Project Update Part II: International CCUS Development Efforts

NARUC-WIEB Carbon Capture, Utilization, and Storage Workshop

FRIDAY, OCT. 9, 2020 | 1 – 2 PM ET
SPEAKERS

• Jeff Erikson, General Manager, Client Engagement, Global CCS Institute
• C. Beth Hardy, Vice-President, Strategy & Stakeholder Relations, International CCS Knowledge Centre
INTERNATIONAL CCUS DEVELOPMENT EFFORTS

WIEB + NARUC CCUS WORKSHOP SERIES
OCTOBER 9, 2020

JEFF ERIKSON, GENERAL MANAGER – CLIENT ENGAGEMENT
THE GLOBAL CCS INSTITUTE

International think tank

Backed by governments, businesses and NGOs

Mission: To accelerate deployment of CCS

6 locations

Advocacy
Intelligence
Connections

76 MEMBERS
1. Broad acceptance of reality of climate change

2. Wider understanding of carbon capture’s role

3. Deployment required under any net zero scenario

4. Mature technology, deployed globally

5. Cost competitive today

6. Complements renewables

7. Blue hydrogen cost well below green hydrogen

8. The need for carbon dioxide removal
Impact of 2007-2009 GFC washing through the pipeline

Multiple factors driving recovery

2015 Paris Agreement & renewed ambition

- 40 million tpa
- 260 million tonnes to date

Source: Global CCS Institute
59 COMMERCIAL CCS FACILITIES

- 21 Operational
- 16 in Advanced Development
- 19 in Early Development

Source: Global CCS Institute
**USA REMAINS THE LEADER**

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1 MTPA CO2 CIRCLE AREA PROPORTIONATE TO CAPACITY

IN OPERATION  IN CONSTRUCTION  ADVANCED DEVELOPMENT

Source: Global CCS Institute
CCS HUBS/CLUSTERS
CCS HUBS/CLUSTERS

- NG power, biomass power, hydrogen production, carbon-intensive industry
- Ramp to 10 million tpa by 2030

- 18 million tpa by 2040
- Biomass power (Drax), hydrogen production, carbon-intensive industry

INDUSTRY SECTOR
- COAL FIRED POWER
- NATURAL GAS POWER
- NATURAL GAS PROCESSING
- FERTILISER PRODUCTION
- HYDROGEN PRODUCTION
- IRON AND STEEL PRODUCTION

STORAGE TYPE
- CHEMICAL & PETROCHEMICAL PRODUCTION
- CEMENT PRODUCTION
- WASTE INCINERATION
- ETHANOL PRODUCTION
- BIOMASS POWER
- DEEP SALINE FORMATIONS
- ENHANCED OIL RECOVERY
- DEPLETED OIL AND GAS RESERVOIRS
- VARIOUS OPTIONS CONSIDERED

DELIVERY
- PIPELINE
- SHIP
- ROAD
- DIRECT INJECTION
• **London Protocol** – transboundary shipment of CO2
• **Norway** – LongShip FID
• **UK** – Net Zero Teeside, Humber, Acorn, etc
• **Netherlands** – PORTHOS: 100 million from EU; FID in 2021
• **Italy** – Port of Ravena
• **Denmark, Sweden**, etc.
MIDDLE EAST – SEEING A LOW-CARBON FUTURE

- **Saudi Arabia** – Circular Carbon Economy; high ambition for CCUS
- **UAE** – Al Reyadah I and II: 3.1 mpta by 2025
- **Qatar** – Ras Laffan LNG: 5 mpta by 2025
- **Bahrain, Oman, Kuwait**
ASIA – INTERNATIONAL COLLABORATION

- **Singapore** – low emissions development strategy; CCS
- **SE Asia** – high CO2 gas fields
- **Japan** – international partnerships, tech export
- **China** – Net Zero by 2050; two facilities in construction; CCS on steel
- **India** – growing interest
• **Gorgon** – 2 million tonnes stored
• **CarbonNet** – commercialization options
• **Santos** – Moomba Gas Plant FEED: 1.7 mtpa
• **Hydrogen Energy Supply Chain**, w Japan
• **Pouakai** (NZ) – Allam Cycle; hydrogen+fertilizer+power generation
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Source: Global CCS Institute
## LOOKING AHEAD

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<td>China Net Zero Commitment?</td>
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Developing CCS Projects in Texas
October 21-22
Register at globalccsinstitute.com

The Global Status of CCS 2020
December 2
Download at globalccsinstitute.com
The International CCS Knowledge Centre is a non-profit organization founded by BHP and SaskPower.

Mission: To accelerate the understanding and use of carbon capture and storage as a means of managing GHG emissions

- Staff are available to provide experience-based considerations for CCS projects.
- Guidance for planning, design, construction and operation.
- Active engagement with financiers, decision makers, and business case partners.
Carbon Capture and Storage Initiatives

THE LEARNING STARTS HERE
WORLD’S 1ST LARGE SCALE POST-COMBUSTION CCS FACILITY

Over 3 million tonnes of CO₂ captured & stored since 2014
The BD3 ICCS Project

- World’s first post-combustion coal-fired CCS project fully integrated with a power station.
- Life extended the 45-year-old Boundary Dam Unit 3.
- Favored by economics at the time.
- Aided by $240 CAD million-dollar federal grant.
- Executed as a two-part project:
  - Power island upgrade
  - CCS retrofit
- Capture operations began October 2014.
- CO₂ used for EOR or stored in the Aquistore Project.

