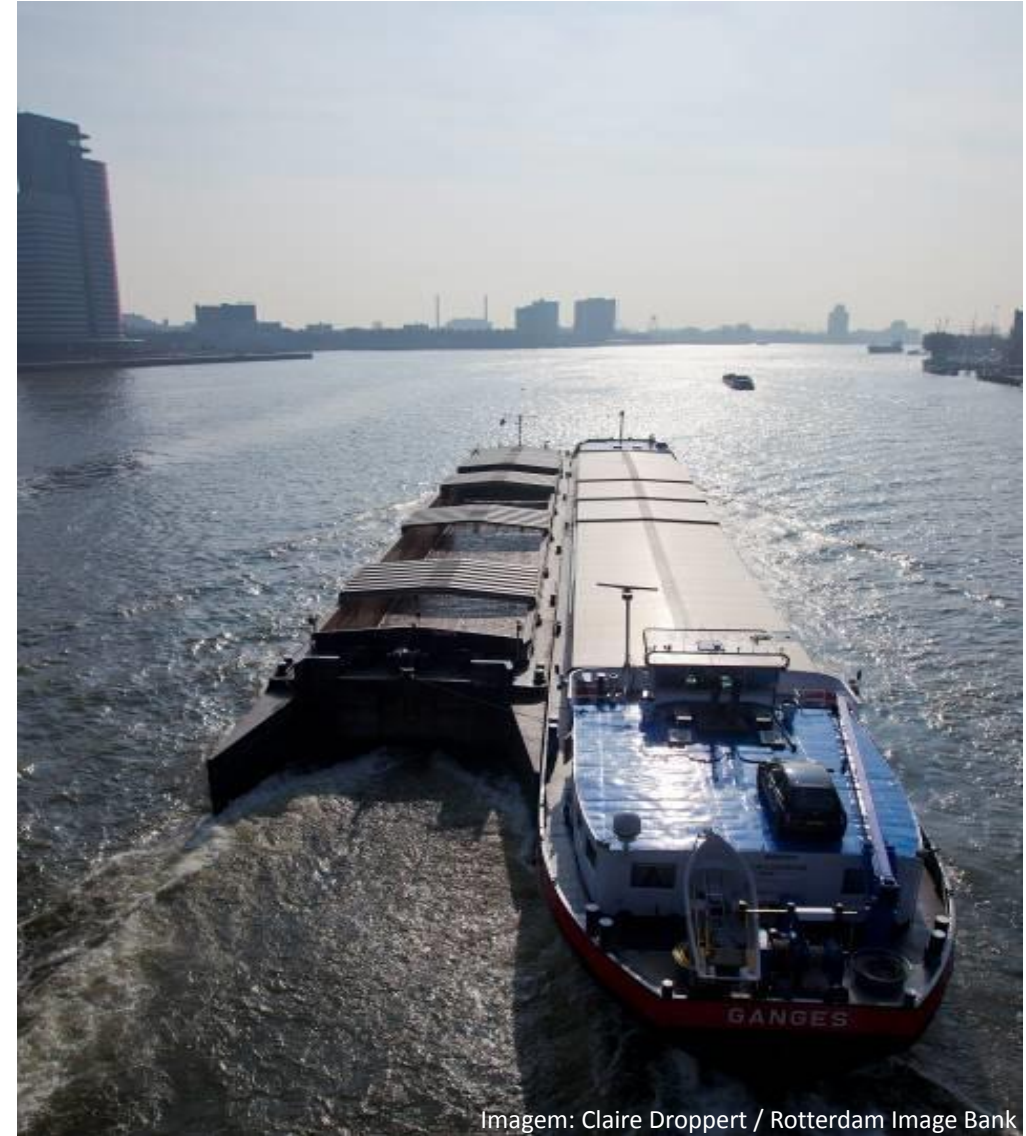


Imagem: Claire Droppert / Rotterdam Image Bank

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Muito Obrigada!

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