

Carbon Capture, Utilisation and Storage (CCUS) Policy and Investment Workshop

13 - 14 June 2018

Ministère des Affaires Etrangères, Centre de Conférence Ministériel (CCM)
27, rue de la Convention, 75015 Paris, FRANCE

Agenda

Day 1 (Wednesday 13 June 2018)

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| 09:15 – 09:45 | <i>Coffee and Registration</i> | |
| 09:45 – 10:00 | <i>Conference room opens</i> | |
| 10.00 – 11.00 | Welcome and Opening Address | Dr. Fatih Birol Executive Director, IEA |
| 11.00 – 12.45 | <p><u>Session 1:</u> Can good policy deliver a new era for CCUS?</p> <p>Introduction by the Chair (5 min)</p> <ul style="list-style-type: none"> • Policy mechanisms for large-scale deployment (20 min) • Developing a policy framework and deployment pathways for CCS: UK perspective (20 min) • Role and support for CCUS in Europe: funding programme design (15 min) <p><u>Discussion:</u> 45 min</p> | <p>Chair: Mr. David Hone Chief Climate Change Adviser Shell International</p> <p>Mr. Emrah Durusut Senior Principal - <i>Element Energy</i> and Mr. Robin Smale, Director – <i>Vivid Economics</i></p> <p>Ms. Charlotte Morgan Partner - <i>Linklaters LLP</i></p> <p>Mr. Jonathan Baker-Brian CCUS Senior Policy Adviser - <i>BEIS-UK Government</i></p> <p>Ms. Maria Velkova Policy Officer, <i>DG CLIMA</i> - <i>European Commission</i></p> |

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| 12:45 – 13:45 | Lunch | |
| 13.45 – 15:15 | <p>Session 2: Will 45Q unlock the next wave of investment in the US?</p> <p>Introduction by the Chair (5 min)</p> <ul style="list-style-type: none"> • 45Q credits implementation and CCUS developments (10 min) • CCUS policy measures in the US: opportunities, challenges, and modeled results (20 min) • Considering the application of 45Q for the power sector (15 min) <p>Discussion: 40 min</p> | <p>Chair: Mr. Carl De Maré Vice President - Head of Technology Strategy, ArcelorMittal</p> <p>Mr. Adam Wong International Advisor - US Department of Energy</p> <p>Mr. Kurt Waltzer Managing Director - Clean Air Task Force</p> <p>Dr. Holly Krutka Vice President Coal Generation and Emissions Technologies - Peabody</p> |
| 15:15 – 15:45 | Afternoon Break (coffee/tea provided) | |
| 15.45 – 16.40 | <p>Session 3: What role can CO₂ demand play in CCUS deployment?</p> <p>Session 3a: CO₂ Enhanced Oil Recovery as an enabler for CCUS deployment?</p> <p>Introduction by the Chair (5 min)</p> <ul style="list-style-type: none"> • Global potential for CO₂-EOR (15 min) • CCUS/CO₂-EOR developments in Mexico (15 min) <p>Discussion: 20 min</p> | <p>Chair: Ms. Charlene Russell Vice President Commercial Development - Occidental Petroleum</p> <p>Mr. Colin Ward Research Fellow – KAPSARC</p> <p>Mr. Ulises Neri Energy Advisor, National Hydrocarbons Commission – Government of Mexico</p> |
| 16:40 – 16:55 | Short break | |
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| <p>16.55 – 18.30</p> | <p>Session 3: What role can CO₂ demand play in CCUS deployment? <i>(Continued)</i></p> <p>Session 3b: Innovative CO₂ utilisation opportunities?</p> <p>Introduction by the Chair (5 min)</p> <ul style="list-style-type: none"> • Carbontech: the double bottom line opportunity for carbon utilization beyond EOR (15 min) • Building a CO₂ Marketplace (15 min) • CO₂ Utilization to Unlock Profits (While Helping the Planet) (15 min) • Making Sustainability Smart Business: Driving CO₂ demand by creating opportunity across a value chain (15 min) <p>Discussion: 30 min</p> | <p>Chair: Ms. Kathryn Gagnon Senior Policy Analyst, Energy Technology Policy, <i>Natural Resources Canada</i></p> <p>Dr. Matt Lucas Assoc. Director for CCUS - <i>Center for Carbon Removal</i></p> <p>Mr. Brett Henkel Vice President Strategic Account - <i>Inventys</i></p> <p>Dr. Sean Monkman Vice President Technology Development - <i>CarbonCure Technologies</i></p> <p>Mr. Brian Leary Director Business Development – <i>Solidia Technologies</i></p> |
| <p>18:30 – 18.35</p> | <p>Wrap up and close of Day 1</p> | |

