



CCS & NEW ENERGIES



WILLIAM GU
Executive Vice-President



INVESTOR DAY 2024

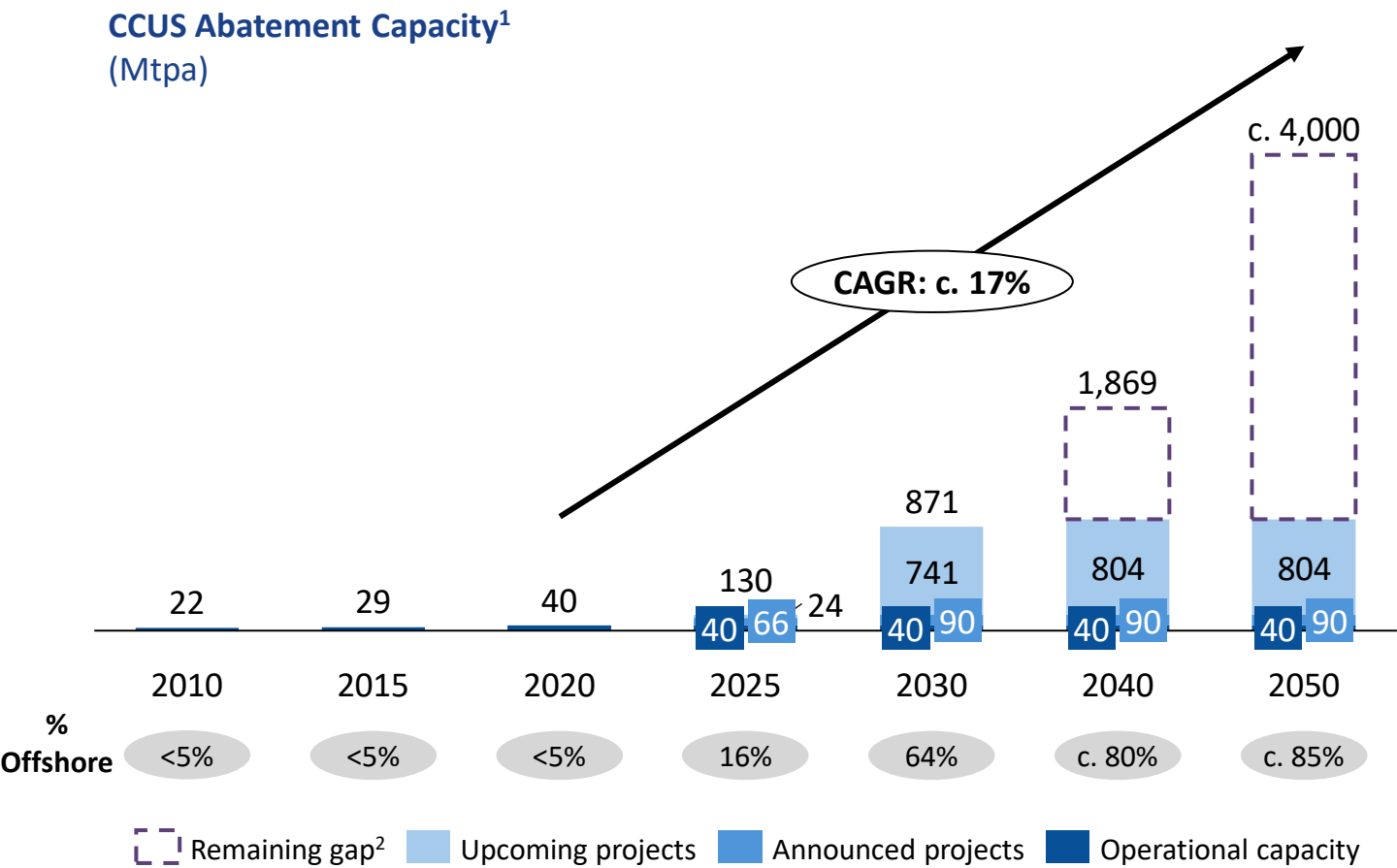
Towards Profitable and
Resilient Growth

15 March 2024



CARBON CAPTURE, STORAGE & INJECTION

Global CCUS capacity expected to grow by 17% p.a. to c. 4,000 Mtpa by 2050



CCUS Development

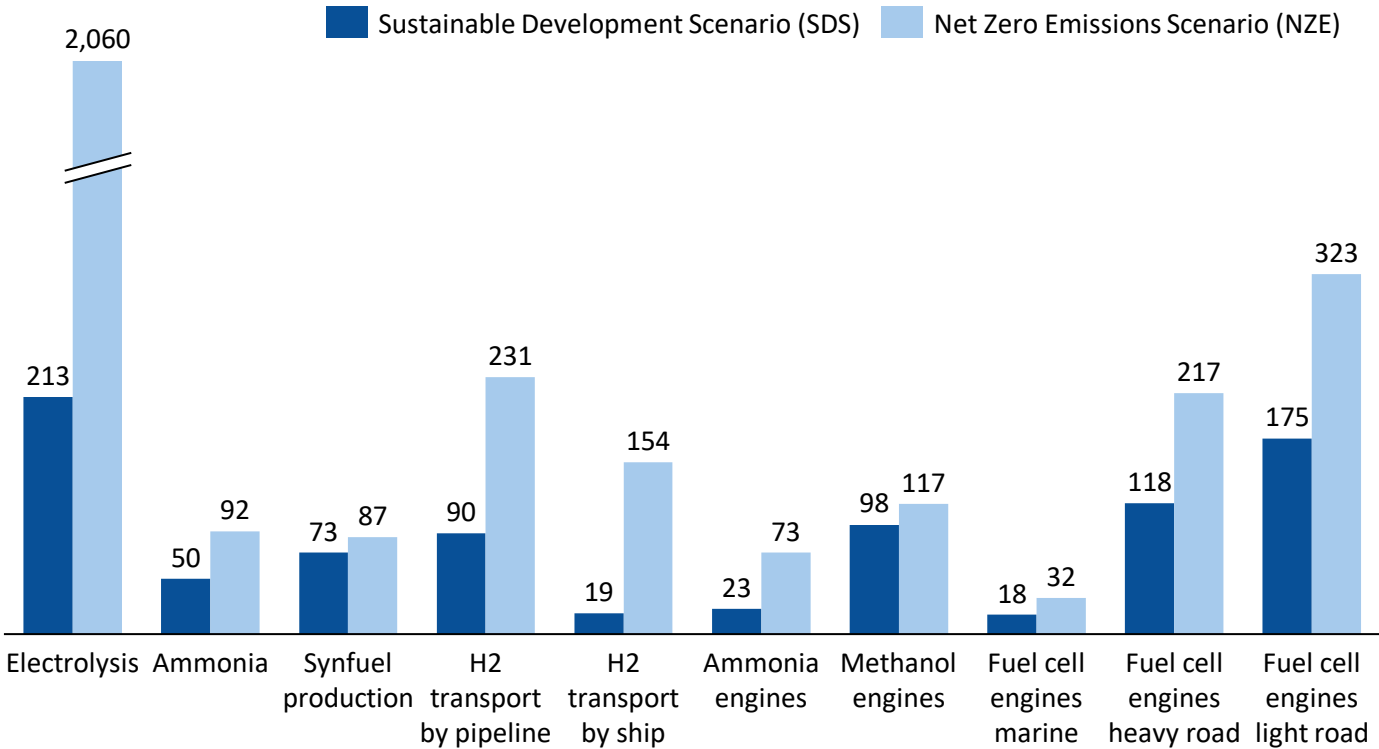
Prominent decarbonisation lever for point-emission industries

Offshore sequestration of CO₂ sources around the US, Europe, and Asia Pacific

KEEPING AN EYE ON NEW ENERGIES

Global Power-to-X market is estimated to reach between c. S\$0.9t to S\$3.4t in 2035

Estimated Global Market Potential for Power-to-X in 2035 (S\$b)



New Energies Economy

Expansion in offshore wind will fuel growth trajectory of offshore & nearshore Power-to-X market

Proliferation of H₂ and NH₃ molecules will supplement emergence of corresponding transport vessels, receiving, storage and bunkering terminals, and new power plant businesses

NEW ENERGIES: HYDROGEN AND AMMONIA

Seatrium working with multiple consortium partners to develop future hydrogen value chain



Liquid Hydrogen Carrier¹

Develop 150,000 m³ capacity large-scale LH₂ carrier for maritime transport



Hydrogen fuel cell²

