

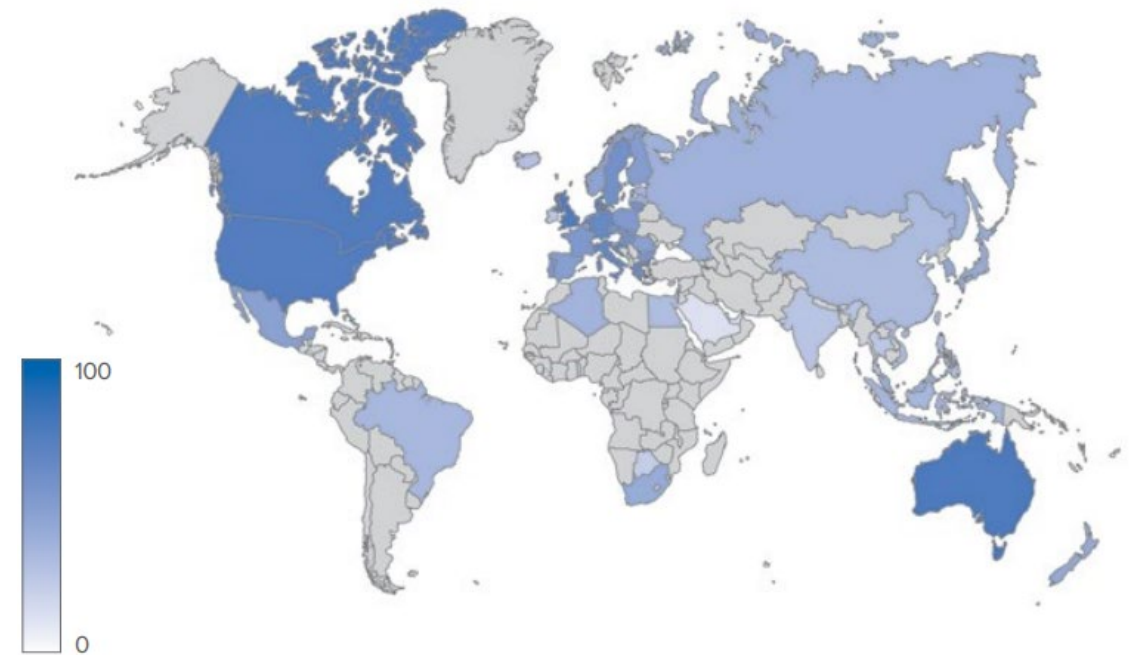
Streamlining and coordinating to scale-up CCUS

Brendan Beck | Director Net Zero Technologies

Australia has one of the most comprehensive set of CCUS legal and regulatory frameworks globally

- Commonwealth Offshore Petroleum and Greenhouse Gas Storage Act (2006)
- Barrow Island Act (2003) | covering the Chevron Gorgon Project
- State frameworks in place in Victoria (2008), Queensland (2009), and South Australia
- The Global CCS Institute ranks Australia number one globally for CCUS legal and regulatory

- CCS Legal and Regulatory Ranking | Global CCS Institute



Gaps remain presenting barriers to some projects and in some jurisdictions

- Frameworks yet to be established in Western Australia and Northern Territory
 - WA under development
- Application process under development for the Sea Dumping Act
- 2009 and 2013 London Protocol amendments not yet adopted | import and export of CO₂ for CCUS



Western Australia

Petroleum and Geothermal
Energy Resources Act 1967

[Incorporating the amendments proposed
by the Petroleum Legislation Amendment
Bill \(B\) 2023 Pt. 2](#)

Australian Government
Department of Climate Change, Energy,
the Environment and Water

Application form for a permit under the
Environment Protection (Sea Dumping) Act 1981
for dumping of carbon dioxide streams by carbon
capture sequestration at sea

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Inquiry into the into the 2009 and 2013 amendments to the 1996 Protocol to the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 (London Protocol)

On Wednesday, 30 November 2022 the Minister for the Environment and Water, Hon Tanya Plibersek MP asked the Committee to inquire into and report on the 2009 and 2013 amendments to the 1996 Protocol to the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 (London Protocol). The terms of reference can be found on the terms of reference webpage.

Anyone can make a submission to the Inquiry which addresses some or all of the terms of reference, by using the online system or by email. Submissions do not have a set format but should be prepared solely for the inquiry and should not be published prior to being accepted by the Committee. Further information about making submissions can be found on the making a submission to a committee inquiry webpage.

Submissions are requested by **Friday, 10 March 2023**.