Agenda – Day 2 (Thursday 14 June 2018)

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| <p>08.30 – 09.00</p> | <p>Arrival Coffee/Tea</p> | |
| <p>09.00 – 10.30</p> | <p>Session 4: What is required to make CCUS financeable?</p> <p>Introduction by the Chair (5 min)</p> <ul style="list-style-type: none"> • A commercial bank perspective on CCUS investment (15 min) • Bankability of CCS project from a lender’s perspective: lessons learned (15 min) | <p>Chair: Mr. Ståle Aakenes Chief Economist, <i>Gassnova</i></p> <p>Mr. Olivier Musset Global Head of Energy - <i>Société Générale</i></p> <p>Mr. Tomonori Tatsumi Director Oil & Gas Finance Department - <i>Japan Bank for International Cooperation</i></p> |

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| | <ul style="list-style-type: none"> European Investment Bank : potential financing of CCUS projects (10 min) Framing the Carbon Utilization Investment Opportunity, the Carbon XPRIZE Experience (15 min) <p><i>Discussion: 30 min</i></p> | <p>Mr. Jacek Podkanski Senior Engineer - <i>European Investment Bank</i></p> <p>Ms. Nikki Batchelor Senior Manager, <i>XPRIZE</i></p> |
| <p>10:30 – 11:00</p> | <p><i>Morning Break (Coffee/Tea)</i></p> | |
| <p>11.00 – 12.30</p> | <p><u>Session 5: New approaches to unlock commercial investment in CCUS</u></p> <p>Introduction by the Chair (5 min)</p> <ul style="list-style-type: none"> Making CCUS the Cornerstone of the Economy of the Future (15 min) Demonstrating the value proposition for CCUS (15 min) Developing deployment pathways and business models for CCUS (15 min) <p><i>Discussion: 40 min</i></p> | <p>Chair: Mr. Martin Towns Senior Portfolio Lead, Carbon Capture, Use & Storage - <i>BP (also representing OGCI)</i></p> <p>Mr. Bill Brown CEO - <i>NETPower / 8 Rivers</i></p> <p>Dr. Leigh Hackett Co-owner and Managing Partner - <i>Industria Mundum</i></p> <p>Mr. Patrick Dixon Independent Consultant</p> |
| <p>12:30 – 13:20</p> | <p><i>Lunch</i></p> | |
| <p>13:20 – 15:00</p> | <p><u>Session 6: Strategies for scaling up CCUS</u></p> <p>Introduction by the Chair (5 min)</p> <ul style="list-style-type: none"> CO₂ storage resource maturation: considerations for risks, structure and funding - experiences from Australia (15 min) Establishing a CCUS hub: insights from the Port of Rotterdam CCS project (15 min) | <p>Chair: Mr. Philippe Fonta Managing Director – <i>WBCSD Cement Sustainability Initiative (CSI)</i></p> <p>Prof. Andrew Garnett Director of CCS - <i>University of Queensland</i></p> <p>Mr. Mark Driessen Public Affairs Manager <i>PORTHOS - Port of Rotterdam Authority</i></p> |

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| | <ul style="list-style-type: none"> Delivering a full-chain CCUS project: the Norwegian experience (15 min) Hydrogen from brown coal with CCS – an Australia/Japan collaboration (15 min) <p><i>Discussion: 35 min</i></p> | <p>Mr. Aslak Viumdal Senior advisor, Strategy and Business Development, Full scale department - <i>Gassnova</i></p> <p>Ms. Sarah Chapman Assistant Manager - Low Emission Technologies, <i>Department of Industry, Innovation and Science, Australian Government</i></p> |
| 15:00 – 15:10 | Short Break | |
| 15:10 – 16.00 | <p>Discussions – International cooperation to drive CCUS deployment</p> <ul style="list-style-type: none"> International CCUS Collaboration (10 min) Discussion of opportunities and priorities for International CCUS Summit (40 min) | <p>Chair: Mr. David Turk Director (Acting), Directorate of Sustainability, Technology and Outlooks - <i>IEA</i></p> |
| 16.00 | End of the workshop | |