

Carbon Sequestration Leadership Forum

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**Report from
Projects Interaction and Review Team
(PIRT) meeting
Riyadh, Saudi Arabia**

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Review of Projects Nominated for CSLF Recognition



- CO₂ Capture Project, Phase 4
- CO₂CRC Otway Project – Stage 2
- Oxy-Combustion of Heavy Liquid Fuels Project
- Carbon Capture and Utilization Project / CO₂ Network Project
- Dry Solid Sorbent CO₂ Capture Project

The Technical Group recommend to the Policy Group that the five projects be recognised by the CSLF

CO₂ Capture Project, Phase 4



- Nominated by United Kingdom, Canada, and United States
- Overall goal of CCP is to advance technologies which will support deployment of large-scale CCS
- CCP4 began in February 2015, will run through end of 2018
- CCP4 members are BP, Chevron, Petrobras, and Suncor

CO2CRC Otway Project – Stage 2



- Nominated by Australia and United States
- Overall goal is to advance knowledge for CO₂ storage in saline formations.
 - Improved storage model robustness
 - Improved means of predicting subsurface CO₂ behavior and plume stabilization
- Project to run to 2020
- Expected outcome is an improvement in methodologies for the characterization and monitoring of CO₂ stored in deep saline formations

Oxy-Combustion of Heavy Liquid Fuels Project



- Nominated by Saudi Arabia and United States
- Joint project between Saudi Aramco and Alstom
- Overall goal is to investigate the performance of oxy-fuel combustion technology when firing difficult-to-burn liquid fuels such as asphalt
- Anticipated outcomes include demonstration of feasibility for oxy-combustion with heavy liquid fuels at a 30-60 MW scale
- Project will help push technology forward toward commercialization of oxy-combustion of low value fuels

Carbon Capture and Utilization Project / CO₂ Network Project



- Nominated by Saudi Arabia and South Africa
- Located in Jubail Industrial City, Saudi Arabia
- Sponsored by Saudi Arabia Basic Industries Corp.
- Overall goal is to capture and utilize CO₂ from ethylene glycol production facilities
- Large-scale project, 1,500 tonnes CO₂ per day
- Project to include 25 km pipeline network
- CO₂ to be utilized a feedstock for production of methanol, urea, oxy-alcohols, and polycarbonates

Dry Solid Sorbent CO₂ Capture Project



- Nominated by Korea, United Kingdom and Norway
- Submission was for Hadong (10 MW pilot-scale facilities) and Daejeon (lab scale units) but PIRT recommends only the 10MW component
- Project to continuously operate 180 days per year through 2017
- Will provide useful O&M information, as well as overall performance and cost data
- Provides pilot test facility for testing of solid sorbent technologies

Future PIRT activities



- Technology Workshops
 - Lessons learned from completed CSLF projects
- Future Technology Road Map (TRM) Reports
 - Recommend that Technical Group assign small PIRT working group to formulate process and structure during 2016
- 2017 TRM

Open Discussion and New Business



- PIRT TRM discussion
- Several options discussed:
 - full re-write
 - do nothing
 - generate ideas that will lead to an Interim Report in time for expected 2017 Ministerial Meeting
- Technical Group to discuss

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Thank you