

Yara Clean Ammonia



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YCA is a leading global ammonia platform wellpositioned to capture the market for clean ammonia

YCA in brief



A fully integrated midstream platform in the ammonia value chain, with asset-backed supply and a global logistics and infrastructure footprint covering operations from sourcing to sale of ammonia



Stand-alone entity backed by majority owner and preferred partner Yara, which has almost 100 years of ammonia experience and a global presence



A key enabler of decarbonization of hard-toabate industries through a strong capability set and an ambitious growth strategy, targeting upstream and downstream expansion

Company highlights



USD **3.0**bn

Q1 2022 LTM Revenues¹



USD 166m

Q1 2022 LTM EBITDA¹



>20%

Market share of merchant / traded ammonia in 2020



4.2mT

Ammonia transported and sold in 2021



#12

Owned and leased purpose-built ammonia carriers



#18

Terminal access in key geographies²

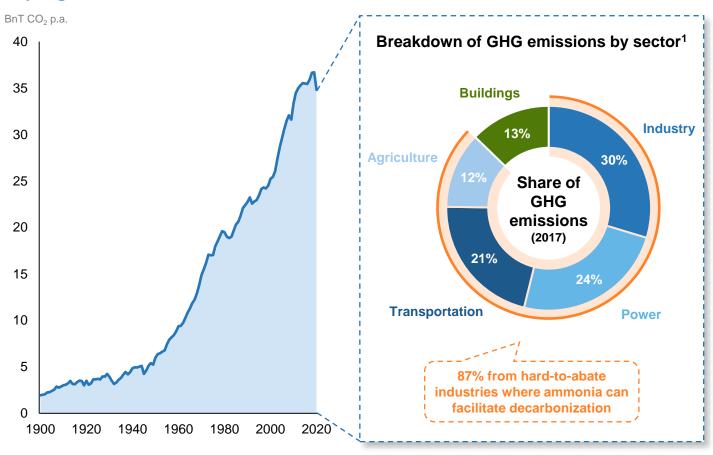


Source: Company information; Argus

- 1) Financial figures are presented according to Yara's segment reporting, and is expected to deviate from YCA's combined financials as a stand-alone company. Explanations, definitions and reconciliations of alternative performance measures are included in Yara's annual and guarterly reports (yara.com)
- 2) Exclusive access and right-of-use of Yara terminal infrastructure

Clean ammonia offers a solution to the decarbonization challenge...

Rapid growth in GHG emissions from hard-to-abate industries



Ammonia is an attractive solution



Clean ammonia available through existing blue and green production methods



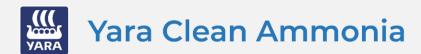
Highly versatile with multiple direct applications



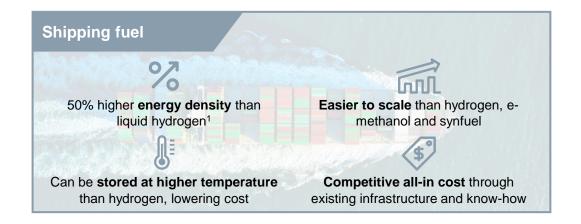
Ideal energy carrier with favorable performance across clean fuel KPIs²



Well-established global infrastructure and storage network



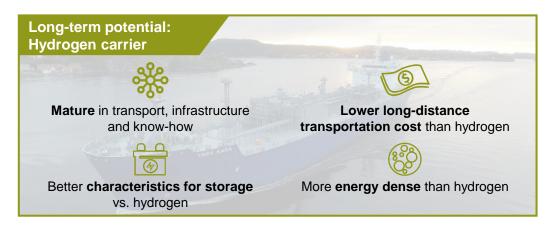
...with real potential to unlock decarbonization opportunities in several key industries







