



Knowledge grows

## Yara International ASA

*Thor Giæver, EVP & CFO*

6 December 2023

SpareBank 1 Markets Morning meeting



# Growing a Nature Positive Food Future

## Climate neutrality

Reduce our own emissions and improve productivity at our production sites

—  
Contribute to decarbonize agriculture

—  
Contribute to decarbonize transportation and energy



## Regenerative farming

Improve farming productivity and nutrient use efficiency (NUE)

—  
Positively impact nature in the value chain: soil health, biodiversity, water, air quality and land use change



## Prosperity

Improve farmer income and sustainability

—  
Positively impact farmer diversity

—  
Contribute to zero hunger and healthy nutrition



# Yara will prioritize strategic and value-creating investments in US clean ammonia

Type	Project	CO2 Capture	Yara volume <sup>1</sup>	Type	Yara capex <sup>3</sup>	Start of production
Blue ammonia	<b>Project YaREN<sup>2</sup></b> North America, Texas, Ingleside Partnership with Enbridge	~95%	1.2 – 1.4 mt	50% stake and full offtake	1.3 – 1.45 bn	2027 – 2028
	<b>New Blue Ammonia<sup>2</sup> Project</b> North America, TBD	~95%	0.8 – 1.0 mt	Majority stake	1.8 – 2.0 bn	2028 - 2029
	<b>Sluiskil CCS<sup>2</sup></b> Netherlands	~60%	~0.4 mt	100% owned	~0.2 bn	2025 - 2027

## Green ammonia

- ✓ Developing a portfolio that will enable and position Yara's transition to full decarbonization over time.
- ✓ Pilot projects in execution in Norway and Australia to prepare for subsequent industrial scale-ups
- ✓ Full industrial scale-ups when technology is sufficiently matured and required financial frameworks are in place

The portfolio of asset back supply will be complemented by additional volumes from third party sourcing



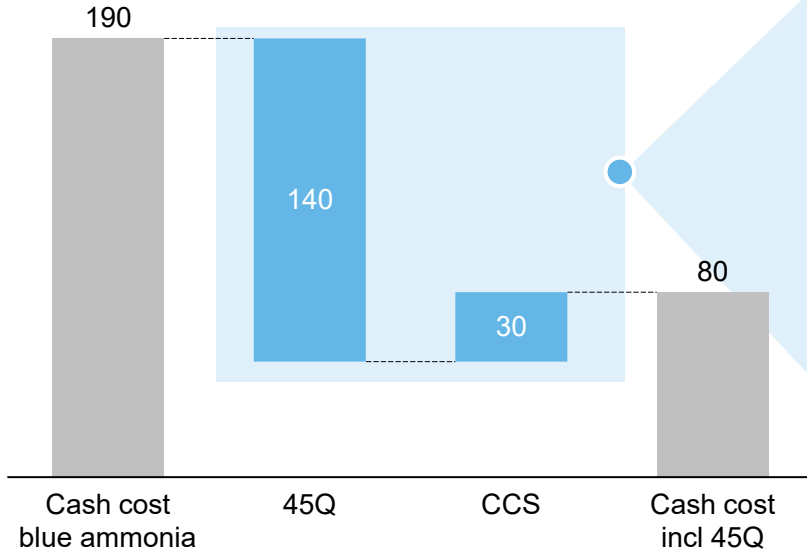
1) Offtake available to Yara  
2) Subject to final investment decision

3) In USD, excluding potential lease classification of offtake agreements

# Strong US clean ammonia project economics

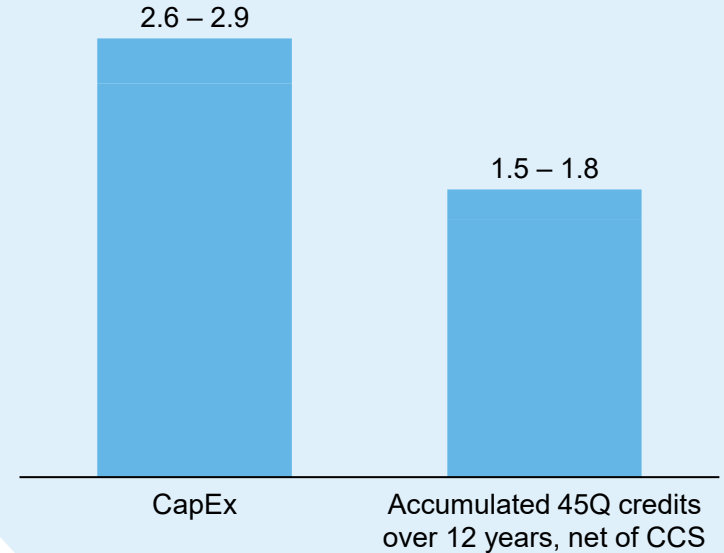
## Strong federal incentives in the US for sequestering CO2

