

# bremenports :



**Green Energy Port  
Bremerhaven**



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bremenports International

# Ports of Bremen: Where are we?

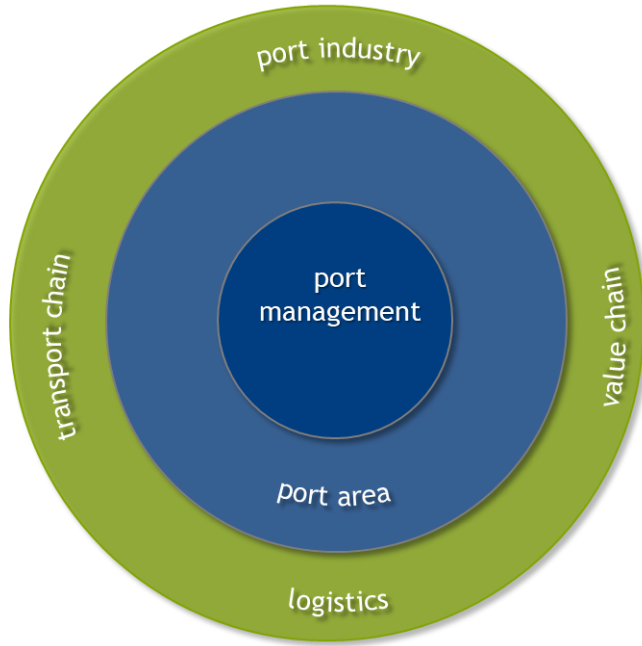
Two Cities – One Port.

bremenports  
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# Climate-neutral ports and shipping

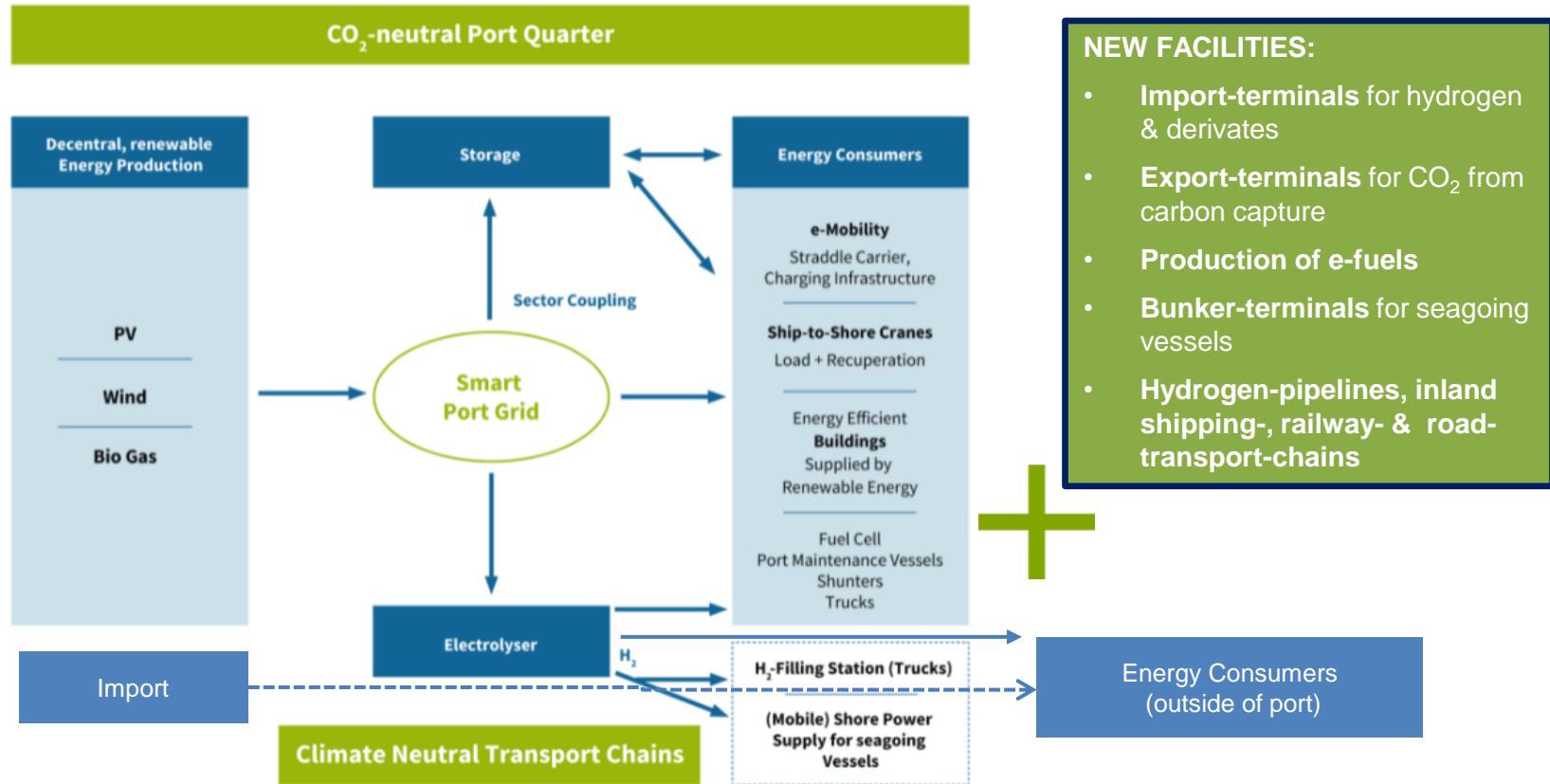
What is to be achieved by when?



