

**PART OF  
A BETTER  
FUTURE**



## **CARBON, CAPTURE AND STORAGE**

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## INTRODUCTION

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### Climate strategy and emissions data

Further information as to Woodside's climate strategy, including references to "lower carbon" as part of that strategy, is set out in Woodside's Climate Report 2021 available on the Woodside website at <https://www.woodside.com/sustainability/climate-change>. The glossary and footnotes to this presentation provide further clarification of "lower carbon" where applicable.

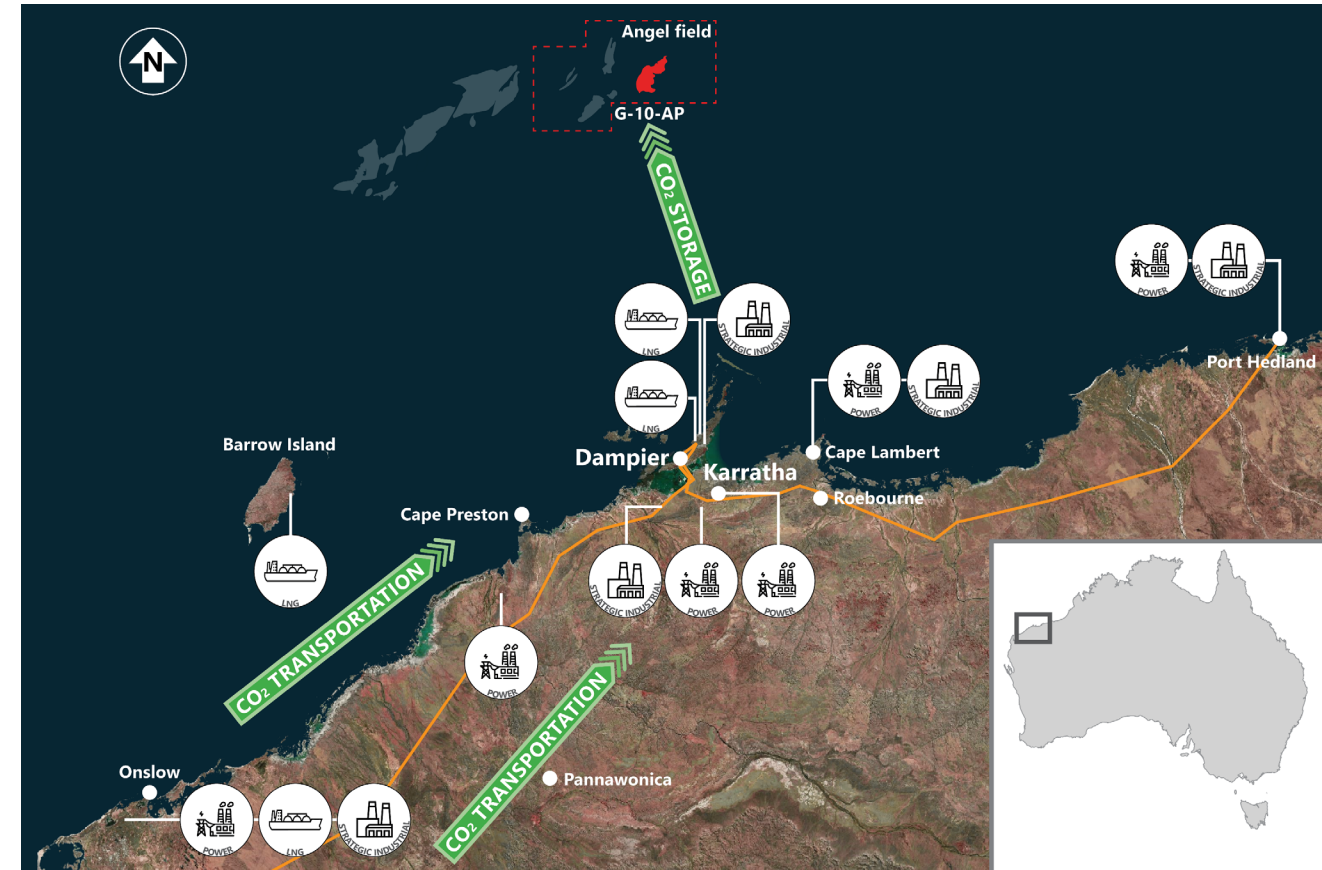
All greenhouse gas emissions data in this presentation are estimates, due to the inherent uncertainty and limitations in measuring or quantifying greenhouse gas emissions.