Ammonia cash cost<sup>1</sup>, USD/ton, illustrative



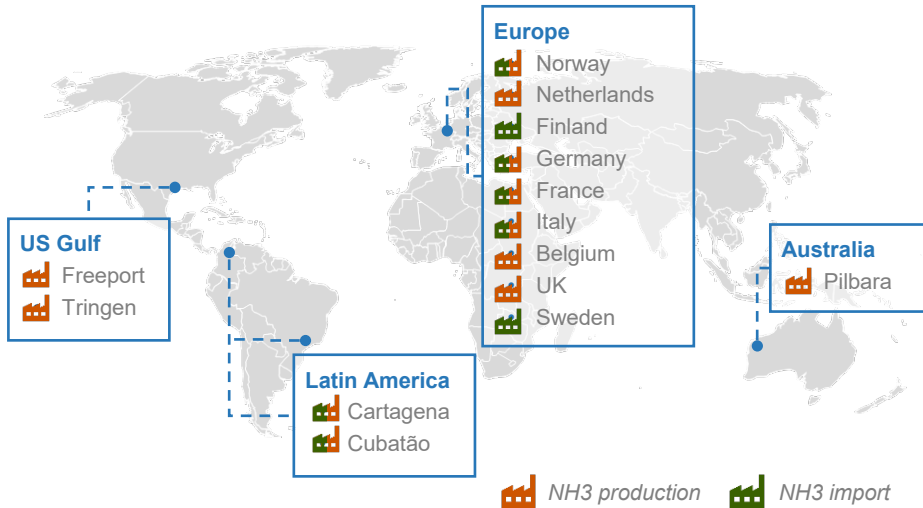
## The accumulated 45Q credits benefit is substantial

USD billion, illustrative example<sup>2</sup>



# US ammonia investments are complementary to Yara's European footprint

## Yara current ammonia footprint is flexible



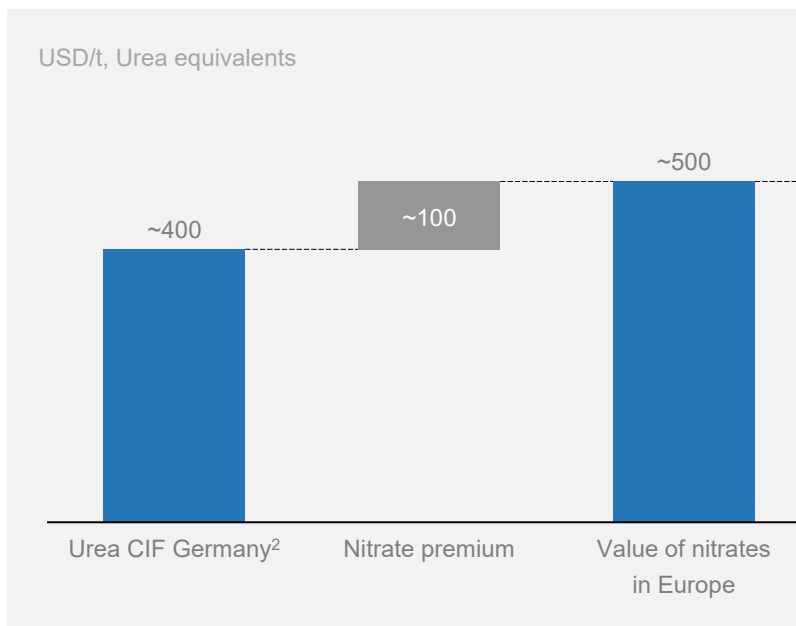
## Creating opportunities for Yara to:

- 1) Fuel parts of the EU production with import of low-carbon ammonia at competitive cost
- 2) Diversify Yara's energy position, with increased exposure to the US market
- 3) Decarbonize nitrate and NPK production