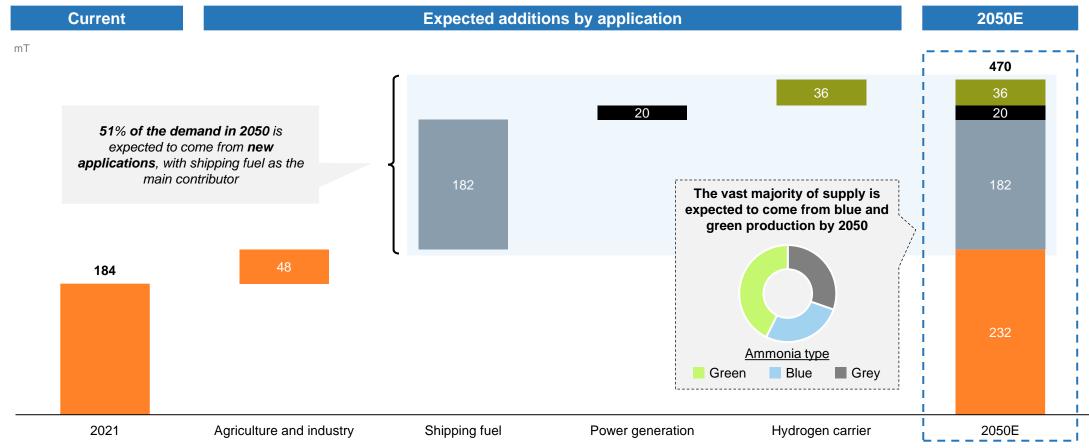
Yara Clean Ammonia





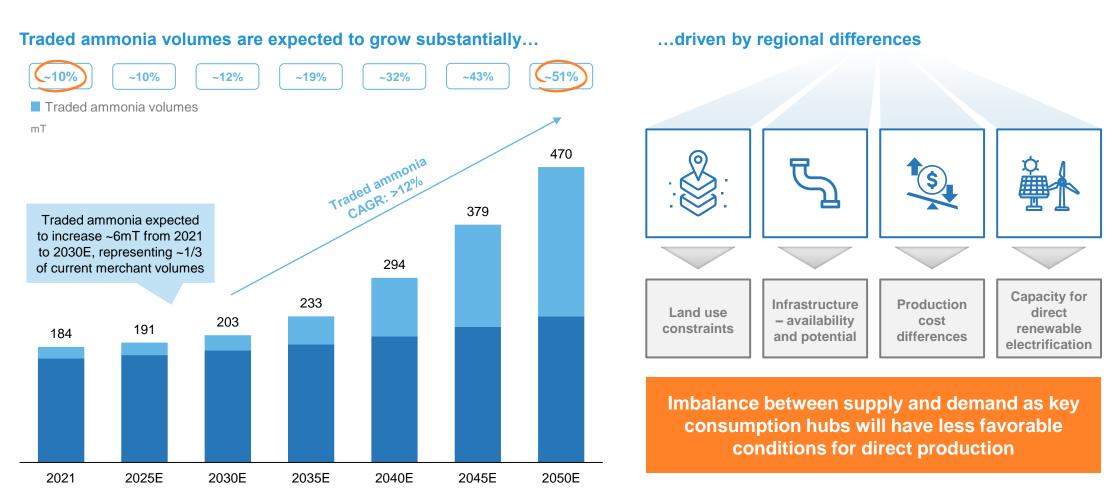
Significant growth potential driven by adoption of clean ammonia in new applications

Global ammonia demand expected to grow significantly in volume from 2021 to 2050, adding close to 300mT to the market





The future ammonia market expected to rely heavily on cross-regional transportation





Clear market leader today, providing a unique starting point to develop the clean ammonia value chain...

Yara Clean Ammonia



Global No.1 with >20% market share of merchant / traded ammonia in 2020

Key success factors for YCA



Reliable, asset-backed supply and attractive offtaker



Deep industry know-how, market insight and track record of safe handling



Access to specialized fleet of 12 ships



Global network of 18 terminals located in key geographies¹



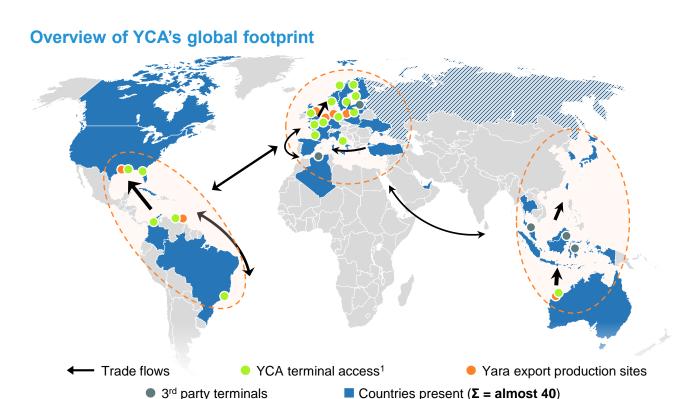
Deep-sea connection to all key bunkering hubs



