





Catalyst for Green Innovation: The Port of Hamburg

IAPH Seminar

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The Port of Hamburg: Gateway to Global Trade

Germany's most crucial gateway

120 million tons of cargo annually

Hub for **diverse** goods

Eco-friendly integration of sea
and rail transport

Europe's largest rail port, handling over 50% of traffic by rail Largest cruise port in Germany and beyond



The port is a **key guarantor of resilience** for Hamburg, Germany and beyond



Part of the Solution: Green Transformation in and trough the Port of Hamburg

Germany's National Port Strategy:

"Ports in Germany play a significant role in implementing the energy transition, transforming the economy, and decarbonizing maritime and hinterland transport on roads, rails, and waterways."

Hamburg's Target: Carbon Neutrality by 2040

Through initiatives like:

- 1. The formation of a **Sustainable Energy Hub**
- 2. Turning shipping greener
- 3. Fostering the establishment of **circular economy** in the port



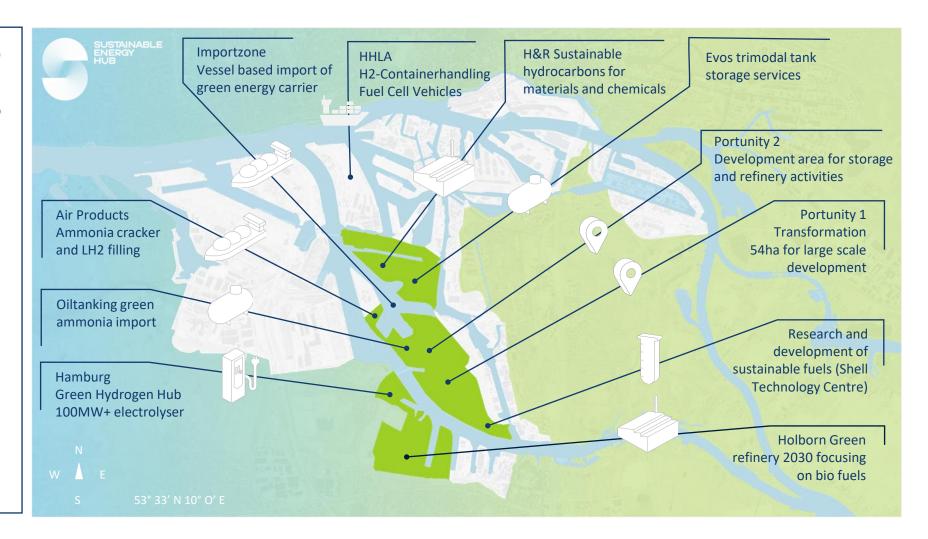
Sustainable Energy Hub Hamburg: Fueling a Fossil-Free Future



The sustainable energy hub builds on a **strong cluster** with decades of experience, cooperation as well as ambitious transformation projects of global scale:

- Green ammonia
- Green methanol
- E-fuels for maritime and aviation sectors
- CO2 Hub

The primary drivers of this initiative are both the commitment to sustainable energy and the securement of energy supply.



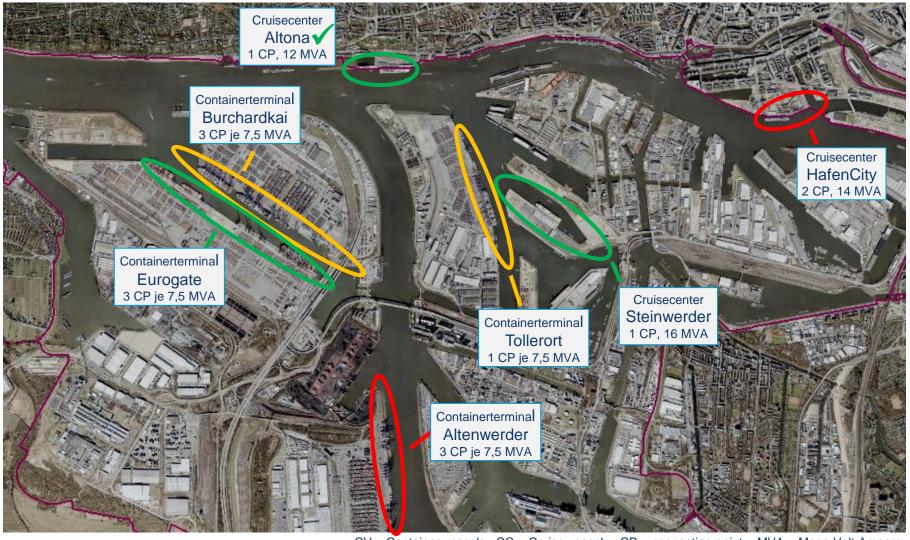
Green Shipping: Onshore Power Supply



Hamburg pioneers solutions to reduce the environmental impact of stationary ships at ports ahead of regulations.

