

CREATING VALUE THROUGH KNOWLEDGE



GLOBAL CCS
INSTITUTE

OUR MISSION IS TO ACCELERATE THE DEPLOYMENT
AND COMMERCIAL VIABILITY OF CARBON CAPTURE
AND STORAGE (CCS) GLOBALLY.

If CO₂ is material to achieving your mission... we can help.

The Global CCS Institute is the world's leading authority on carbon capture and storage (CCS) – an international climate change organisation whose mission is to accelerate the deployment of CCS as an imperative technology in tackling climate change and providing energy security.

We are headquartered in Melbourne, Australia with offices in Washington DC, London, Brussels, Beijing and Tokyo.



ABOUT US

The Global CCS Institute difference.

With a team of over 40 professionals across the globe, we drive the adoption of CCS as quickly and cost effectively as possible by sharing expertise, building capacity and providing information, advocacy and advice to ensure this clean technology can play its vital role in reducing greenhouse gas emissions.

WE ARE THE WORLD AUTHORITY ON CCS

The Global CCS Institute offers unparalleled expertise and knowledge across every aspect of CCS. No other organisation has the holistic capabilities or CCS expertise on a global scale. Our team includes geologists, scientists, engineers, economists, policy analysts, climate change experts, business developers and marketers, who provide expertise across the entire CCS spectrum.

WE ARE GLOBALLY CONNECTED

The Global CCS Institute is an influential and collaborative organisation. We are active participants in international climate change engagements, including the United Nations Framework Convention on Climate Change (UNFCCC), the World Energy Council (WEC), the International Energy Trading Association (IETA) and the Green Climate Fund. We have the local and global networks, the expertise, reputation and the passion to create positive change and support our Members and clients across every aspect of CCS.

WE CREATE VALUE THROUGH KNOWLEDGE

As the world authority on CCS, we are an unparalleled source of research, data and information on all aspects of CCS deployment. Our bespoke consultancy service draws on our specialist CCS resources and expertise to deliver tangible value for our clients, assisting them to build knowledge and make informed, confident business decisions.



HOW WE CREATE VALUE

We are CCS experts that hold the best CCS resources.

We combine our technical, policy and business knowledge to offer a bespoke consultancy service to our Members and clients on CCS.

Our consultancy services include CCS market and policy analysis, order of magnitude pre-feasibility studies, CCS legal and regulatory framework assessment or design, community engagement and education and much more.



CO₂RE™

Launched in 2018, our CCS intelligence database provides the most current data, information and analysis of global CCS policy, CO₂ storage resources, legal and regulatory frameworks, CCS facilities and pilot projects and climate change information.

GLOBAL STATUS OF CCS REPORT

Every year, we publish the Global Status of CCS – a flagship publication for our clients to understand CCS and its vital importance to a low-emission future.

CCS RESEARCH AND REPORTS

We produce a range of specialist reports and research papers key topics associated with CCS across legal and regulatory, storage, transportation, technical developments and project delivery.

THOUGHT LEADERSHIP

We regularly publish reports, analysis and provide advice and information on CCS economics, capture technologies, storage, policy, legal, regulatory and community engagement.

GLOBAL NETWORK

We are connected to leading governments, projects, researchers and institutions including the International Energy Agency, UNFCCC, International Panel on Climate Change and Carbon Sequestration Leadership Forum.

EXPERT TEAM

Our team has expertise in energy and climate policy and law and regulation, energy and CCS technologies, economics and finance, project development, geological storage of CO₂ and enhanced oil recovery, marketing and promotion and community engagement and stakeholder management.



ADVICE AND CAPACITY-BUILDING

POLICY ADVICE

The Global CCS Institute provides governments and other key stakeholders with practical policy advice on CCS. This includes the production of technical reports, economic analysis and strategic counsel on all aspects of CCS deployment.

EVENTS AND MEDIA MANAGEMENT

We have the international networks and resources to plan, co-ordinate, promote and deliver a range of events such as international project launches, high profile workshops and webinars. Our team will provide dedicated media management and strategic communications advice to ensure the success of your event and support the ongoing promotion of your CCS venture.