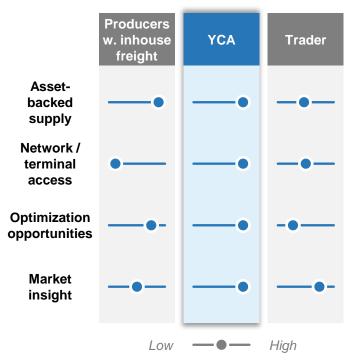
Scalable platform and business model



...backed by an established global network with access to asset-backed supply



YCA has a differentiated model



YCA has a leading end-to-end position in the ammonia value chain

Project execution and production²

Sourcing, optimization and shipping

Global distribution, storage and sales

Ammonia fuel bunkering³

Customers (existing MoUs)



Source: Company information: Argus

- 1) Exclusive access and right-of-use of Yara terminal infrastructure
- 2) YCA production is covered by Yara; YCA currently has no own production
- 3) Ammonia fuel bunkering does currently not exist, YCA and other players are expected to enter the segment as the market develops

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

that can be converted to blue or green at lower costs compared to greenfield investments

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



YCA is positioned to become a key enabler of the green transition

By successfully delivering on its business plan, YCA expects to achieve

3mt

Reduction of existing

Reduction of existing emissions from ammonia production (Scope 1-2)

By 2030 (vs. 2019 baseline)

Equivalent to the emissions of ~650 thousand passenger cars per year²

4mt

Avoided emissions

of future conversion and new build projects net of loss in energy efficiency from use of ammonia mainly in shipping fuel³

By 2035

Equivalent to the emissions from ~4 million flights between Paris and NYC⁴



Reduction in GHG intensity vs. baseline for customers in shipping and power³

By 2035



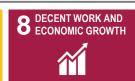




CO₂ reduction of a

bread at a marginal

cost increase of ~1%1













Attractive financial profile with high and stable cash conversion

Key metrics (USDm) ¹	2019 ²	2020	2021	Q1 '22 LTM
Revenue	1,260	1,028	2,317	3,036
EBITDA	112	129	131	166
Operating income	88	95	93	124
Transported volume (kt)	4,554	3,980	4,154	4,151
EBITDA / transported ton ³	25	32	32	40
Investments	1	0	9	8
Ammonia price (fob Black Sea, USD / ton) ⁵	235	204	544	N/A



Robust unit margins



Stable volume development within existing business, comprising both internal and external sales



Low capex need for midstream business – capex expected to increase as YCA targets growth in the developing clean ammonia market



Total assets⁴ of USD742m by year-end 2021, primarily comprised of investments in ships and operating capital



Source: Company information; Argus

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- 2) Based on the Ammonia Trade and Shipping business unit reported as part of Global Plants and Operational Excellence
- EBITDA / transported ton is calculated by dividing EBITDA (as reported by the Yara segment YCA) by transported volume as presented in this table
- 4) Total assets excludes internal cash accounts and deferred tax assets
- 5) Publication price from Argus direct