About this inquiry

The Committee will inquire into the into the 2009 and 2013 amendments to the 1996 Protocol to the Convention on the Prevention of Marine Pollution by Dumping of Wastes and Other Matter, 1972 (London Protocol).

- Terms of Reference
- Submissions
- Media Releases
- Government Response
- Committee Membership

[Track Inquiry](#)

Inquiry Status

Accepting Submissions

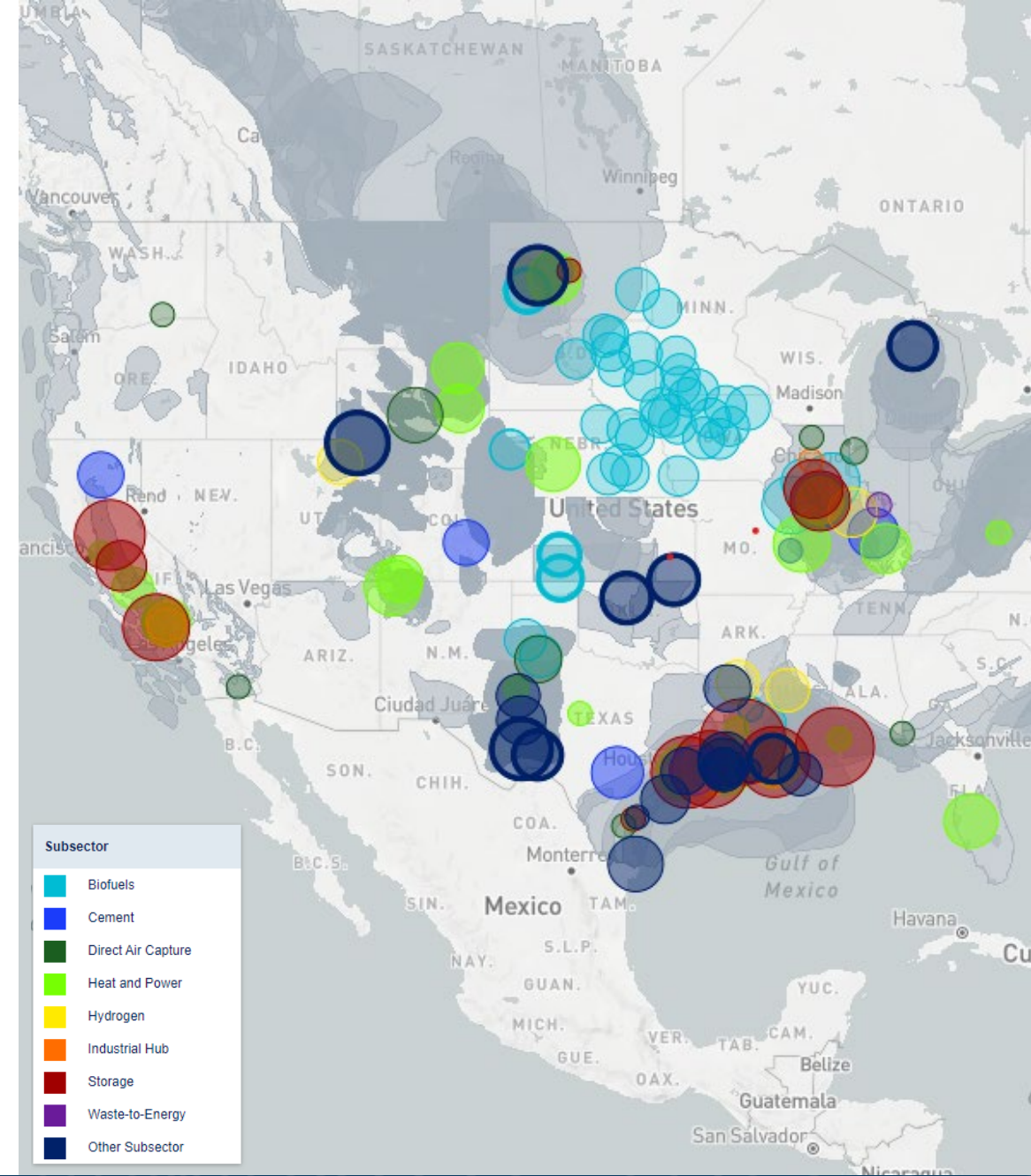
Streaming will be critical to fast-tracking CCUS deployment