Shipping	target: 2100 -50% in 2050	} Mostly IMO-driven
Hinterland	target: 2045	
Industry/logistics	target: 2045	} National legislation
Port as industrial cluster	target: 2035	
Port infrastructure management	target: 2023 (>75% erreicht)	
Port infrastructure bremenports as entity	achieved: 2013	} Free Hanseatic City of Bremen

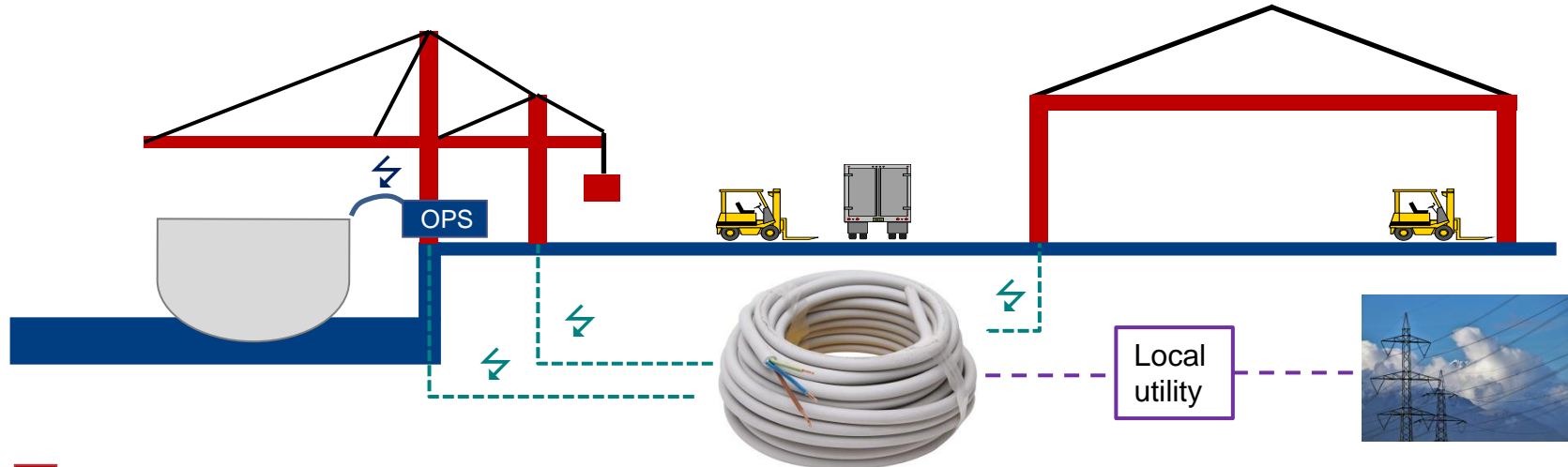
# Port: Energy transition and hydrogen production

Coupling of import, production, storage and consumption in a smart grid



# Achieving climate-neutrality in a port

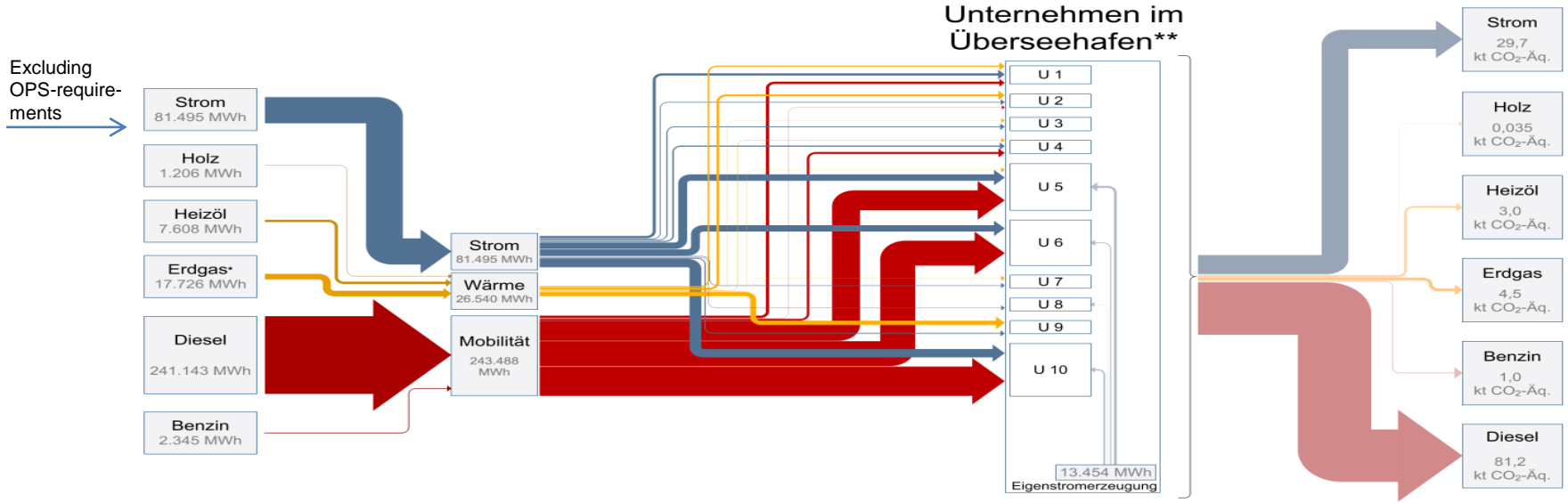
It is more about stakeholder management than applying technology



