



HYDROGEN AT ADNOC

JCCP JANUARY 2022

ABU DHABI NATIONAL OIL COMPANY

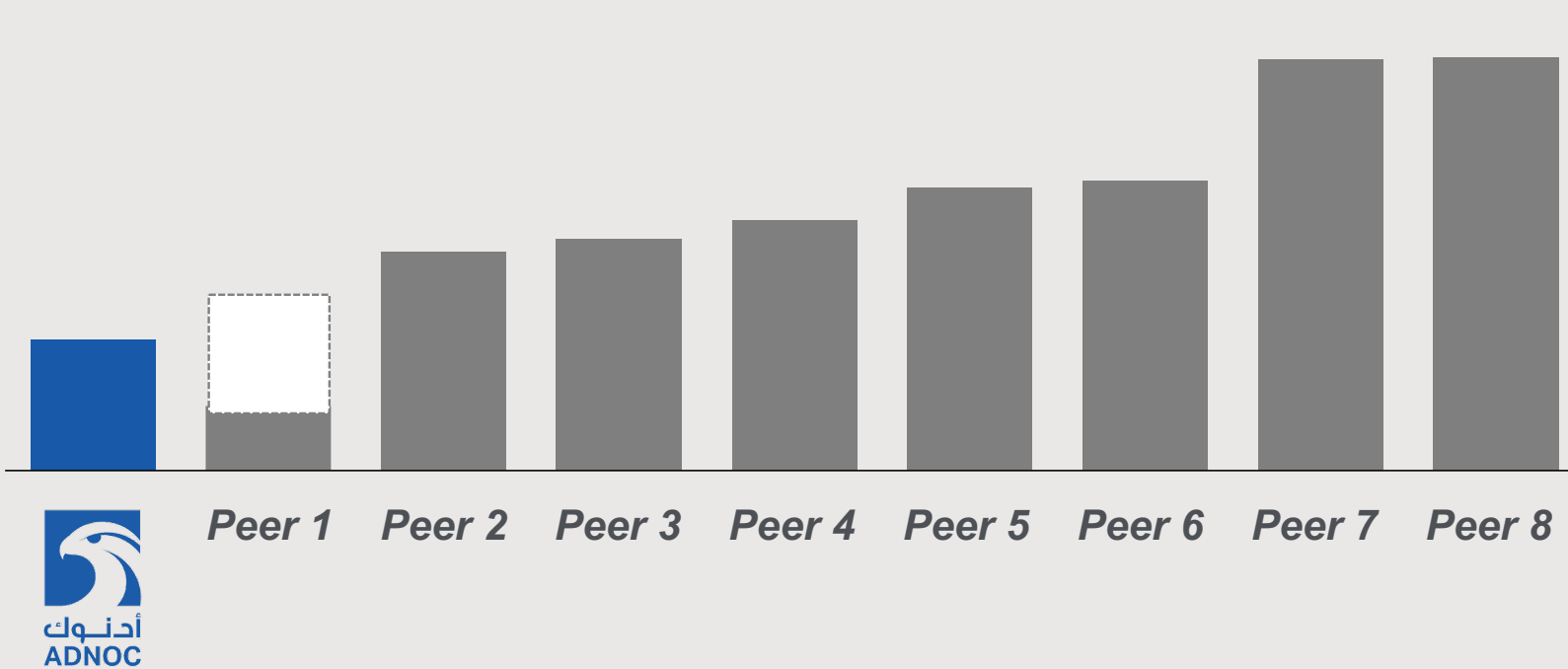


WE ARE WORKING TO FURTHER ENHANCE OUR WORLD-LEADING CARBON FOOTPRINT

ADNOC already a world class low-carbon oil & gas producer...

...with strong 2030 ambitions

Total emissions/total production (2019)
Mt CO₂e/billion boe



-25%
GHG intensity by 2030

5 Mtpa
CO₂ captured vs. 0.8 Mtpa today

ADNOC is one of the **lowest carbon intensity O&G producers**, providing a **low carbon feedstock for blue H₂**

OUR AIM IS TO BUILD A WORLD SCALE HYDROGEN BUSINESS WITH INTERNATIONAL PARTNERS & ALLIANCES

- 1** **The hydrogen business** fits perfectly with ADNOC's natural gas advantage and infrastructure capabilities as well as its strategic ambitions of becoming a **global hydrogen leader**
- 2** **Blue hydrogen is an important bridge** to a green hydrogen economy until globally enough green hydrogen can be produced in a cost competitive manner
- 3** In the **short- and medium term**, ADNOC will be leveraging its unique assets, capabilities, infrastructure & relationships to develop and export competitive blue hydrogen and derivatives
- 4** In parallel, ADNOC is developing **green hydrogen**.
- 5** **ADNOC's key focus market is Japan** and we are excited to work with Japanese partners to **jointly develop business opportunities**

