

Enabling Transboundary CCS in the Asia Pacific

Presentation for "Japan CCS Forum 2025" hosted by the Global CCS Institute

4th December 2025

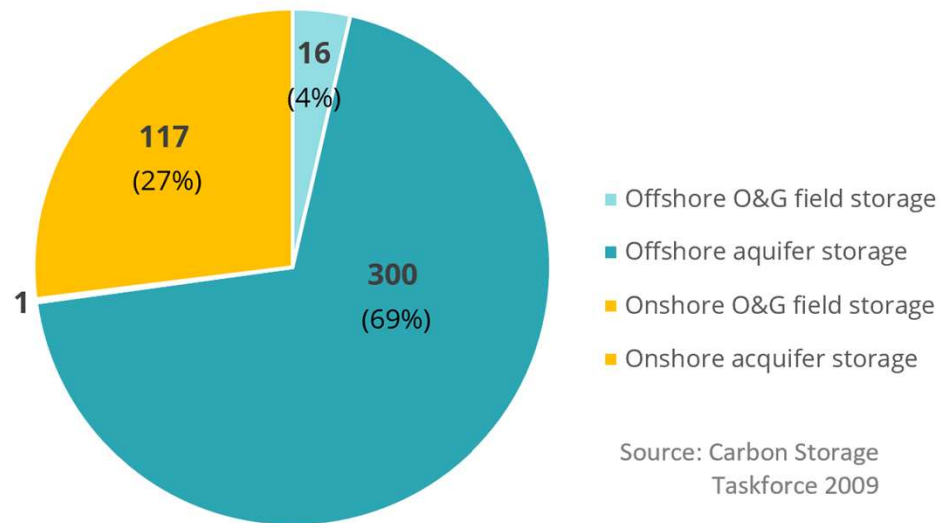
Content

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Why transboundary CO₂ storage in Australia?

- ⊙ Australia has ~870 years* net emissions worth of storage.
- ⊙ CO₂ storage acreages accessible, with abundant technical information.
- ⊙ Australia is a party of the London Protocol, with well established CCS legislation and regulation.

Total 434 Billion Tonnes

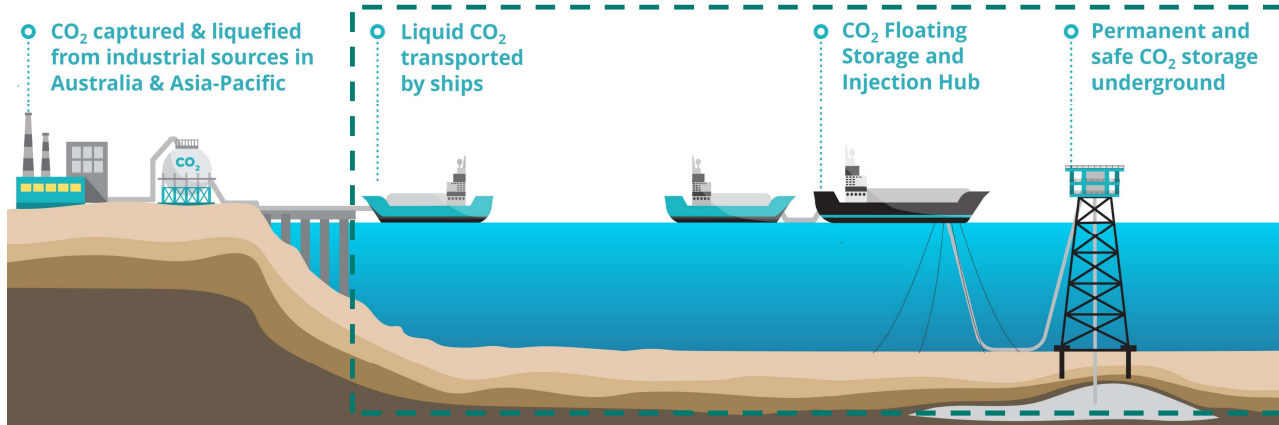


* Australia's 2020 net emissions was ~500 million tonnes CO₂-e as per "Australia's NDC Communication 2022" (Commonwealth of Australia)

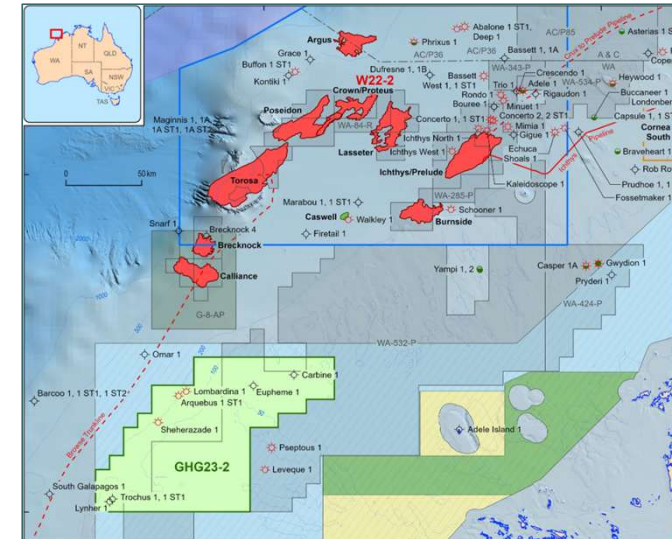
Why deepC Store?