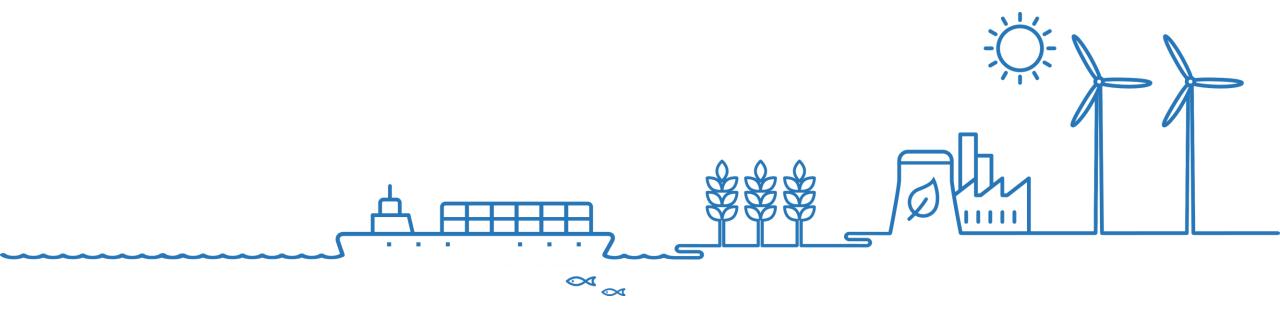
Concluding remarks

- Clean ammonia represents a massive opportunity on top of a structurally robust market for conventional ammonia
- Supportive ammonia market dynamics expected to significantly increase cross-regional trading activity
- The #1 global ammonia midstream platform¹ with significant barriers to challenge YCA
- Access to **robust upstream projects** to further develop YCA's integrated value chain position
- Profitable and scalable business model with attractive economics and growth prospects from clean ammonia
- Experienced and performance-oriented organization with strong backing from Yara



Source: Company information; Argus

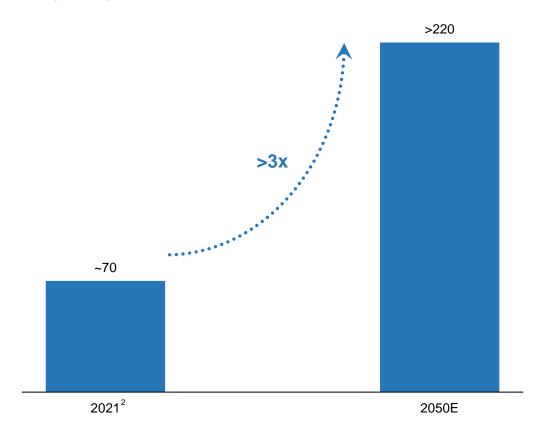
Supporting materials



Ammonia market expected to grow by >3x supported by the crucial need to decarbonize industries

Total ammonia market expected to grow rapidly to 2050

USDbn (real terms¹)



Key market drivers



Shipping fuel

Adoption expected to increase rapidly from 2030 driven by anticipated **regulations and customers' environmental focus**



Power generation

Market players expect **40-50% co-firing on operational coal-fired plants** in selected countries by 2050, driven by Japan, Korea and Taiwan



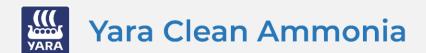
Agriculture

High-value brands with ability to achieve up to 20% premium on sustainable-labelled food products, highlighting strong adoption incentive. Ammonia base market for fertilizer will continue to grow



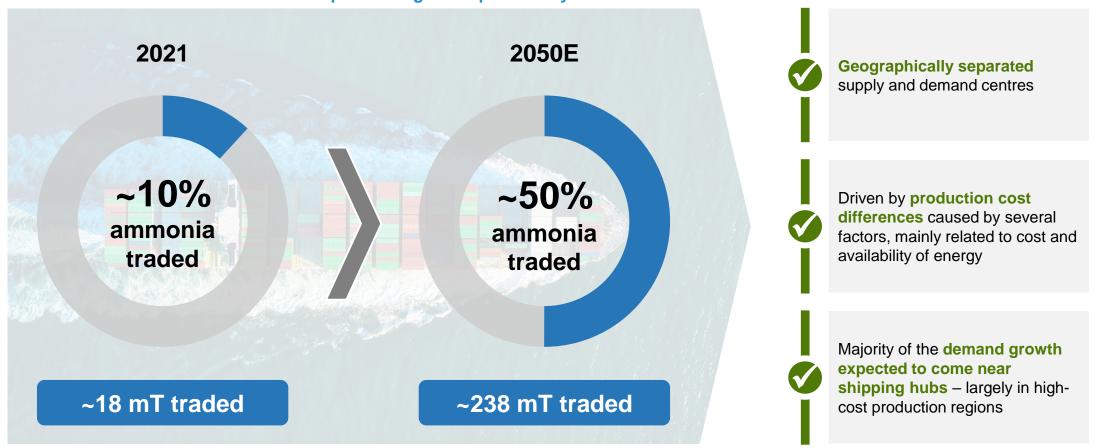
Hydrogen carrier (after 2035)