CCS EDUCATION

We can facilitate workshops for company executives and/or stakeholders to build understanding of CCS. Scope may include CCS technology and status of global deployment, CCS economics/costs, the role of CCS in emission reduction in energy and industry, public education and community engagement and policy and regulation of CCS (including under UNFCCC).

WHAT WE CAN DELIVER

CCS MARKET ANALYSIS – (COUNTRY LEVEL CCS MATURITY ASSESSMENT)

An assessment of the attractiveness of any geography or geographies for CCS-related investment.

The analysis considers factors that create or destroy demand for CCS including:

- Local climate policy and emission reduction targets
- Legal/regulatory environment related to CCS
- Carbon dioxide sources (i.e. industry and power generation)
- Potential and actual demand for carbon dioxide, especially for enhanced oil production
- Geological storage potential and the status of knowledge of potential reservoir characterisation
- Existing CCS expertise/activity or related industries
- Community/political attitudes to CCS including identification of government programmes or policies related to CCS
- Any other significant risks/opportunities relevant to CCS.

POLICY ANALYSIS

The Global CCS Institute provides governments and other key stakeholders with practical analysis of any actual or proposed policy, to determine its relevance to, and impact advice on, CCS development.

This includes the production of technical reports, economic analysis and strategic counsel on all aspects of CCS deployment of CCS. The specific nature of the policy analysis is determined according to the needs of the client.

Deliverables could include:

- An assessment of the effectiveness and efficiency of the policy with respect to CCS deployment
- Identification and description of the strengths and weaknesses of the policy
- Risk analysis for the policy and the client
- Identification and description of opportunities to modify the policy to improve its efficacy including the development of materials to support related advocacy.

CCS TECHNOLOGY AND TECHNO-ECONOMIC ASSESSMENT

Our team has technical expertise in innovative technology solutions to reduce CO₂ emissions across industrial sources. We can provide advice on new or integrated approaches to CO₂ capture technology – both existing and next-generation – and undertake bespoke research on CO₂ management options. Our team also has skills and experience in techno-economic assessment and Lifecycle GHG Analysis, and the development of GHG reduction roadmaps in industrial settings.

ECONOMIC ANALYSIS AND CLIMATE POLICY MODELLING

Our team includes experienced economists with detailed knowledge of economics across global markets, as applied to a range of energy and climate change issues. We can deliver economic analysis across a broad range of sectors as well as develop climate policy, statistical and econometric modelling.

FINANCIAL ANALYSIS

We can provide project financial analysis and guidance on finance opportunities under international climate and environment funding mechanisms.



PUBLIC AND COMMUNITY ENGAGEMENT

The Institute has developed a full suite of public engagement services, grounded in 10 years of best practice research and direct CCS project experience. In addition, as a specialist CCS organisation the Institute can draw on deep expertise across CO₂ capture, transport, storage, policy, legal, commercial and regulatory issues to assist with public engagement activities.

We can assist you with:

- Key Stakeholder identification and analysis
- Community attitude baseline assessment and issues identification
- Community Engagement Plan describing modes and timing for specific engagements.
- Messaging, support material etc for engagements
- Development of community/stakeholder education collateral
- Delivery of specific workshops/engagements required under the Community Engagement Plan (e.g. to educate key stakeholders on CCS)
- Oversight and review of the implementation of the entire Community Engagement Strategy.

ATTITUDES AND OPINION SURVEY

Design and implementation of a program to discover and understand a community or stakeholder group's beliefs and disposition towards CCS and/or a specific CCS project.

The service would include:

- Key stakeholder identification and analysis
- Design and implementation (with a local delivery partner if required) of an engagement plan that may include phone surveys, town hall meetings, presence at significant community events, seminars, direct one-on-one meetings
- Analysis of the results of engagement to identify key issues and opportunities to improve community/stakeholder attitudes and support for CCS.

ORDER OF MAGNITUDE PRE-FEASIBILITY STUDIES

Early stage studies of CCS projects to support go, no-go decision making to proceed to more advanced studies and to identify critical issues that must be addressed in more advanced studies.

