

Yara Clean Ammonia



Enabling the hydrogen economy - lessons learned through a century of producing and transporting ammonia

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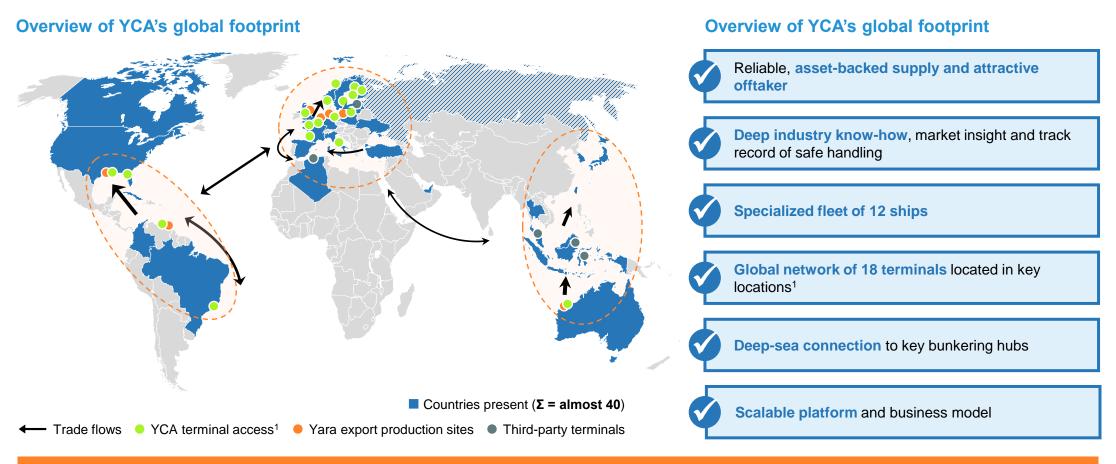
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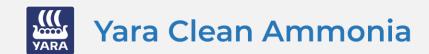
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YCA has an established global network with access to asset-backed supply

