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PROJECT BARENTS BLUE

Europe’s first world-scale blue ammonia plant

Key project data

Location: Markoppneset, Finnmark, Norway

Investment decision: end 2022

Start-up year: 2025

Gas supply: Melkøya LNG plant

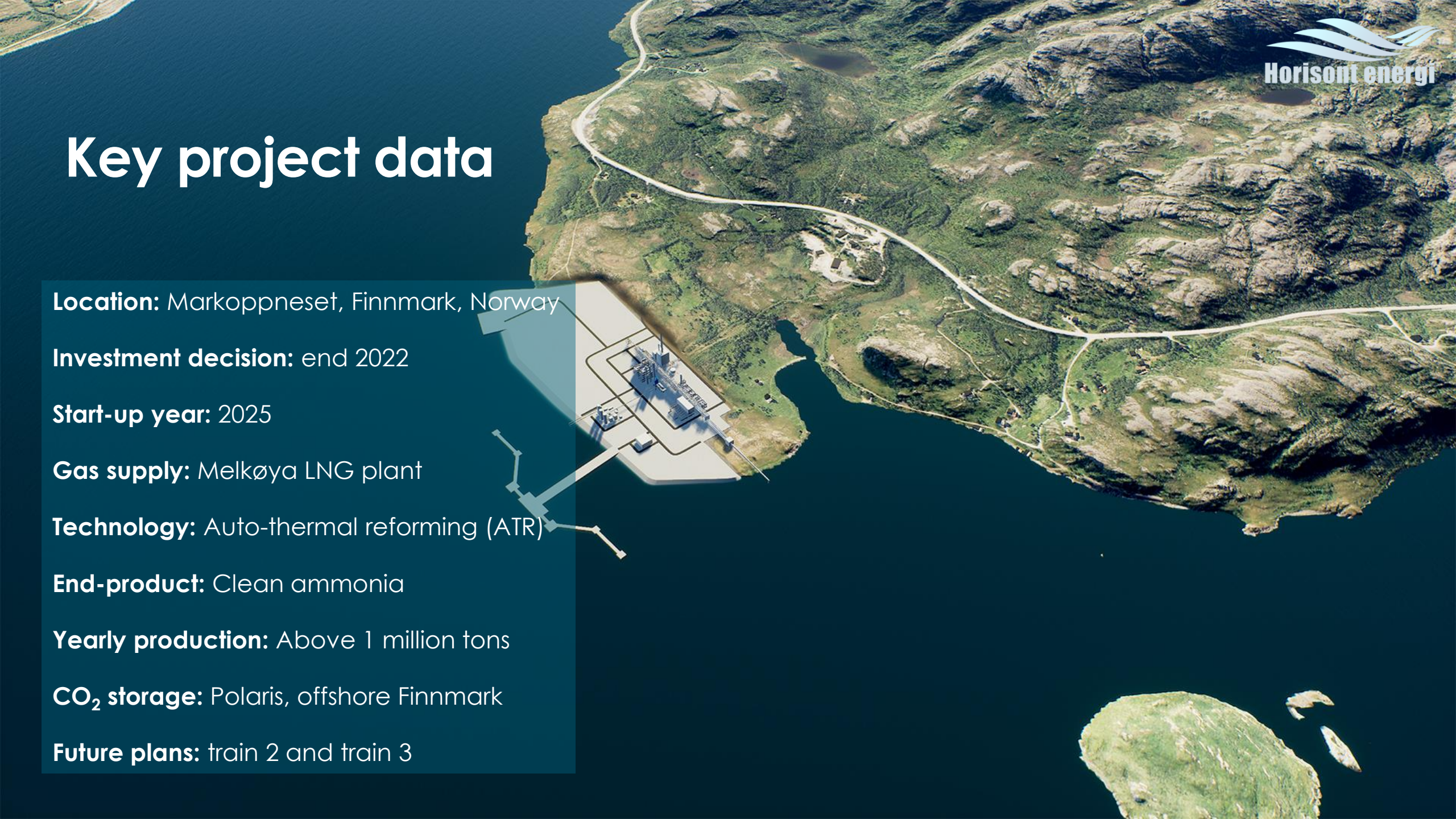
Technology: Auto-thermal reforming (ATR)