- The Australian legal and regulatory landscape remains largely untested
- Flexibility needed to accommodate new project configurations and technology
- Amendments and revisions expected
- Duplication between jurisdictions and frameworks to be addressed
- Application/approval times will be critical
- Streamlining requires close collaboration between government and industry



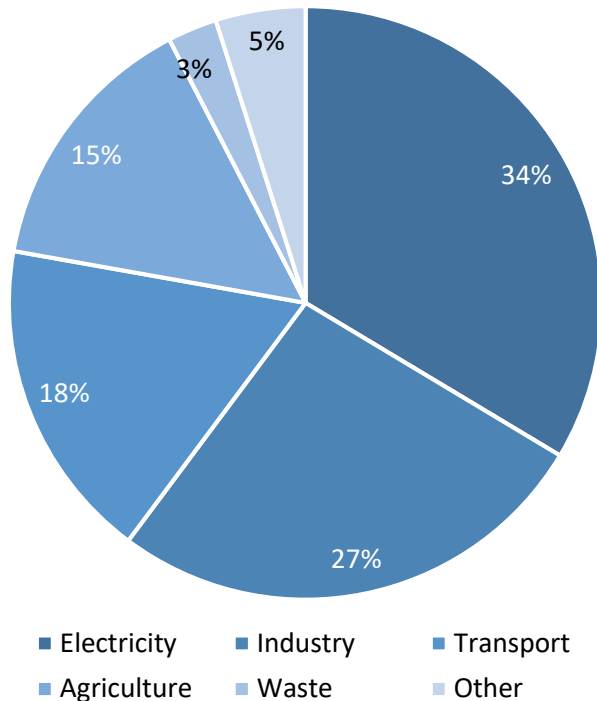
The global CCUS policy landscape is evolving quickly

- **United States** | US\$ 85/tCO₂ from industrial and power CCUS; US\$ 180/tCO₂ from direct air capture and storage
- **Canada** | C\$ 2.6 billion in tax credits; provincial support
- **Denmark** | EUR 5 billion in CCUS subsidies
- **United Kingdom** | GBP 20 billion for CCUS over 20 years

