



## **Our Operations**

- Multi billion-dollar processing precinct
- Yara Pilbara Fertilisers 850,000tpa ammonia plant
- 5% of global tradeable ammonia
- Exports to Korea, Taiwan, Thailand,
   Japan
- Yara Pilbara Nitrates 330,000tpa technical ammonium nitrate plant



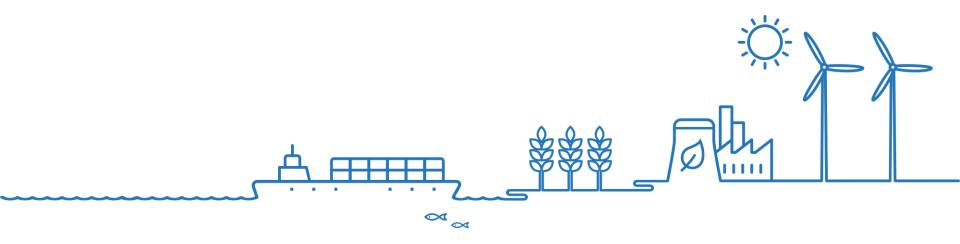
### **Natural Gas**

- Gas is the feedstock for our production process.
- Second biggest industrial user of domestic gas in WA, approximately 8% of demand.
- Average demand of 90 terajoules per day, 33 petajoules per year.
- Represents 70-80% of production costs.
- Remains critical to operations for the next 25 years.





### **Emissions Reduction**





## Heroya Renewable Hydrogen Plant









## **Project Yuri**

- One of the first off-grid power to hydrogen installations at industrial scale
- ARENA and WA Government support
- Demonstrates clean ammonia value chain
- 18 MW Solar PV System
- 10 MW Electrolysis unit
- Renewable hydrogen from renewable electricity generated on-site





## **Northern Lights**

- World's first cross-border CO<sub>2</sub> transport and storage infrastructure
- Draws on Norway's decades of experience in CO<sub>2</sub> storage
- Permanent storage in reservoir 2,600 metres under seabed
- Yara Sluiskil will capture 800,000 tons of CO<sub>2</sub>
   from ammonia production each year for Northern Lights



## **Carbon Capture and Storage**

- Yara Pilbara emits 1.6 million tonnes of CO<sub>2</sub> equivalent per year.
- CCS a swift solution to cut emissions by two thirds.
- Focus on depleted reservoirs off WA coast.
- Signed MOUs with major service providers.
- Circular economy storing carbon in the same reservoirs it came from.





# Several building blocks needed to fit together for the clean ammonia opportunity to reach its full potential

Regulatory environment

#### Market

### **Technology**

#### Infrastructure



A global adoption of "fair" CO2
prices or subsidies supporting
low-carbon fuels; "true" carbon
pricing or forceful regulation
required to sufficiently incentivize
the transition







Users in key end-markets will shift towards ammonia – or be "pulled" by their final customers



The technologies required to support the green "hydrogen economy" will be efficiently developed and scaled to make green cost competitive



The required infrastructure and operational support will be developed in line with market growth





Knowledge grows

## **Thank You**