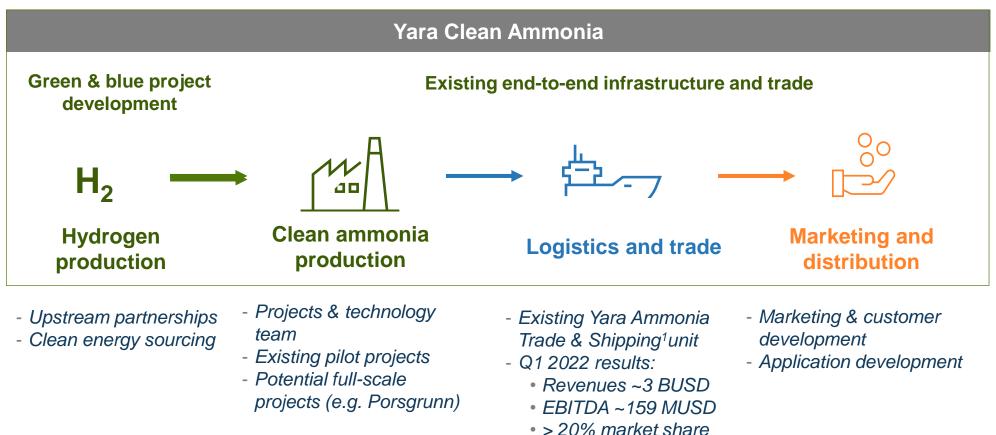


#1 global player with >20% market share² and leading positions in key regions



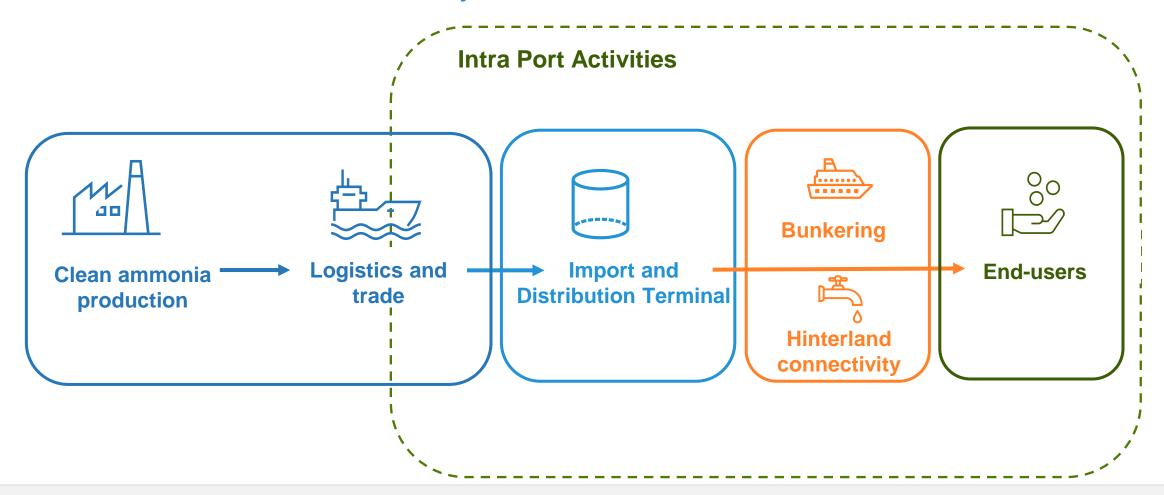


YCA is a leading global ammonia platform well-positioned to capture the market for clean ammonia



Ammonia Supply and Bunkering Value Chain

Ports a central node in the maritime ecosystem



HESQ performance at Yara International Leader in safety practices



The ESG Benchmark
EcoVadis 2021 Scorecard
was published on August 23,
2021. This year, Yara
advanced from Gold to
Platinum status for its
sustainability performance.



 Recognizes outstanding performance in safety, health and environment (SHE) in fertilizer production



 Supported by a consistent Safe By Choice approach, Yara's leading performance in safety is demonstrated by a Total Recordable Injury rate among the lowest in the fertilizer industry.

Collaboration Agreement with Pilbara Ports Authority

- Leverage existing ammonia production and trade flows in Pilbara
- Fast track ammonia as a zero-carbon fuel in the region
- Clarify required bunkering infrastructure to enable switch to zero-carbon shipping
- Establish frameworks to ensure safe ammonia bunkering operations

July 28, 2022

Yara Clean Ammonia and Pilbara Ports Authority team up to assess ammonia as a shipping fuel

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Pilbara Region Moves Towards Ammonia Bunkering

Perth, 28 July 2022

Yara Clean Ammonia and Pilbara Ports Authority (PPA) have signed a Collaboration Agreement to jointly facilitate the uptake of clean ammonia as a marine fuel in the Pilbara region in Western Australia.

Key highlights



Clean ammonia represents a massive opportunity on top of a structurally robust market for conventional ammonia

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- **Supportive ammonia market dynamics** expected to significantly **increase cross-regional trading activity**
- 3

The #1 global ammonia midstream platform¹ with significant barriers to challenge YCA

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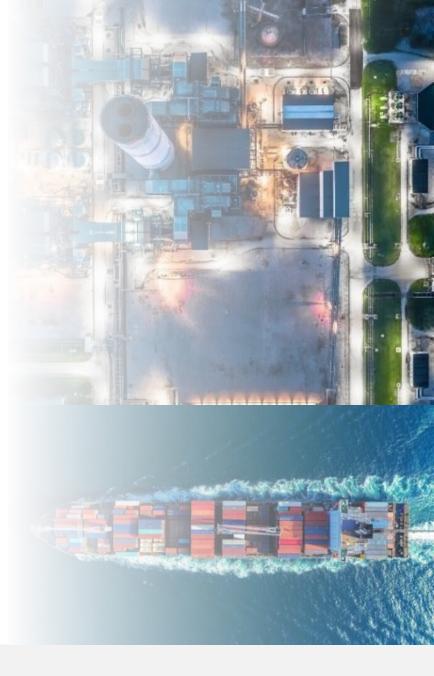
Access to **robust upstream projects** to further develop YCA's integrated value chain position

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Profitable and scalable business model with attractive economics and growth prospects from clean ammonia

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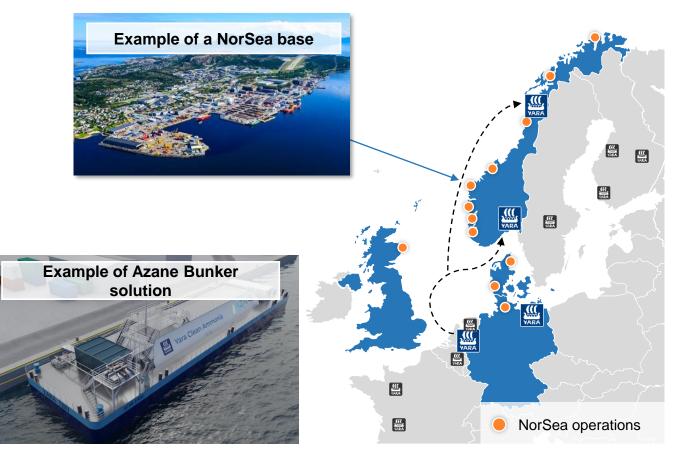
Experienced and performance-oriented organization with strong backing from Yara