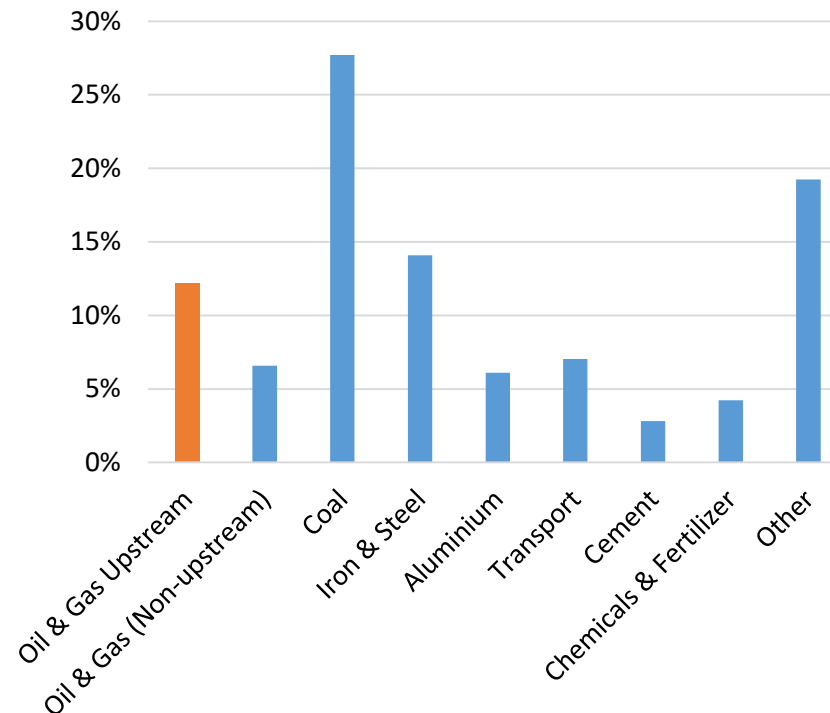


CCUS will be needed across the Australian economy

- Australia's CO₂ emissions by sector



- Australia's industrial CO₂ sources



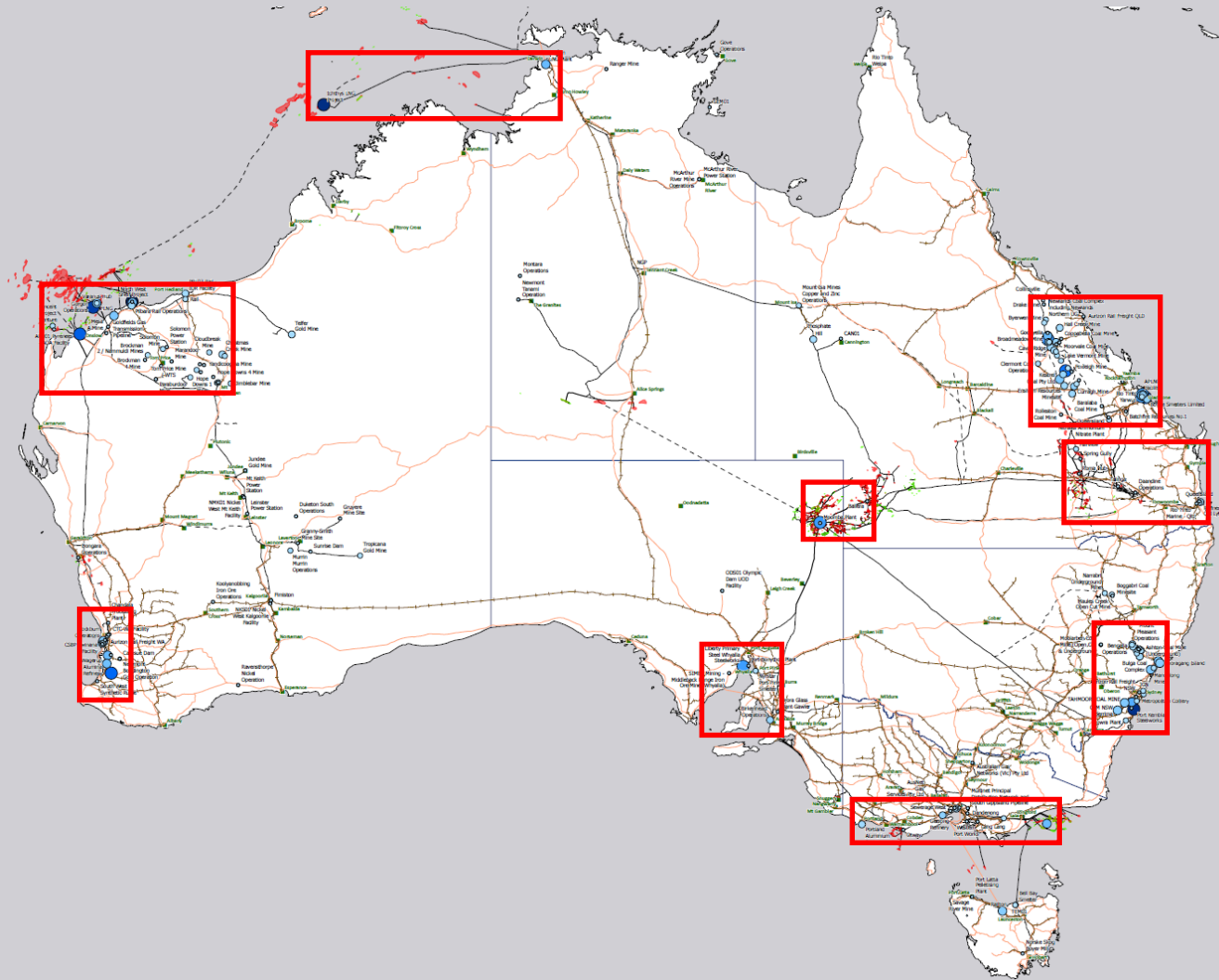
- The role of CCUS in Australia

- Natural gas production and processing
- Hard-to-abate industry
- Low-carbon hydrogen
- Negative emissions
- Regional decarbonisation



appea

the voice of australia's
oil and gas industry



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The role of CCUS in the energy transition

- International Energy Agency
 - **Fatih Birol | IEA Executive Director** – *“Reaching net zero will be virtually impossible without CCUS”*
 - **2022 IEA Net Zero Emissions Scenario** – CCUS reaches 1.2 GtCO₂ annually by 2030 rising to 6.2 GtCO₂ captured annually by 2050
- Intergovernmental Panel on Climate Change
 - **2022 IPCC 6th Assessment Report** – across all scenarios the median role of CCUS around 17 Gt of CO₂ per year in 2050
- International Renewable Energy Agency
 - **2020 Reaching Zero Report** – 6% of annual emissions reductions from CCUS in accelerated Deep Decarbonization Perspective
 - **2020 Global Renewable Outlook** – *“for certain industrial processes, [...] no other major mitigation option is currently on the table”*

