

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



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Source: Company information; Argus

- 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 quarterly reports (yara.com)
- 2) Exclusive access and right-of-use of Yara terminal infrastructure

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





Source: "Net-Zero Europe", McKinsey & Company, 2020; Global Carbon Atlas; Arkwright market study 2021

1) Based on direct EU emissions in CO₂ equivalents

2) KPIs include density, cost, scalability and distribution

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





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Source: Company information; Arkwright market study 2021

- 1) Source: "Reversible ammonia-based and liquid organic hydrogen carriers for high-density hydrogen storage: Recent progress", International Journal of Hydrogen, 2019
- 2) At 1% extra cost on a loaf of bread, Yara can deliver a 15-30% reduction in carbon footprint

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



...driven by regional differences



Imbalance between supply and demand as key consumption hubs will have less favorable conditions for direct production



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



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



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

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

Overview of YCA's global footprint



are expected to enter the segment as the market develops

YCA has a differentiated model

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



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

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Source: Company information
1) Estimated volume for the selected candidate projects

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

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

Yara Clean Ammonia





Source: Company analysis for Yara Scope 1-2 impact (not 3rd party verified); Arkwright market study 2021, YCA GHG impact assessment for net avoided emissions impact 1) At 1% extra cost on a loaf of bread, Yara can deliver a 15-30% reduction in carbon footprint; 2) Based on average CO₂ emission from passenger vehicles of 4.6 metric tonne (United States Environmental Protection Agency study in 2021); 3) Estimated CO₂ emission reduction from converting from a future baseline fuel mix to clean ammonia-based combustion, net of inherent energy efficiency losses of using ammonia combustion technology in shipping and ammonia co-firing in coal power plants. Analysis compare GHG intensity of YCA's clean ammonia portfolio to a future improved GHG intensity baseline per segment, e.g. assuming a higher share of LNG and methanol in the future fuel mix for shipping, and higher share of renewables in the future power generation mix; not a like for like substitution of marine gasoil or coal with clean ammonia. Assumes partial credit for 3rd party produced volumes distributed by YCA in line with best-practice methods. Higher efficiency fuel-cell technology in shipping is not included. 4) 1 tonne CO₂ represents the average emission of one passenger on a return-flight from Paris to New York ("What exactly is a tonne of CO₂"; European Environment Agency)

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Attractive financial profile with high and stable cash conversion

Key metrics (USDm) ¹	2019 ²	2020	2021	Q1 '22 LTM	Robust unit margins
Revenue	1,260	1,028	2,317	3,036	Stable volume development
EBITDA	112	129	131	166	within existing business, comprising both internal and external sales
Operating income	88	95	93	124	Low capex need for
Transported volume (kt)	4,554	3,980	4,154	4,151	 midstream business – capex expected to increase as YCA targets growth in the developing clean ammonia market
EBITDA / transported ton ³	25	32	32	40	
Investments	1	0	9	8	Total assets ⁴ of USD742m by year-end 2021, primarily comprised of investments in ships and operating capital
Ammonia price (fob Black Sea, USD / ton) ⁵	235	204	544	N/A	



Source: Company information; Argus

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. 1) Explanations, definitions and reconciliations of alternative performance measures are included in Yara's annual and quarterly reports (yara.com)

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

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



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Source: Company information; Argus

) Based on market share of merchant / traded ammonia market in 2020

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)



^{2021&}lt;sup>2</sup>



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



Source: Arkwright market study 2021

1) USD 398bn in nominal terms in 2050, assuming an inflation rate of 2% starting 2021

2) Based on a normalized ammonia price of ~USD 375 / ton

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	Green ammonia
Brief description	"Low-carbon" cost leader throughout the long-term; competitive access to natural resources and infrastructure key to win	"Subsidized" green ammonia projects could breach the blue cost curve by 2035+ but will require significant cost progress
Scalability	Requires meaningful investments to meet demand potential	Further scaling benefits in hydrogen needed along with increased access to ample renewable energy
Technology and cost gap	Carbon capture technology commercially ready – most economically viable low-carbon fuel	Electrolyser technology still being developed and significant investments needed to achieve competitiveness
Economic incentives	Regulatory incentives already in place in certain regions	Further regulatory push required and subsidies for green / higher prices on alternatives required
	Transitional option for rapid abatement of emissions	Long-term fully renewable option



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

Blue / green ammonia shipping fuel demand outlook



Ammonia scores better than hydrogen on clean fuel KPIs¹

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Source: Arkwright market study 2021

Note: 2030 estimated total blue / green volume including also Power and Fertilizer is ~6mt, with shipping representing ~50% 17

Key supply and demand drivers

1) KPIs include density, cost, scalability and distribution

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



Core midstream position is scalable to capture new end markets and supports expansion across the value chain



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



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Source: Company information; Argus

- 1) YCA production is covered by Yara; YCA currently has no own production
- 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
- 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



Source: Company information

-) Based on 2020 and 2021 financial figures according to Yara's segment reporting, which is expected to deviate from YCA's combined financials as a stand-alone company
- 2) Characteristics based on historical track record

Experienced management team with almost 200 years of combined industry experience





Yara Clean Ammonia

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