Studies could include:

- Identification and assessment of carbon dioxide sources and transport options
- Identification, description and assessment of appropriate capture technologies and technology suppliers
- Identification of prospective geological storage reservoirs, assessment of suitability/risks using available data and identification of additional data requirements
- Identification of potential demand for CO₂ especially for Enhanced Oil Recovery
- Capex/Opex estimation at plus/minus 50 per cent uncertainty for a CCS project
- Assessment of policy/regulatory environment risks and opportunities
- Assessment of community/political attitudes and risks.

CCS LEGAL AND REGULATORY FRAMEWORK ASSESSMENT OR DESIGN

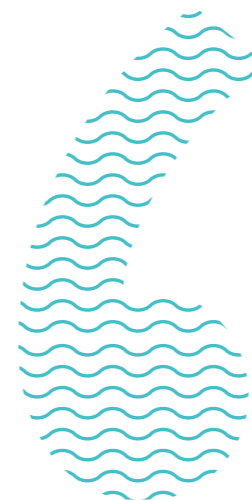
Assessment of an existing legal and regulatory framework to determine its impact on risks and opportunities for a CCS project.

The scope of the assessment could include identification and description of significant regulatory requirements and gaps or uncertainties in regulation that present risk to the project. Issues would include:

- Treatment of CCS under local and international carbon accounting rules and requirements for abatement to be recognised
- Regulation of storage reservoir exploration, characterisation and injection
- Monitoring and verification requirements for CO₂ storage
- Management of various types of liability (including long term liability) for stored CO₂
- Transboundary movement of CO₂ if applicable.

OUR CLIENTS

Our diverse international client base includes governments, global corporations, private companies, research bodies and non-governmental organisations; all of whom are committed to CCS as an integral part of a decarbonised future.



WATARA MATSUMURA

Director, Global Environment Partnership Office, Industrial Science & Technology Policy & Environment Bureau
Ministry of Economy, Trade and Industry, Japan (METI)

“The Institute provides consultancy services of the highest quality. It leverages its existing knowledge and competency base to deliver expert and cost-effective analysis. In late 2017, the Global CCS Institute completed a conceptual study of potential business models for the utilisation of Victorian brown coal with CCS for METI.

The study investigated the production of clean hydrogen, and the upgrading and export of Victorian brown coal to India for power and production with carbon capture and enhanced oil recovery.

The insightful report met all of METI’s expectations. METI will continue to consider the consultancy services of the Institute as one of the most important option for the analysis on CCS.”

BOB COOK

Bridgeport Energy Ltd

“Bridgeport Energy is a business which expects to have a significant CO₂ exposure in the foreseeable future. This represents an opportunity for Bridgeport and also a first for Australia but does give rise to a number of issues. We approached the Global CCS Institute with one of those issues namely the identification and understanding of local and international attitudes to CO₂ employed in enhanced oil recovery (CO₂-EOR) operations as a greenhouse gas abatement technology.

The Global CCS team delivered a concise assessment of current local and international views and also where the oil industry stands both here and overseas on the matter. The study provided recommended steps that could be taken for CO₂-EOR to be formally recognised by the Australian Federal Government as a greenhouse gas abatement technology.

The Institute’s global connections were key to the timely success of this project. I commend the Global CCS Institute Consultancy and the professionalism and expertise of the team who contributed to the study. I look forward to working with them in the future to advance the study’s recommendations.”

GET IN TOUCH

To find out more about how the Global CCS Institute can create value for your organisation, visit globalccsinstitute.com or contact us.

AMERICAS

Washington DC, United States

americasoffice@globalccsinstitute.com

AUSTRALIA

Melbourne, Australia

info@globalccsinstitute.com

CHINA

Beijing, China

chinaoffice@globalccsinstitute.com

EUROPE & MIDDLE EAST

Brussels, Belgium

europaoffice@globalccsinstitute.com

UNITED KINGDOM

London, United Kingdom

ukoffice@globalccsinstitute.com

JAPAN

Tokyo, Japan

japanoffice@globalccsinstitute.com