- CO₂ transport & storage developer
- Offtakes CO₂ via ~ 3 MTPA **"CStore1"**
- Owens 2 Australian offshore CO₂ storage permits > 1 billion (giga) tonnes capacity
- Agreement with J-Power to become significant JV participant
- Agreement with MOL & T.EN to build and operate CStore1
- Advances low-pressure liquefied CO₂ R&D with FEnEx CRC

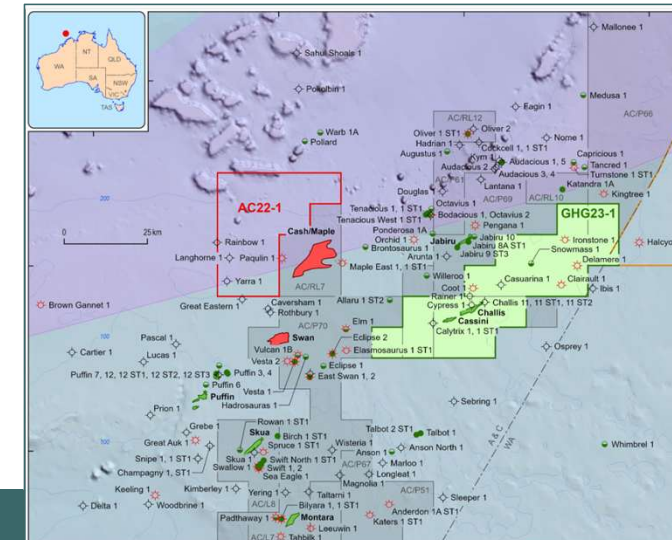
Image of CStore1



G-14-AP: Browse Basin

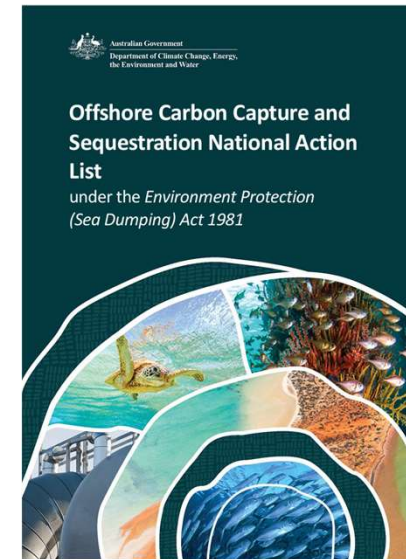


G-13-AP: Bonaparte Basin

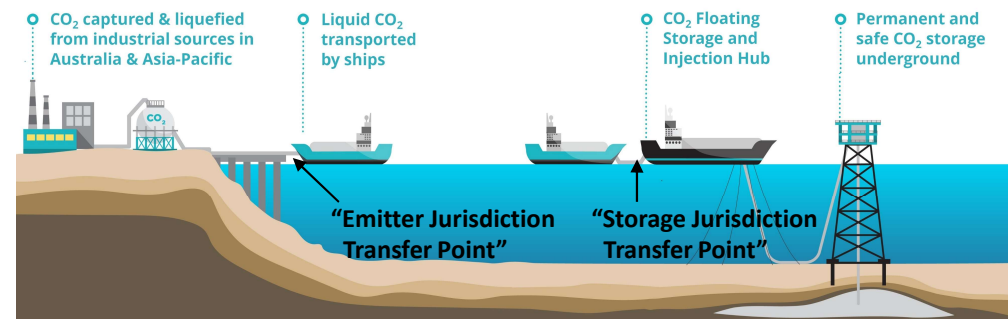


What challenges do we address together?

- ⊙ **Execution of bilateral agreement with partner nations**
- ⊙ **Harmonisation of regulation across transboundary CCS value chain***
 - National Action List (CO₂ specification)
 - Physical point(s) to subtract CO₂ emissions (“Transfer Point”)
 - Attribution of carbon credits
 - Methodology to calculate quantity of CO₂ emissions reduced
 - Data sharing for CO₂ emissions reduction & carbon credits
 - CO₂ Measurement, Reporting & Verification (MRV)
- ⊙ **Improved social acceptance of transboundary CCS**
- ⊙ **R&D for CCS unit cost reduction**



Example of Ship-transportation CCS “Transfer Point”



* Courtesy to CCUS Network Australia for highlighting key matters to address in bilateral agreements / arrangement and to aim harmonizing in APAC.

Takeaways

- ◉ Australia is an attractive jurisdiction for CO₂ storage.
- ◉ dCS is developing > giga tonne CO₂ storages in Australia to enable transboundary CCS for Japan
- ◉ Challenges to address together:
 - execution of bilateral agreement;
 - harmonisation of regulation;
 - improved social acceptance; and
 - R&D for CCS unit cost reduction
- ◉ Ongoing collaborative effort among governments, CO₂ suppliers, CCS project proponents, & industry is essential to enable transboundary CCS in APAC.



Thank you

deepC Store Pty Ltd

ACN: 653 059 164

Address: Level 8, 167 St Georges Terrace, Perth WA 6000, Australiaa

deepcstore.com