Woodside "greenhouse gas" or "emissions" information reported are Scope 1 GHG emissions, Scope 2 GHG emissions, and/or Scope 3 GHG emissions. For more information on emissions data refer to Woodside's Climate Report 2021 available on the Woodside website at <https://www.woodside.com/sustainability/climate-change>

# Northern Carnarvon Carbon Capture & Storage (CCS) at a glance

- **Large-scale multi-user CCS hub near Karratha:**
  - **Storage:** initially targeting the now depleted Angel gas field
  - **Capacity:** initially up to 5 MTPA, with potential for future phases
  - **Policy:** supportive State and Federal policies emerging
- Well-positioned to:
  - **aggregate emissions from various existing industrial sources**
  - **facilitate new lower-carbon businesses**
- **Angel has world-class CCS characteristics:**
  - High quality reservoir and seal, proven trap, large storage capacity
  - Large aquifer, pressure management requirement unlikely
- **Reduced risk and appraisal requirement** due to extensive data

<sup>1</sup> Subject to further technical and market studies

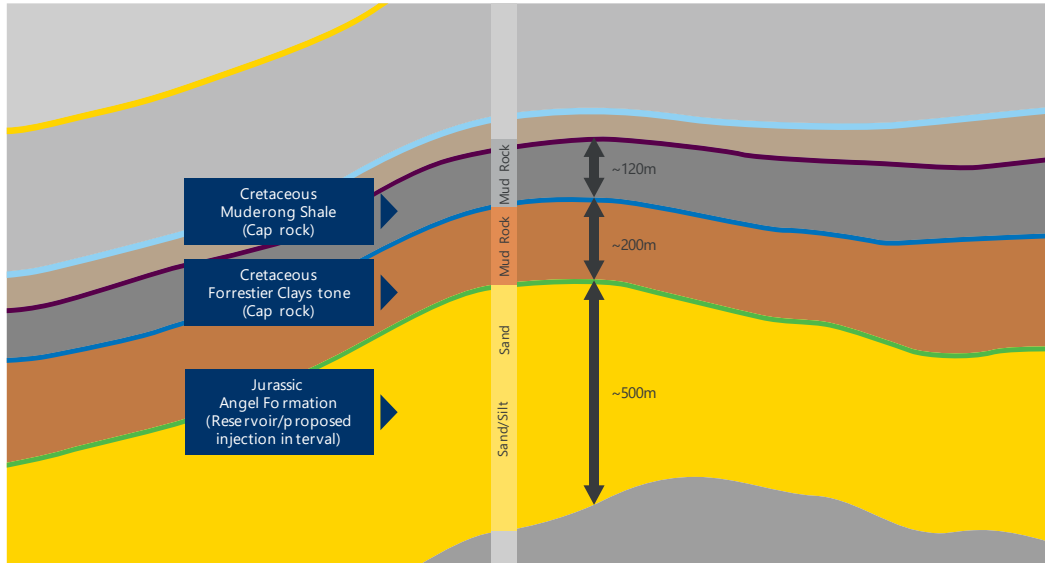




# A UNIQUE DECARBONISATION SOLUTION

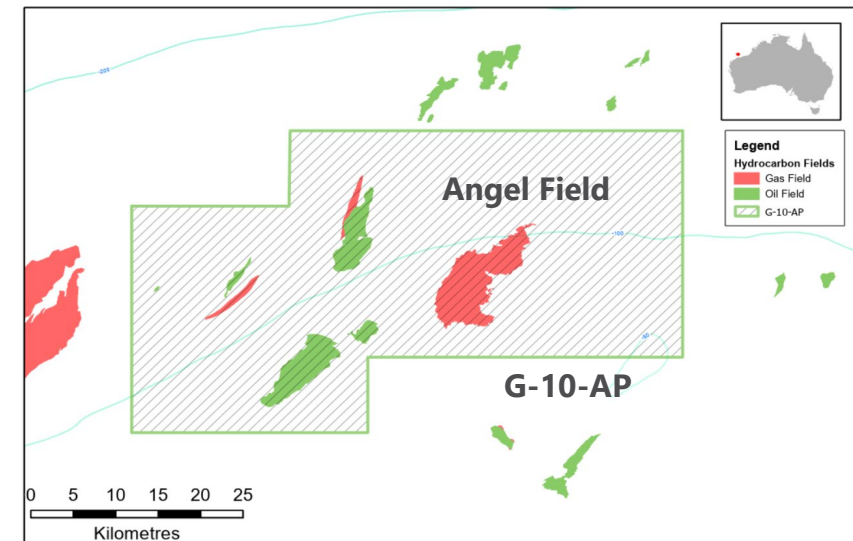
## A high quality reservoir

- Our understanding of Angel and its performance is extensive
- Angel was discovered in 1971 with **first production in 2008**, cessation in 2020.
- Geology is expected to be well suited for CO<sub>2</sub> sequestration:
  - high quality reservoir (**NTG: 0.9,  $\Phi$ : 17%, k: 380 mD**)
  - proven trap and seal, large storage capacity likely
  - **strong regional aquifer**, very little pressure depletion since start-up



