

CCSA Technical Working Group Minutes

17th September 2024

10:00 – 12:00 BST

Microsoft Teams Meeting

Link to Meeting Recording Here: <https://vimeo.com/1012834993/097bade157?share=copy>

Chair: Suzanne Ferguson

No.	Item	Action
1	<p>Introductions and CCSA competition law policy notice <i>Suzanne Ferguson (TWG Co-chair)</i></p> <ul style="list-style-type: none"> • Meeting minutes from 13th June signed off • New members introduction: <ul style="list-style-type: none"> ○ Ian Phillips (Blade Energy) ○ Simon Gant (HSE) ○ Dave Forecast (Shearwater Geoservices) 	
2	<p>CCSA Research and Projects – Cost Reduction Workstream <i>Samuel Levin & Piers Johnston (KPMG)</i></p> <p style="text-align: center;">- <i>Update provided in the slides</i></p> <p><u>Discussion:</u></p> <p>1. Sector Development considerations:</p> <ul style="list-style-type: none"> • Is sector development minimal in terms of cost reduction curves when transport & storage technology services are already established? There might be less cost reduction opportunities when it comes to T&S. • Technology and supply chain costs curves are parallel to cost reductions for renewables coming down. • The cost reduction workstream is looking to demonstrate that as the sector develops and scales up, the more overall costs will reduce. • Another factor to consider is risk costs under sector development, specifically around financing. Risk factors reduce as the sector develops as has happened with renewables. There are cost reductions to be gained as people gain confidence in the technology and its engineering design. • There is new technology angle that is missing as a consideration. Government needs to encourage other than amine capture technologies to be developed. • New technology scale up such as DACCS will also increase scale up of storage. • Cross-border transport and storage of CO2 will also provide cost reduction opportunities. • We need to ensure that there is clear messaging with regards to which part of the CCS value chain the cost reductions lie. <p>2. Cost Factors:</p> <ul style="list-style-type: none"> • The price of steel during the past few years has been a big cost factor affecting the cost of projects. • The inherent cost of CO2 within steel production might be what has increased the cost of steel. 	<p>Please submit any input or feedback on cost reduction workstream to Beth.</p> <p style="text-align: right;">CCSA Secretariat to keep</p>

	<ul style="list-style-type: none"> • The cost associated with times and delays to achieving consent and permitting for projects is increasing. • Government should bring together the CCUS framework holistically to avoid delays and increasing of DEVEX costs. <p>Next steps:</p> <ul style="list-style-type: none"> ➤ KPMG and CCSA are planning a clear forward work plan, including how member engagement will occur, which will be shared with members in due course. 	<p>members up to date on future work plans for the cost reduction workstream.</p>
<p>3</p>	<p>TWG Task Subgroup Updates <i>Beth Hebditch & Despoina Tsimprikidou (CCSA Secretariat)</i> <i>Task subgroup convenors</i></p> <ul style="list-style-type: none"> - <i>Updates provided in the slides</i> <p>CCU Task Subgroup: update provided in the slides.</p> <ul style="list-style-type: none"> - Contact Despoina if interested in participating in this. <p>GGRs Task Subgroup: update provided in slides.</p> <ul style="list-style-type: none"> - Contact Despoina if interested in participating in this. <p>Permitting & Planning Task Subgroup: update provided in slides.</p> <ul style="list-style-type: none"> - Contact Despoina if interested in participating in this. <p>Additional update:</p> <ul style="list-style-type: none"> - There are ongoing discussions regarding creating an online library of collated EALs in collaboration with the Environment Agency. - There is also ongoing work around cumulative assessments. - Both of these workstreams are ongoing but are moving forward. <p>Health & Safety Task Subgroup: update provided in the slides.</p> <ul style="list-style-type: none"> - Contact Despoina if interested in participating in this. <p>Subsurface & Storage Task Subgroup: update provided in slides.</p> <ul style="list-style-type: none"> - Contact Beth if interested in participating in this. <p>Research & Innovation Task Subgroup</p> <ul style="list-style-type: none"> - Contact Rebecca if interested in participating in this. <p>CO2 Specification & Pipelines Task Subgroup: update provided in slides.</p> <ul style="list-style-type: none"> - Contact Beth if interested in participating in this. <p>Update on measurement of CO2 stream purity provided by subgroup convenor, Andy Brown (Progressive Energy):</p> <ul style="list-style-type: none"> - Seeking feedback from projects to ensure that CO2 stream purity limits are compliant with relevant specifications. - Proposed Energy Institute Working Group to pull together a draft Good Practice Guide on measuring CO2 stream purity. - This would also provide input to the proposed CEN Standards on CCS (TC474) which could be upgraded to a new ISO standard. <p><u>Discussion:</u> Q: Has the existing ISO workstream on this topic stopped? A: No, the Working Group stopped but has been reformed as this issue is becoming more mainstream.</p>	<p>Members to contact the relevant CCSA lead if interested in joining the TWG task subgroups.</p> <p>Nominations for representatives to proposed Energy Institute Working Group on measurement of CO2 stream purity to be sent to Beth by 20th September.</p>

	<p>Q: Is the goal of the proposed Energy Institute Working Group to support existing workstreams? The priority should be to have clarity on this issue as soon as possible and avoid creating an influx of good practice guides.</p> <p>A: The current approach is to list the impurities identified and recommend the best way to measure these via specific equipment, including where this measurement equipment might be available so as to provide valuable aid to projects.</p>	
4	<p>External presentation: Strengthening MRV standards for greenhouse gas removals <i>Leo Mercer (Grantham Research Institute on Climate Change and the Environment)</i></p> <ul style="list-style-type: none"> - Update provided in the slides 	<p>Any questions to be sent directly to Leo Mercer at l.w.mercer@lse.ac.uk</p>
5	<p>External presentation: MRV in practice <i>Mike Rolfe & Jonathan Broer (Validere)</i></p> <ul style="list-style-type: none"> - Update provided in the slides 	<p>Any questions to be sent directly to Mike at mike.rolfe@validere.com</p>
6	<p>Conclusion and AOB <i>Suzanne Ferguson (TWG Co-chair)</i></p> <p>Next TWG meeting: 3rd December 2024</p>	

Actions

Action	Who	Deadline	Progress
Submit input on cost reduction workstream to Beth.	All		Ongoing
Keep members up to date on future work plans for the cost reduction workstream.	CCSA		Ongoing
Nominations for representatives to proposed Energy Institute Working Group on measurement of CO2 stream purity to be sent to Beth.	All	20 th September	Completed
Grantham Research Institute presentation questions to be sent directly to Leo Mercer at l.w.mercer@lse.ac.uk	All		Ongoing
Validere presentation questions to be sent directly to Mike at mike.rolfe@validere.com	All		Ongoing