Launch

Altona (CC)	2016
Steinwerder (CC)	2024
Eurogate (CV)	2024
Tollerort (CV)	2024
Burchardkai (CV)	2024
Altenwerder (CV)	2024
Hafencity (CC)	2025



CV = Container vessels CC = Cruise vessels CP = connection point; MVA = Mega Volt Ampere

Green Shippping: Making Maritime Transport More Sustainable

Adopting the Environmental Ship Index (ESI)

Recognized as the global standard for ship environmental performance

Modernizing the Port Fleet

Embracing zero-emission vessels and plug-in hybrid ships to ensure emissions-free operations

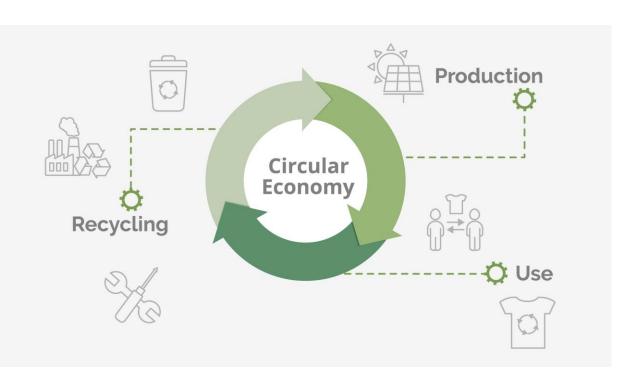
- **Developing Alternative Fuel Bunkering Strategies**
- **Establishing Green Shipping Corridors (GSC) and** partnerships

Creating sustainable supply chains and forging international collaborations



Circular Economy: Establishing a Closed-Loop System in the Port



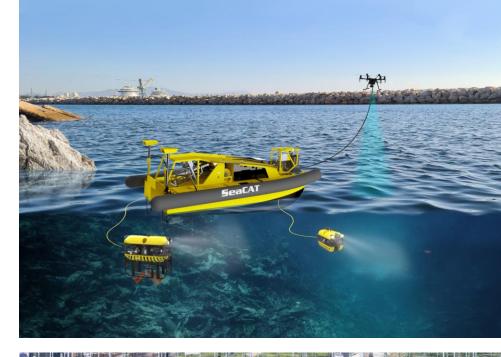


Hamburg's strategic location facilitates ideal business clustering in the circular economy

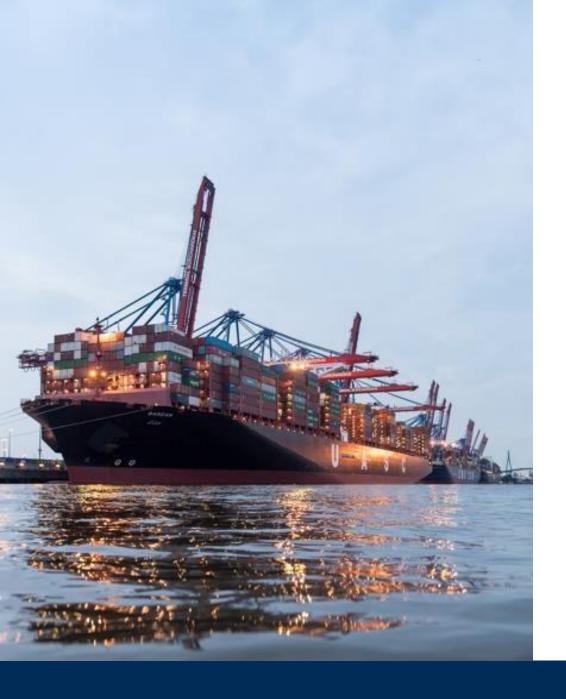
- Waste stream conversion initiatives
- Emerging metal recycling sector
- Launching a battery recycling pilot plant
- Major hub for critical raw materials
- Integrating circular practices at the port
- New business opportunities in sustainability

The Port of Hamburg as a Driver of Green Transformation

- Harnessing Digitalisation for Decarbonisation
- Leading Environmental Protection Initiatives (SeaClear 2.0)
- Advancing Inland Transportation Decarbonization
 - Hydrogen- or battery-powered shunting locomotives
 - Battery- or fuel cell-powered trucks
- Optimizing Resilient Transportation Networks









Catalyst for Green Innovation: The Port of Hamburg

- Connecting Germany to the World
- Integrating Eco-Friendly Transport
- Aiming for Carbon Neutrality by 2040
- **Establishing** a Sustainable Energy Hub
- Pioneering Green shipping Solutions
- Advancing Circular Economy Practices
- Advocating for Sustainable Legislation

IAPH's Pivotal Role in the Decarbonization of Ports





- Plays a crucial role in port decarbonization
- Provides valuable tools like Port Readiness Level
- Offers guidelines for bunkering of alternative marine fuels
- Facilitates continuously best practice exchange through technical committees, working groups, webinars (IAPH Harbor Café), World Ports Sustainability Program (WPSP), workshops (Port Endeavor Game), etc.
- Establishes global standards to adopt alternative fuels



Hamburg Port Authority AöR

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