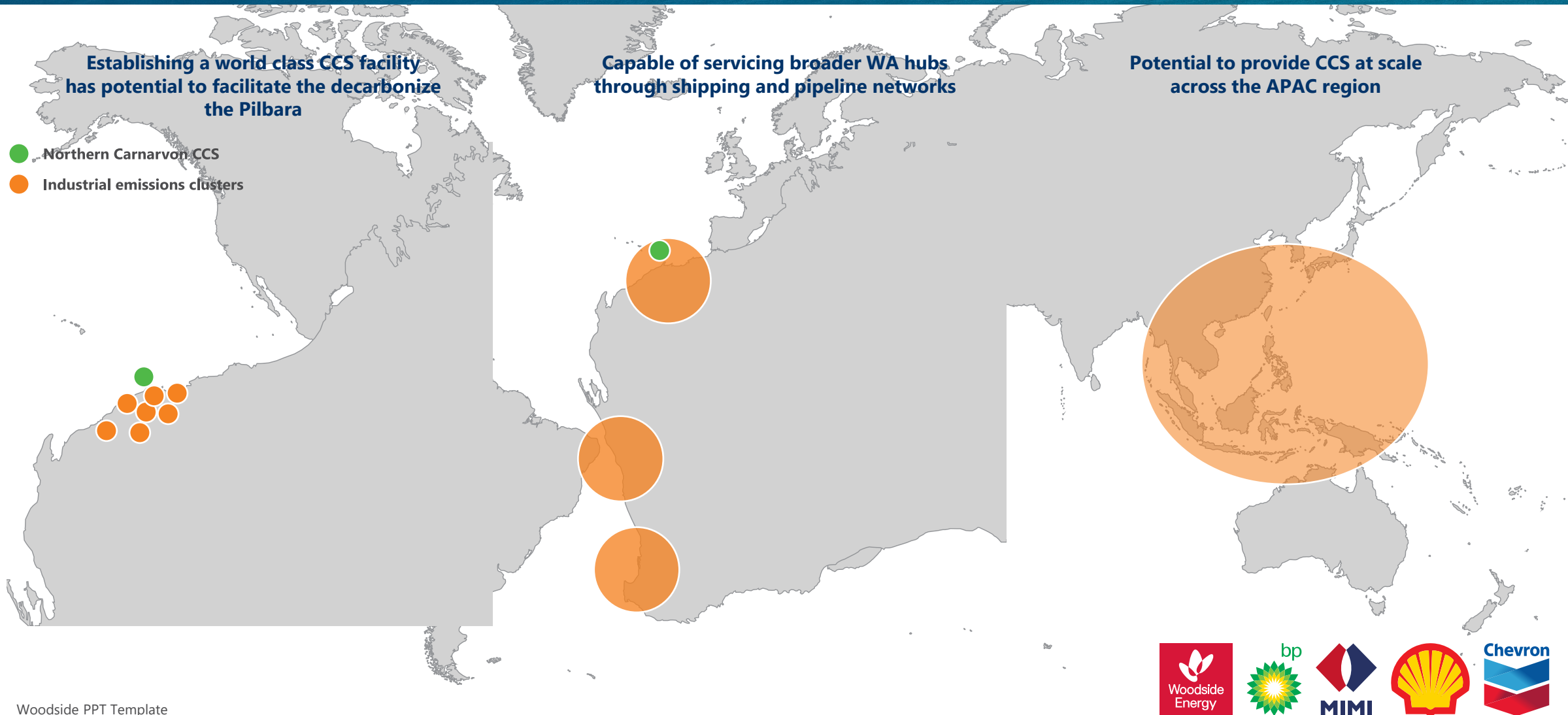
### Fast facts

Status	Produced Gas Field
Distance to Shore / WD	115km / 80m
Reservoir Depth / Pressure	2700m / 3900psi
Reservoir / Seal	Jur. Angel fm / L.Cret Forrester Claystone
Trap Type	4-way closure



