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

CO₂ 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™)

**CO₂ capture technology:** HPC

**Gas feed:** 2.8 MSm³/d

**Renewable electricity:** 10 MW

**Blue hydrogen capacity:** 600 ton/d

**Blue ammonia capacity:** 3000 ton/d

**Annual output:** 1 million ton/yr

**CO₂ capture rate:** above 99%

**CO₂ 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

Markoppneset
Northern Norway
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BRIDGING THE GAP TO A CARBON NEUTRAL FUTURE

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