Design H₂ fuel cell and retrofit to provide auxiliary power for RoRo



Ammonia Bunkering

Develop NH₃ bunkering ecosystem in port of Singapore



MAERSK



Mærsk Mc-Kinney Møller Center
for Zero Carbon Shipping

Fleet Management Limited
A Caravel Group Company



K LINE
KAWASAKI KISEN KAISHA, LTD.

Pioneering designs with the potential to transition from onshore to offshore and marine

CCS & NEW ENERGIES BUSINESS AND PRODUCT DEVELOPMENT

Explore new business models and make selective investments across CCUS / new energies value chain

CCS

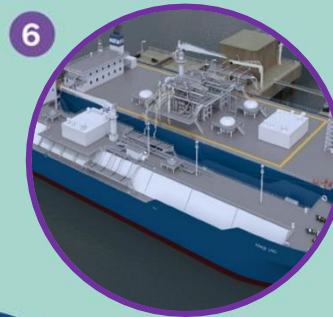
1. Carbon Capture Storage as a Service (CCSaaS)
2. Floating CO₂ injection
3. Blue Power Hub
4. Shipboard carbon capture

- CCS
- New energies



New Energies

5. H₂ production floater
6. Energy hub (NH₃/H₂/Electrofuels)
7. NH₃ bunker vessel



SEEDING TOMORROW'S GROWTH

1

DEVELOP PROPRIETARY TECHNOLOGY

Innovate and develop technological expertise aligned with current market needs

2

BUILD STRATEGIC PARTNERSHIPS

Accelerate product pilot and commercial deployment

3

ESTABLISH EARLY POSITION AND CREATE VALUE

Offer end-to-end solutions and explore new business models

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