End-product: Clean ammonia

Yearly production: Above 1 million tons

CO_2 storage: Polaris, offshore Finnmark

Future plans: train 2 and train 3



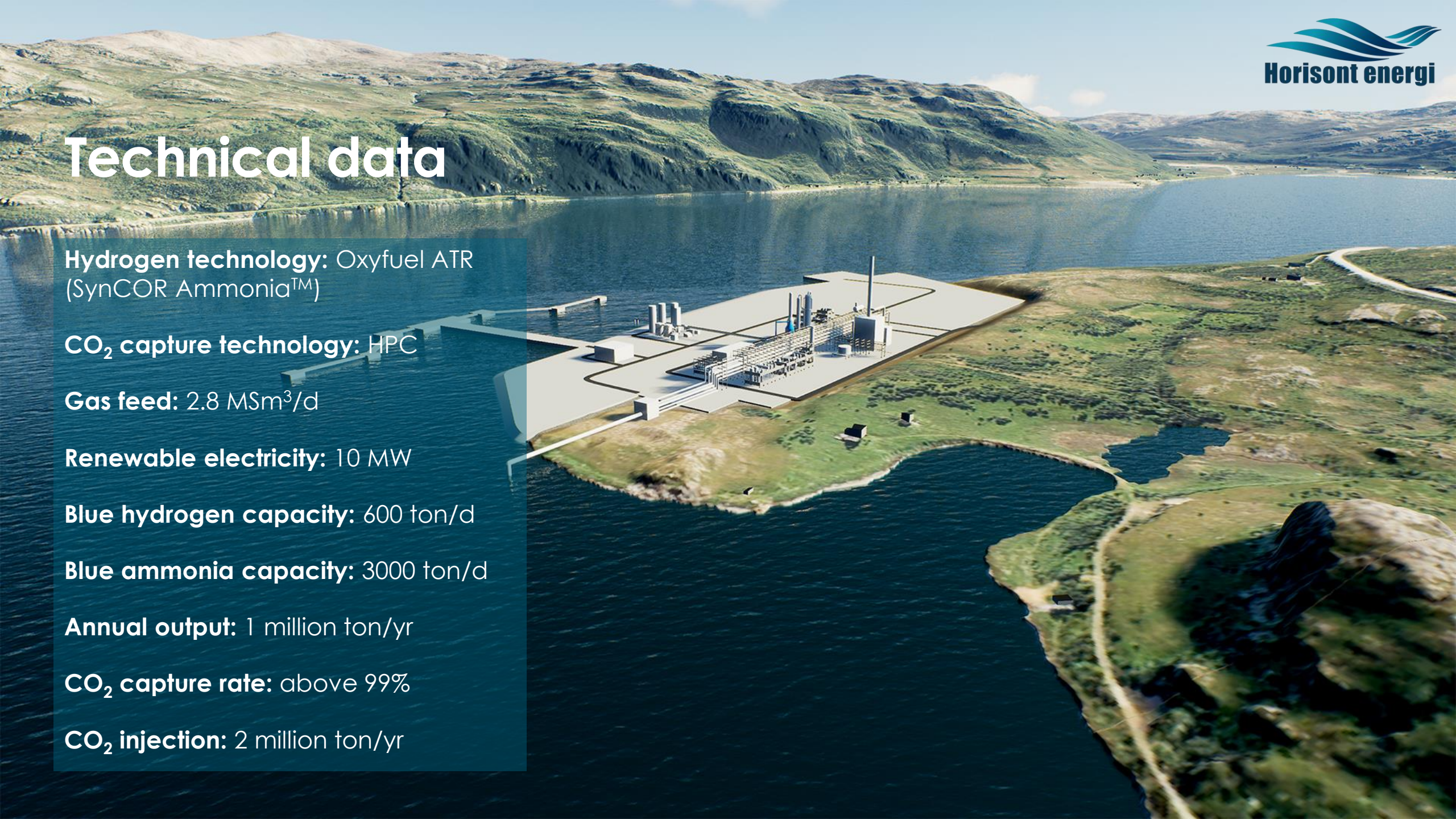
Key project ambitions

Develop the most carbon and energy efficient ammonia plant in the world

- Zero emissions, environmentally-friendly plant
- Self-sufficient on power, limited renewable electricity from the grid
- Fully automated plant with integrated energy management
- Focus on sustainable solutions and circular practices in design
- Low noise level and negligible light pollution
- Efficient winterisation utilising the benefit of the cold climate
- Highly modular construction strategy

> SETTING THE STANDARD FOR **BLUE HYDROGEN AND AMMONIA**

Technical data



Hydrogen technology: Oxyfuel ATR (SynCOR Ammonia™)

CO_2 capture technology: HPC

Gas feed: 2.8 MSm^3/d

Renewable electricity: 10 MW

Blue hydrogen capacity: 600 ton/d

Blue ammonia capacity: 3000 ton/d

Annual output: 1 million ton/yr

CO_2 capture rate: above 99%

CO_2 injection: 2 million ton/yr

Plant site

Name: Markoppneset

Located: Hammerfest, Finnmark

Area available: 250-300 acres

Regulated for: Industrial activity

DISTANCE FROM HAMMERFEST:	43 KM
DISTANCE FROM ALTA:	95 KM
DISTANCE FROM ROTTERDAM:	2700 KM

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"BRIDGING THE GAP TO A **CARBON NEUTRAL FUTURE**