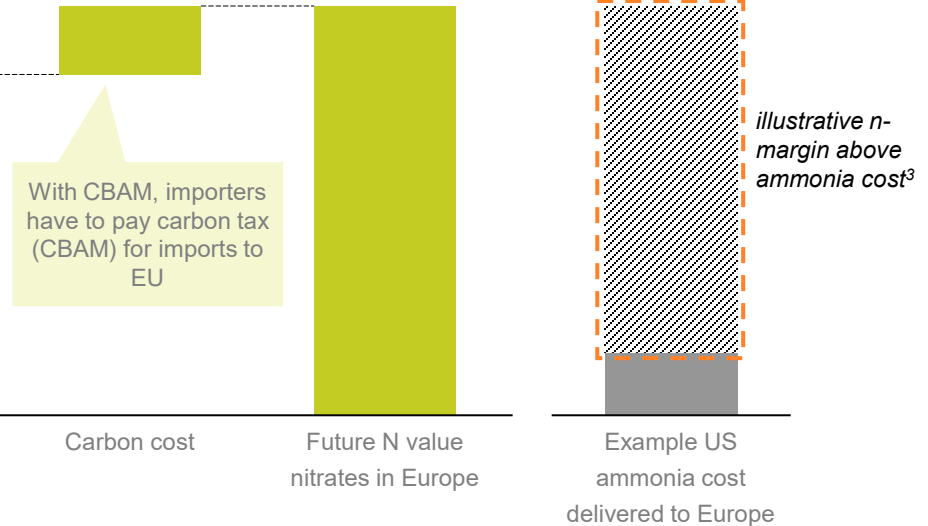
70% of Yara assets in Europe are flexible on ammonia source

# Strong value creation in European nitrate upgrade position

## Historical (past 10 years): nitrate premium above urea<sup>1</sup>



## Future scenario: profitable decarbonization through US ammonia



- 1) Historical values for period season 2012/13-2021/22, based on market publications
- 2) Urea Granular FOB Egypt + 50 USD/t in transport
- 3) N-margin above ammonia cost before upgrading cost and freight cost to market

**Scenario assumptions:** average historical nitrate premium above historical urea price, carbon cost 100 USD/t CO<sub>2</sub> (approx. 1 tonne CO<sub>2</sub> per tonne urea), cost of ammonia from US based on 5 USD/MMBtu \* 30 + 50 USD/t other cash cost, - 150 support in IRA plus 50 USD/t NH<sub>3</sub> freight to Europe

# Capital allocation - key messages

- Capital allocation policy maintained, based on BBB / Baa2 credit rating target
  - Annual average capex at 1.2 BUSD max in real 2022 terms, on a net basis including portfolio optimization and equity funding
  - Fixed cost target to beat inflation in core business (excluding special items and write-downs/one off effects)
- Viability of YCA minority divestment confirmed, timing postponed due to highly accretive project portfolio currently undervalued, and limited cash outlays needed before 2025
- Increased focus on divesting non-core assets, where there is accretive conversion into prioritised growth segments
- Conservative M&A strategy, focused on smaller bolt-on acquisitions

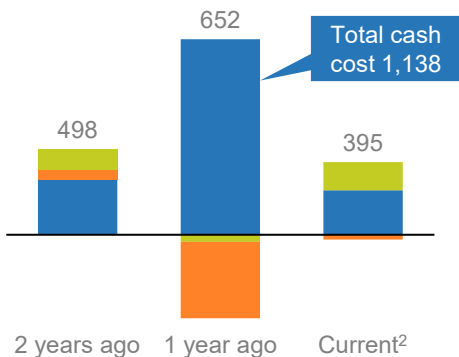


# Operating environment: energy volatility and strong urea supply currently impacts margins, but healthy farmer incentives and declining supply longer term