## A UNIQUE DECARBONIZATION SOLUTION

# Local solution with global potential



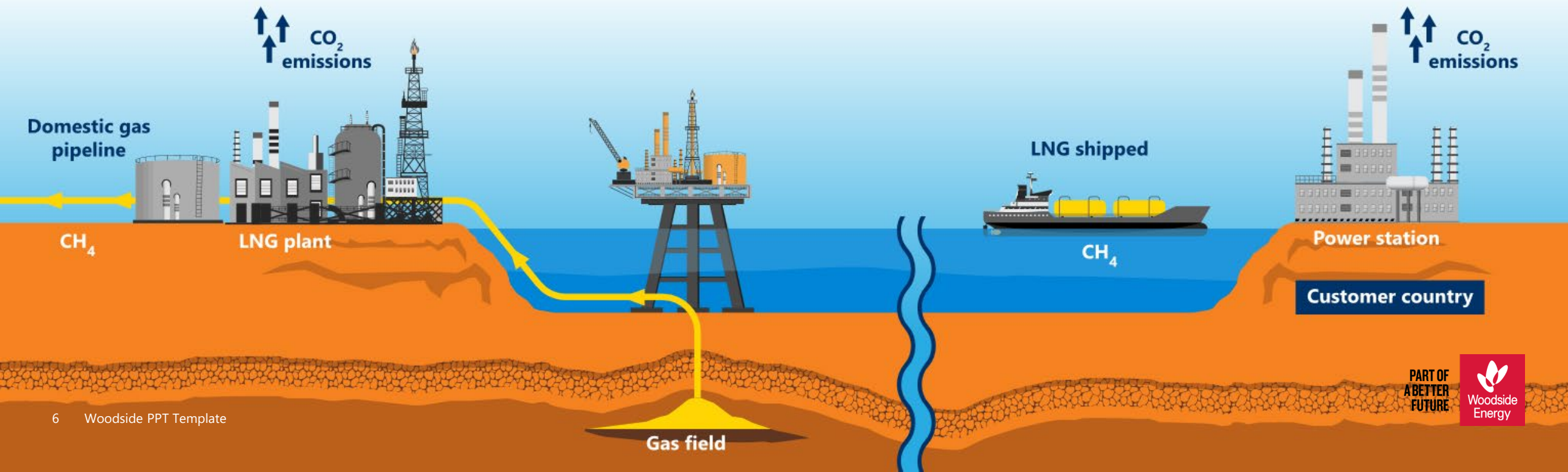


# A UNIQUE DECARBONISATION SOLUTION

## Current LNG Industry

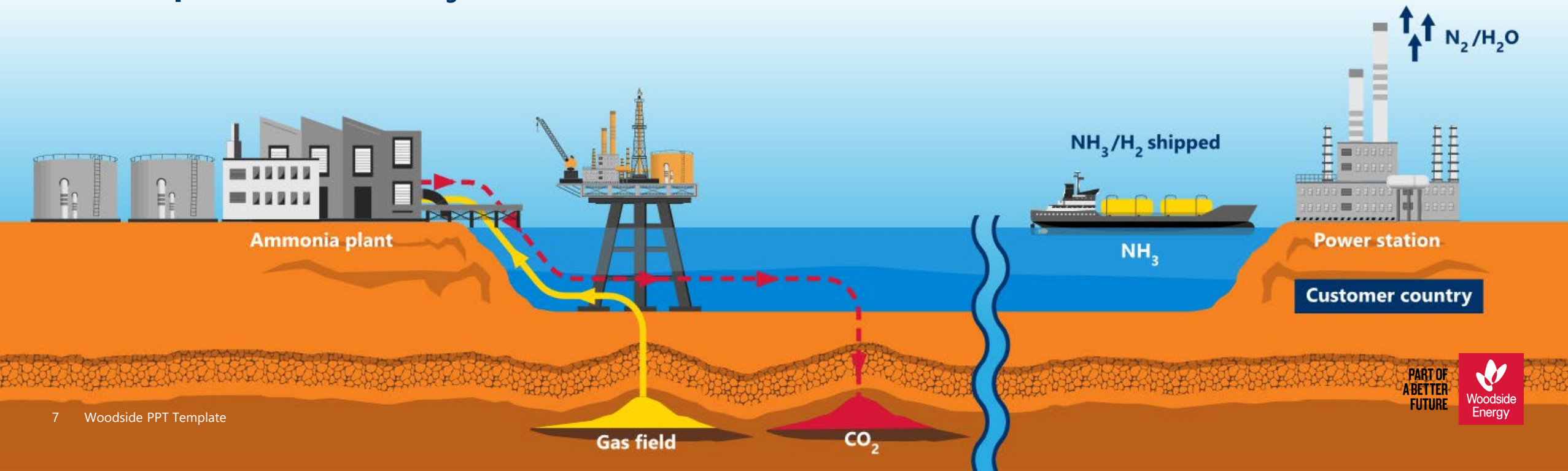
Potential to capture some emissions

Potential to capture some emissions and ship CO<sub>2</sub> back to a CCS sink



## Potential New Energy Industry: Ammonia/ Hydrogen

**CO<sub>2</sub> capture inherent in the production of NH<sub>3</sub>**





## OUR EXPERIENCE

# We are recognised industry operators with global experience