Market based **on Europe as major import hub** for cheap renewable-based hydrogen and **Japan as key import market in Asia**



Decoupling historical pattern of captive consumption will increase the importance of YCA's midstream position

Global traded ammonia volumes are expected to grow exponentially



Blue ammonia will be the key immediate focus before economics improve for green ammonia

Blue ammonia

Brief description

Scalability

Technology and cost gap

Economic incentives

"Low-carbon" cost leader throughout the long-term; competitive access to natural resources and infrastructure key to win



Requires meaningful investments to meet demand potential



Carbon capture technology commercially ready – most economically viable low-carbon fuel



Regulatory incentives already in place in certain regions

Transitional option for rapid abatement of emissions

Green ammonia

"Subsidized" green ammonia projects could breach the blue cost curve by 2035+ but will require significant cost progress



Further scaling benefits in hydrogen needed along with increased access to ample renewable energy



Electrolyser technology still being developed and significant investments needed to achieve competitiveness

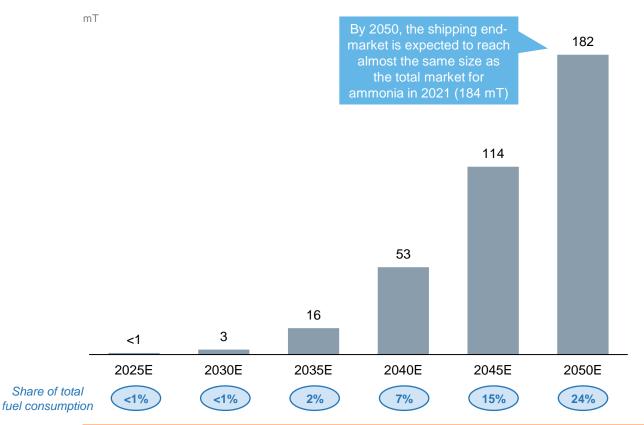


Further regulatory push required and subsidies for green / higher prices on alternatives required

Long-term fully renewable option

Demand for ammonia as a low-carbon shipping fuel expected to increase exponentially from 2025

Blue / green ammonia shipping fuel demand outlook



Key supply and demand drivers



Enabling technology

Concept proofing and developing the infrastructure is likely to push shipowners to ammonia



Increasing carbon price

Carbon taxes expected to raise the price of fossil fuels, making ammonia more attractive for shipowners



Green ammonia cost reduction

Technological advancement, access to renewable power and scaling effects expected to reduce production costs significantly



Political support

National and supranational regulations, and authority from IMO seen as key political enablers



Customer preferences

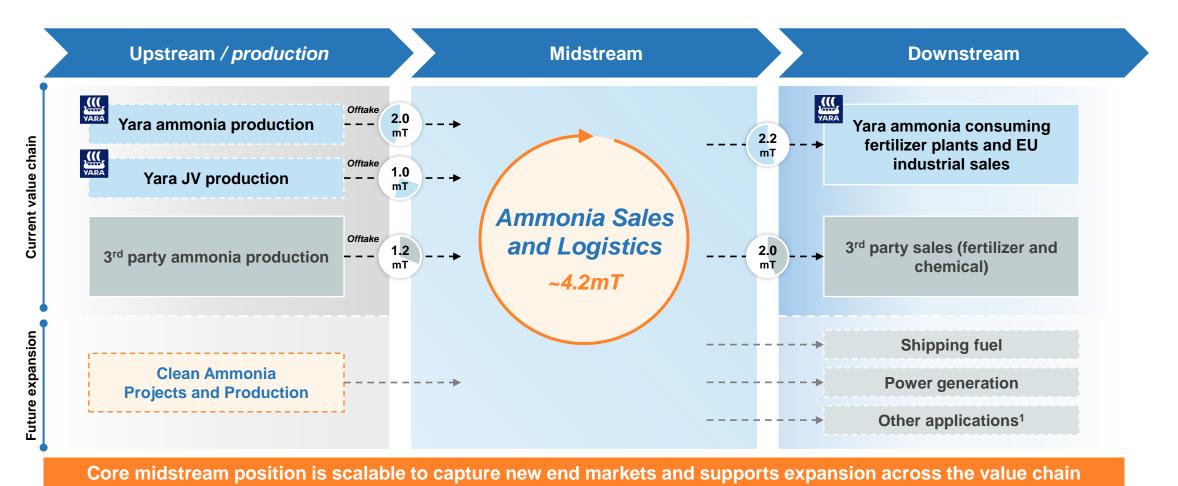
Customer preferences and ESG focus turning shipowners towards clean, future-proof solutions