## Upgrading margin<sup>1</sup>

Average September northwest Europe price  
USD per tonne

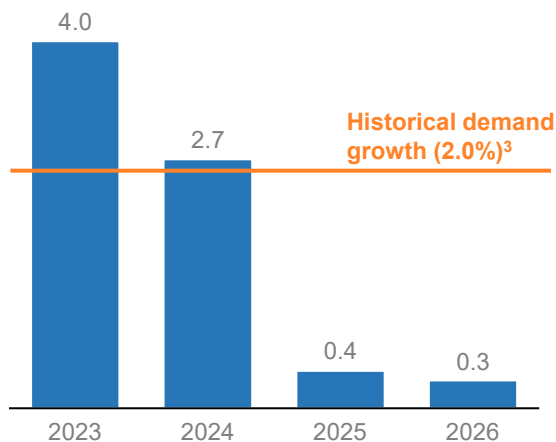
■ NH3 to urea margin ■ Cash cost (urea)  
■ Gas to NH3 margin



## Declining growth in global urea capacity

Million tonnes urea

■ Supply



## Improved farmer incentives from last year<sup>4</sup>

Cereal-to-urea price index, 2014-2016=100



1) Urea margin = Urea CFR NWE – (TTF\*22+40USD), NH3 to urea= Urea CFR NWE - NH3 CFR NWE\*0.58

2) Average prices September 2023

3) Growth calculated based on last 10 years up to 2022, equal to ~2.6 mt/year, from 2022 baseline (IFA) of 129.2 mt (global production + China trade). Trend growth rate held back by supply restrictions in 2021 and 2022.

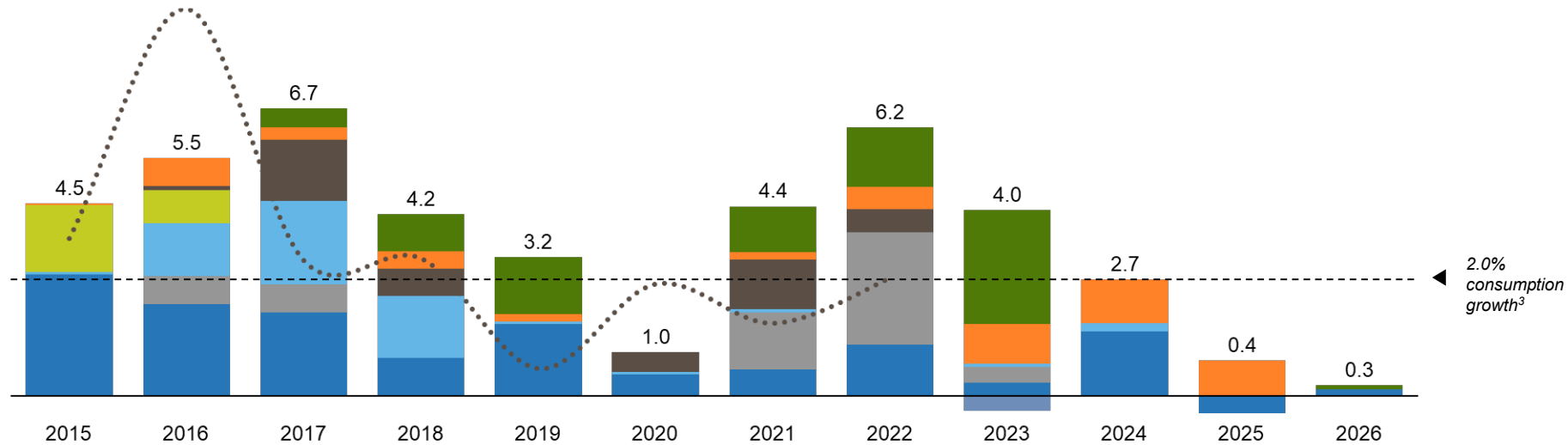
4) Index: urea price/ cereal price, with 2014-2016 = 1. Sources: International publications for urea fob Arab Gulf, FAO for cereal price



# Peak of urea capacity additions is behind us

Global urea capacity additions ex. China <sup>1,2</sup> (mt)

■ India 
 ■ Russia 
 ■ Iran 
 ■ Algeria 
 ■ USA 
 ■ Nigeria 
 ■ Australia 
 ■ Others 
 ... Production



1) Urea projects assessed as "probable" by CRU.

2) Several projects under development scheduled for completion after 2026, including in Australia and Russia, with unclear timing.

3) Growth calculated based on last 10 years up to 2022, equal to ~2.6 mt/year, from 2022 baseline (IFA) of 129.2 mt (global production + China trade). Trend growth rate held back by supply restrictions in 2021 and 2022.

Source: CRU September 2023