MoU with NorSea to establish a new, secure supply chain for ammonia bunkering

Overview of the NorSea network



Key highlights

- NorSea and YCA have signed an MOU for to establish ammonia bunkering infrastructure for the North Sea
- NorSea is the largest logistics operator for North Sea activities, with over 10,000 landings per year, including all large oil and gas players in the region
- The first green ammonia bunkering is targeted to start in 2024
- At the outset, the scope includes all NorSea bases in the North Sea

NorSea involvement

- NorSea will operate the bunkering terminals
- Commercial and ownership strategy to be defined

YCA invovlement

- YCA will supply clean ammonia to terminals and handle safety aspects
- YCA will, in close cooperation with partners, develop and scale the logistics to ensure sufficient supply







- Operations
- Commercial

- Technology
- Construction

The Castor Initiative in Singapore

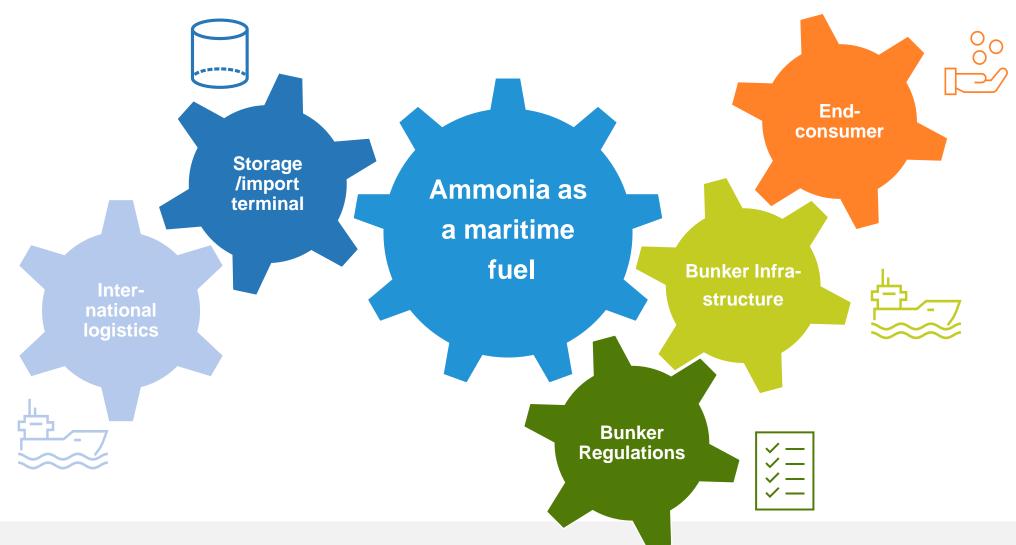
Castor Initiative



- Design, build, and commission the world's first ammonia-fueled liquid bulker in 2025
- Complete representation from all areas of the maritime ecosystem
- Study and develop operational procedures for use of Zero-Carbon Fuels
- TotalEnergies joined in December 2022



Ammonia Supply and Bunkering Ecosystem





Yara is executing a 4-way strategy towards securing clean ammonia supply around the world







DEVELOPING partnerships



ESTABLISHING offtake agreements

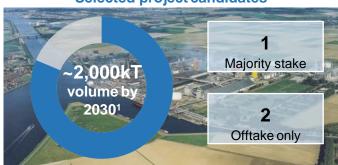
Growth potential from solid upstream projects, building on YCA's leading midstream position

Blue ammonia

Robust pipeline with solid project economics and profitability without need for further subsidies



Selected project candidates



Green ammonia

Early mover strategy where government support will be required – lower costs in the future will increase competitiveness



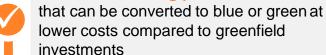
Selected project candidates



Well-positioned with a maturing project hopper and additional long-term opportunities