- Suprastructure** = private terminal operators
- Infrastructure** = public ownership (Free Hanseatic City of Bremen, managed by bremenports)
- Distribution grid** = concessioned to private operator (bremenports as landlord is neither an energy supplier nor a grid operator)

# Port as an industrial cluster: c. 370.000 MWh to address **semen** ports

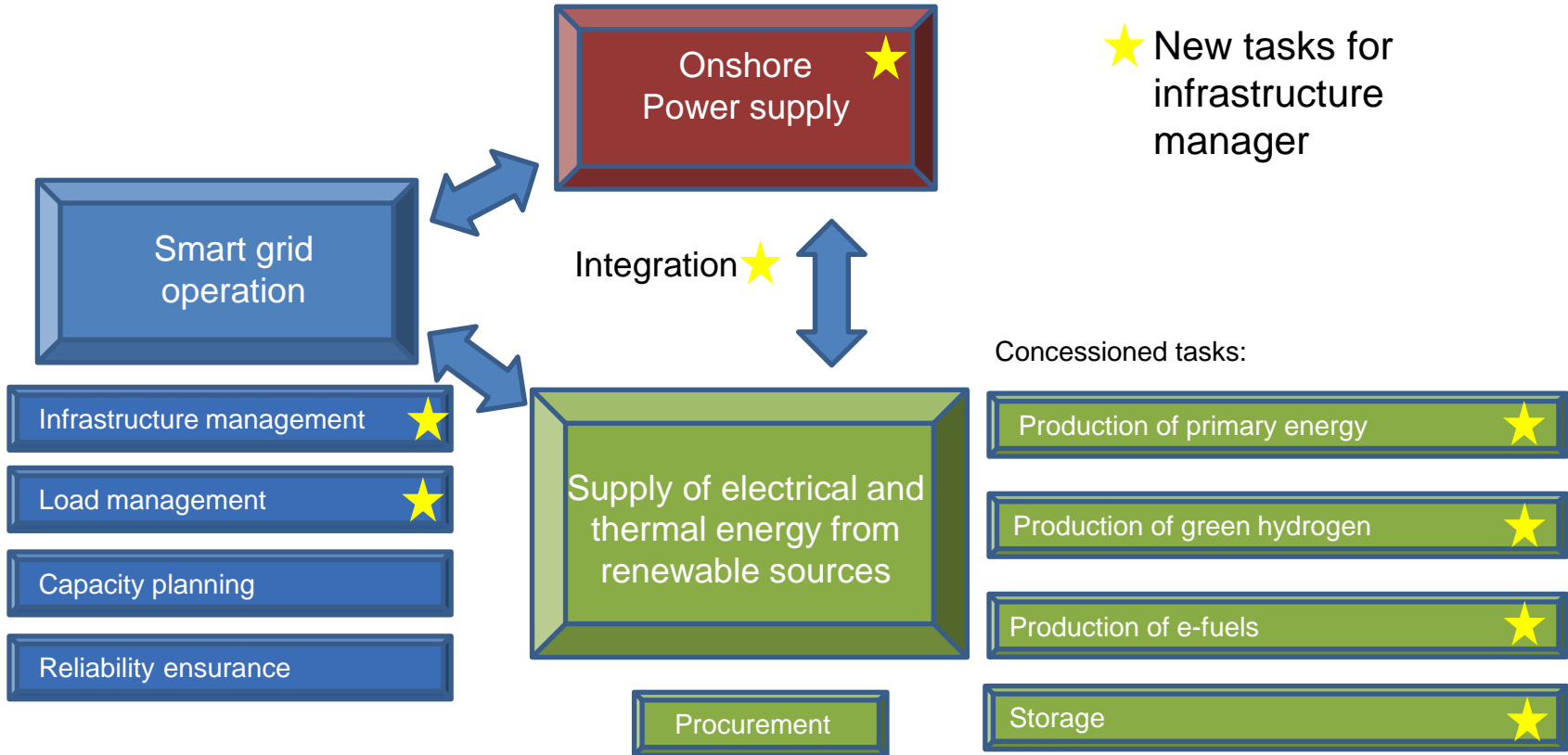
How do we want to be achieve it?



- We started with a **research project** (collaboration on a non-operational level between public and private partners)

# Port management to include energy management bremenports

Round-tables, focus group discussions revealed new role of port mgr



★ New tasks for infrastructure manager



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