*Figure 1. Boundary Dam Power Station and the ICCS Facility*
Performance: Exceeding Standards

Tonnes of CO₂ per gigawatt hour (t/GWh)

-1100 to 1100 t/GWh

1100 t/GWh = Lignite Coal Plant
550-500 = Current Natural Gas Plant
420 = Canadian Regulations on Coal Plant
375-400 = New Natural Gas Plant
275-325 = Wind (with peakers)
120-140 = CCS on Boundary Dam 3+

BECCS: biomass & CCS on retrofitted Coal Plant (could be as low as -1100 t/GWh)
Canada, with its world-class geological storage potential for CO₂, is doing its part to demonstrate CCS technology. The Weyburn project in Saskatchewan was launched in 2000.
About the Shand Feasibility Study

Key findings of feasibility study evaluates the economics of CCS on a 300MW coal-fired power plant in Saskatchewan

- Projected capture capacity of 2Mt/yr
- Capital cost to be 67% less per tonne of CO₂ captured
- Cost of capture at $45US/t CO₂
- Capture rate can reach up to 97% with reduced load (i.e. renewables on grid)
- Fly ash sales can further reduce CO₂ (potential 125,000t CO₂/yr reduced)
Canada Current CCUS Activities

Boundary Dam, Shell Quest and two Alberta Carbon Trunk Line projects are notable large-scale CCS actions in Canada.

- Weyburn EOR operations (SK)
- Direct Air Capture – Carbon Engineering (BC)
- Lehigh Cement feasibility study (AB)
- Lafarge CCU operations (BC)
- Svante-Husky testing (SK)
- Carbon Capture Test Centre (SK)
- XPRIZE (AB)
- Carbon Cure (NS)
Weyburn-Midale CO\textsubscript{2} Monitoring & Storage Project

Enhanced Oil recovery using CO\textsubscript{2} from the US & Canada

- Site of an international research project, IEA GHG Weyburn- Midale CO\textsubscript{2} Monitoring & Storage Project; led by the Petroleum Technology Research Centre (PTRC) in Regina
- CO\textsubscript{2} injection commenced in October 2000
- Have safely captured more than 35 million tonnes of CO\textsubscript{2}
QUEST – Blue Hydrogen in Alberta

To date, Quest has captured and stored over 5 million tonnes of CO₂

- One million tonnes CO₂ per year capacity
- Equivalent to emissions from ~250,000 cars
- 35% reduction of Scotford upgrader CO₂ emissions
- CO₂ capture at the upgrader from 3 hydrogen manufacturing units
- CO₂ transported by 12-inch pipeline to storage
- Permanent storage 2 km underground
The Alberta Carbon Trunk Line (ACTL) & Blue Hydrogen

The ACTL is a 240-kilometre CO₂ pipeline. CO₂ is captured from the Sturgeon Refinery & Nutrien Redwater fertilizer.

- The ACTL system captures industrial emissions and delivers the CO₂ to mature oil and gas reservoirs for use in EOR and permanent storage.
- The ACTL can transport up to 14.6 million tonnes of CO₂ per year; licensed for 5.5Mt CO₂/year.
- Able to unlock 1 Billion barrels of light oil (initially 30 Mt in Clive oil field)
- Storage of 2Gt CO₂
Thank You

For more information please visit our website at:
ccsknowledge.com

Contact us by email:
info@ccsknowledge.com

Don’t forget to follow us on Twitter
@ccsknowledge
QUESTIONS

Submit questions two ways:

1. Raise your hand and the moderator will call on you to unmute your line

2. Type a question into the question box
NARUC-WIEB CCUS WORKSHOP SCHEDULE

1. Sept. 11: The Case for Carbon Capture, Utilization, and Storage
2. Sept. 18: Breaking It Down: CCUS Technologies
5. **Oct. 9: Project Update Part II: International CCUS Development Efforts**

[Full Agenda] | [Registration]

All webinars are held from 1:00 – 2:00 pm ET
UPCOMING NARUC EVENTS

Innovation Webinars

• Oct 22, 3-4PM (ET): Emerging Possibilities for Bulk Energy Storage
• Nov 19, 3-4PM (ET): Where the Wind Blows: Offshore Wind Outlook for State Regulators

NARUC Annual Meeting – Nov 5-6 and 9-11

• Registration open
• https://www.naruc.org/meetings-and-events/naruc-annual-meetings/2020-annual-meeting/
Save-the-Dates

Fall 2020 JOINT CREPC-WIRAB MEETING Webinar Series

Fridays: October 23, October 30, November 6, and November 13, 2020
11:00 – 12:30 PM (MT) / 10:00 – 11:30 AM (PT)

You are invited to join us on Fridays this October and November for the Fall 2020 Joint CREPC-WIRAB Meeting Webinar Series, where western electric utility policymakers and regulators, industry experts, consumer advocates, and other stakeholders will explore and discuss current and emerging electricity trends, challenges, and opportunities for the Western Interconnection.

https://westernenergyboard.org/

Joint CREPC-WIRAB Meetings are conducted by the Committee on Regional Electric Power Cooperation (CREPC)—a joint committee of the Western Interstate Energy Board and the Western Conference of Public Service Commissioners—and the Western Interconnection Regional Advisory Body (WIRAB).
THANK YOU

Join us for the next webinar in the NARUC-WIEB CCUS Workshop

Friday, Oct 16 1:00 – 2:00 pm ET

*Regulatory Considerations and Policy Recommendations*

- Doug Scott, Vice President, Electricity and Efficiency, Great Plains Institute
- Kara Fornstrom, Chairman, Wyoming Public Service Commission

THANK YOU