Ammonia scores better than hydrogen on clean fuel KPIs¹

1) KPIs include density, cost, scalability and distribution

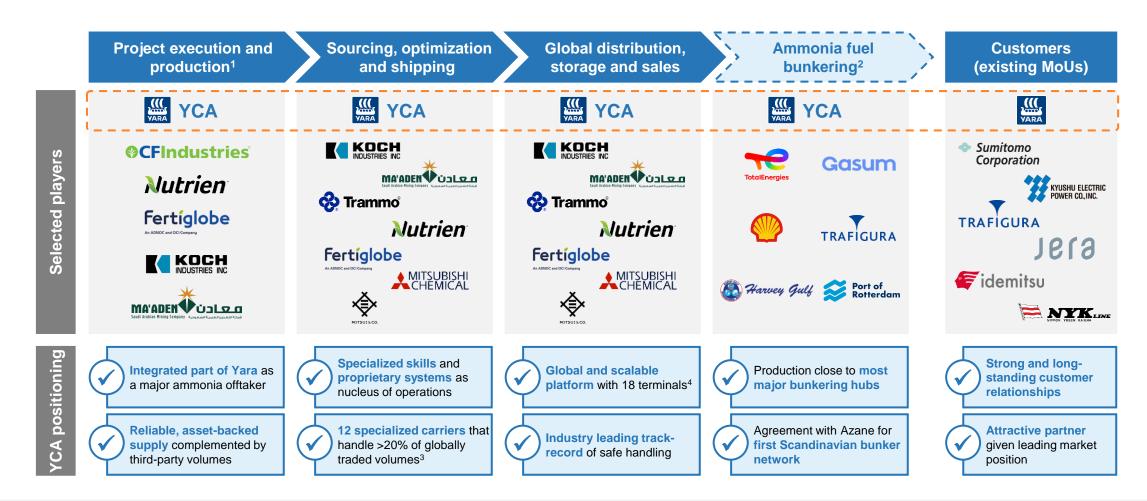


YCA covers the value chain from sourcing to sales, transporting ~4.2mT of ammonia





YCA has a leading end-to-end position in the ammonia value chain



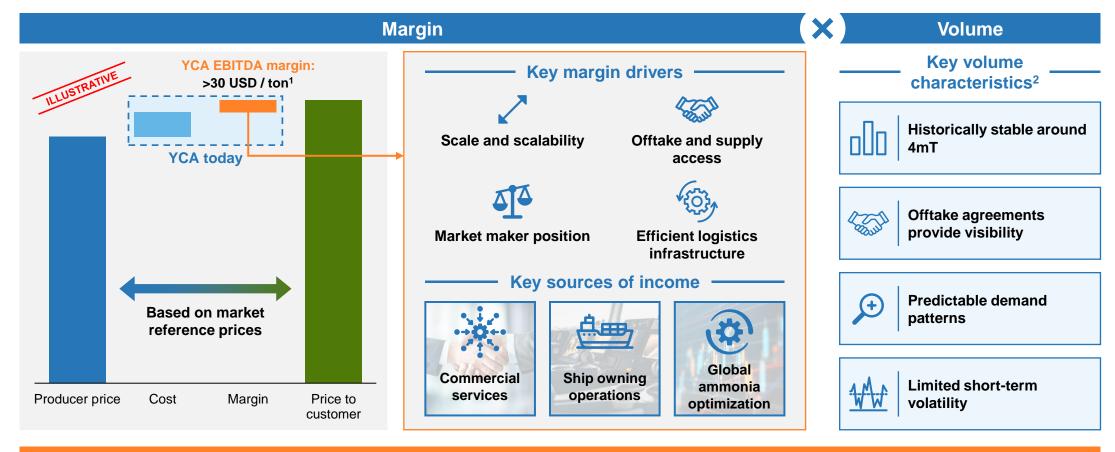


²⁾ Ammonia fuel bunkering does currently not exist, YCA and other players are expected to enter the segment as the market develops