Well-positioned to succeed

Access to existing production assets



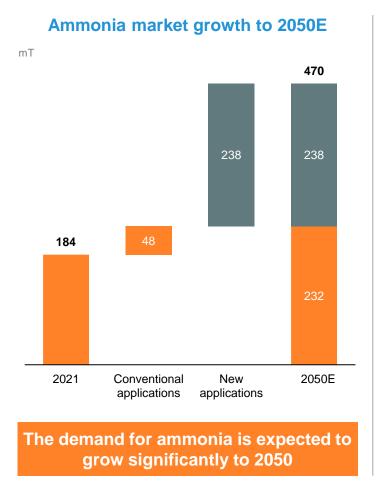
Knowledge and experience built

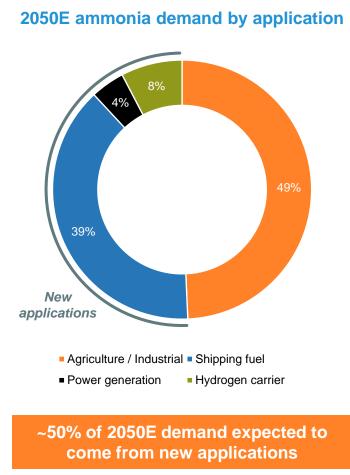
through Yara's almost 100 years of ammonia track record and over 8 mT ammonia capacity

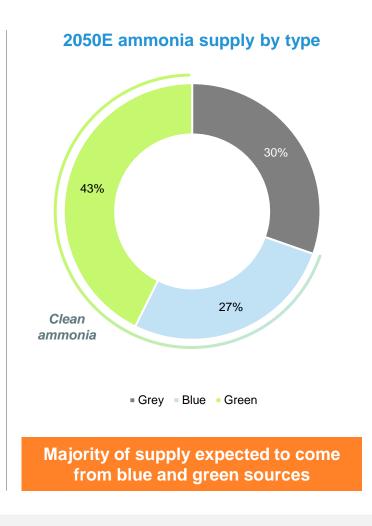
Market leading position makes YCA the preferred offtaker and partner for Yara and other third-parties, in turn enabling new projects



Significant expected ammonia demand driven by a mix of conventional and new applications



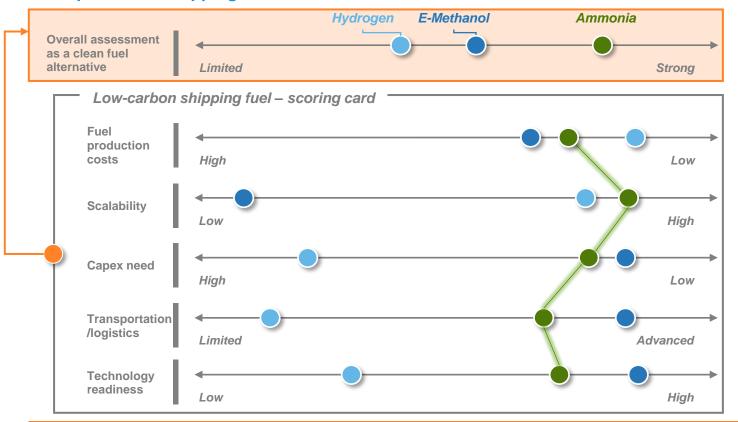






Ammonia is the most promising solution for clean fuel in deep-sea shipping

Comparison of shipping fuel alternatives



E-Methanol

- E-Methanol is not a zero-carbon fuel, as it emits CO2 when combusted
- Methanol will only be emission-free if the carbon going into e-methanol is captured from a source where it would otherwise be emitted or captured after combustion; this is very expensive and difficult to scale
- In light of its low scalability, there is limited incentive for large-scale adoption

Hydrogen

- Lower energy density disadvantageous for longer-distance shipping
- Limited existing infrastructure vs. ammonia
- Hydrogen fuel cells are not expected to be available at commercial scale before 2028/2029, while ammonia engines should be available from 2024/2025

"Ammonia (green and blue) is the most promising carbon-free deep-sea fuel in the long run" - DNV



Certification to ensure transparency & trust in supply chain



 Piloting the Zero Carbon Certification Scheme for the ammonia from our solar-powered electrolyser project in Pilbara.



 Taking part in various industry associations to work towards a globally harmonized hydrogen and ammonia certification system



 Developing a chain of custody and carbon footprint system to guarantee the preservation and calculation of clean attributes throughout Yara's entire supply chain.