TO SUPPORT OUR AMBITIONS, WE ARE BUILDING A WORLD-CLASS LOW CARBON HYDROGEN BUSINESS



2021: Blue ammonia test cargos

Produced by capturing CO₂ at existing Fertil plant and injecting in EOR

Commercial sales already realized to customers in Japan & South Korea for range of industrial and energy applications



2025: 1 Mtpa blue ammonia greenfield project

Target FID in 2022 with COD in 2025, supplying 1 Mtpa blue NH₃

Equity partners are Mitsui (Japan) and GS Energy (South Korea)

Ongoing lifecycle assessment to define clear carbon footprint – incl. use of CO₂ in EOR

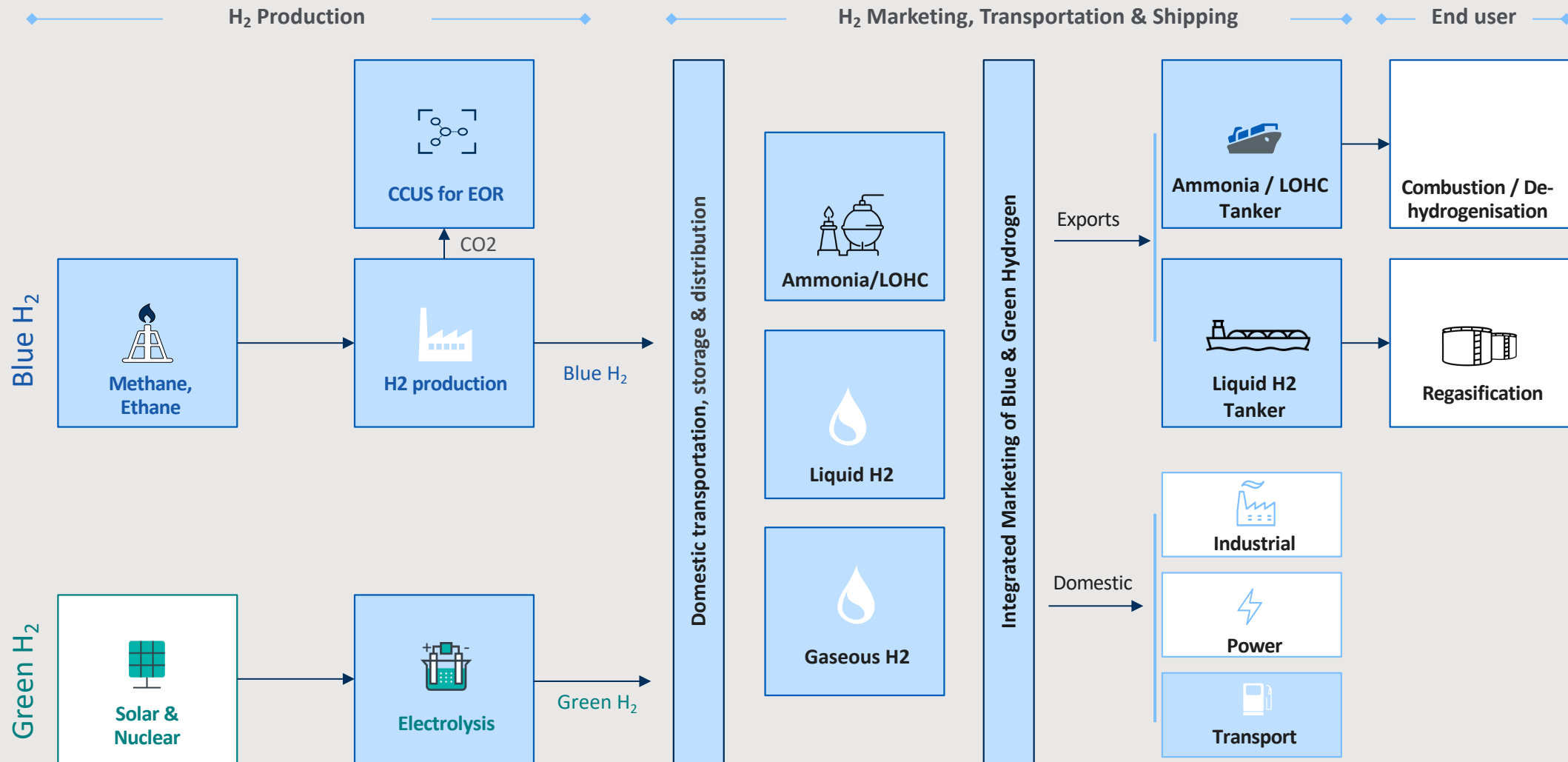


Green H₂ as announced JV between MASDAR, TAQA & ADNOC

Joint effort to make Abu Dhabi a low-carbon H₂ hub

Assessing range of domestic & export opportunities for green H₂

UAE LOOKS TO PARTICIPATE ACROSS THE FULL VALUE CHAIN WORKING WITH PARTNERS & CUSTOMERS





Q&As