³⁾ Market share of merchant / traded ammonia market in 2020

⁴⁾ Exclusive access and right-of-use of Yara terminal infrastructure

YCA benefits from a predictable and scalable economic model with strong value creation potential



Scalable platform with robust margins – YCA is well-positioned to drive volumes while maintaining attractive economics



Experienced management team with almost 200 years of combined industry experience



Magnus Krogh Ankarstrand

CEO

- 15 years of international mgmt. and team leadership experience
- 9 years at Yara
- Former Head of North America, and Head of Strategy at Yara



Hallgeir Storvik

CFO

- 37 years industry and finance experience with Yara and Hydro
- Former CFO and Head of Strategy at Yara



Lise Winther

Projects & Technology

- 34 years experience with management of large capital projects and technology
- 13 years at Yara and Hydro
- Former Head of Cleaner
 Production at Shell and System
 Technology at Hydro



Murali Srinivasan

Commercial

- 23 years industry and trade experience with Yara and Hydro
- Former CFO for Yara Industrial and Crop Nutrition Segments



Vibeke Rasmussen Product Mgmt. & Certification

- 26 years of water and environmental technology leadership experience
- 9 years at Yara and Hydro
- Former Director Product Quality, and Head of ET & NPK R&D at Yara



Joacim Rød Christiansen Corporate Development & M&A

- 15 years energy industry experience
- 10 years at Yara
- Former Head of M&A and SVP, Sustainable Food Ecosystem at Yara, ex. McKinsey consultant



Irene Odhiambo

Human Resources

- 15 years HR generalist experience
- 6 years at Yara
- Previously HR Business Partner at Yara Global Plants and Country HR Manager Yara East Africa



Bart van Hoof

Business Development

- 14 years of international large capital projects and contracting experience
- 12 years at Yara
- Former Head of Contracting at Yara Project Organization



Hilde Steinfeld

Communication

- 17 years experience from communication and public affairs
- Ex. consultant and former VP Public Affairs at Burson Cohn & Wolfe
- Previously diplomat and civil servant



Almost 200 years of industry experience and over 100 years at Yara



Proven ability to deliver strong financial results



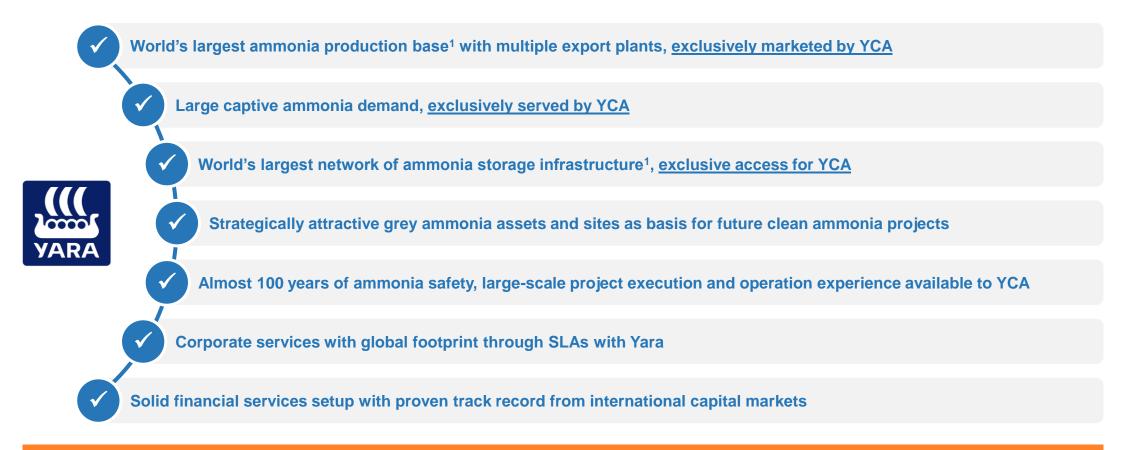
Diverse team combining key capabilities to build global businesses



Yara Clean Ammonia

Source: Company information

Strong and committed long-term backing from Yara



YCA is set up to perform its core business activities independently while also benefiting from the deep knowledge and leading capabilities of Yara

