

<b>Project Name</b>	<b>OFFSHORE WIND &amp; CCUS CO-LOCATION FORUM 7th PLENARY MEETING</b>
<b>Meeting Venue</b>	Sofitel London St James, 6 Waterloo Place, London SW1Y 4AN Virtual option held via Teams
<b>Date &amp; Time of Meeting</b>	14:00 – 16:00 on Tuesday 13th June 2023

<b>Chair of the Meeting</b>	The Crown Estate - Adrian Topham	
<b>Member Organisations &amp; Attendees</b>	<p>TCE</p> <ul style="list-style-type: none"> <li>• William Apps</li> <li>• James Musgrave</li> <li>• Amy Bloomfield-Clarke</li> <li>• Abby Haines</li> <li>• Antonie Chiu Smit</li> <li>• Tristan Bromley</li> </ul> <p>Grayling (Secretariat)</p> <ul style="list-style-type: none"> <li>• Ross McWilliams</li> <li>• Maddie Grounds</li> </ul> <p>CES</p> <ul style="list-style-type: none"> <li>• Philippa Parmiter</li> <li>• Sian Wilson</li> </ul> <p>NTSA</p> <ul style="list-style-type: none"> <li>• Jo Bagguley</li> <li>• Ronnie Parr</li> <li>• Viana Iancu</li> </ul> <p>DESNZ</p> <ul style="list-style-type: none"> <li>• Bryony Loveless</li> </ul> <p>DEFRA</p> <ul style="list-style-type: none"> <li>• Jerome Malhotra</li> </ul> <p>CCSA</p> <ul style="list-style-type: none"> <li>• Georgina Katzaros</li> </ul>	<p>RUK</p> <ul style="list-style-type: none"> <li>• Ajai Ahluwalia</li> </ul> <p>OREC</p> <ul style="list-style-type: none"> <li>• Lorna Bennett</li> </ul> <p>MMO</p> <ul style="list-style-type: none"> <li>• Georgie Sutton</li> <li>• Sian McGuinness</li> </ul> <p>Marine Scotland</p> <ul style="list-style-type: none"> <li>• Drew Milne</li> </ul> <p>Scottish Government</p> <ul style="list-style-type: none"> <li>• Susan Stirling</li> <li>• Alan Macdonald</li> </ul> <p>Welsh Government</p> <ul style="list-style-type: none"> <li>• Elen King</li> </ul> <p><b>Apologies</b></p> <p>DESNZ</p> <ul style="list-style-type: none"> <li>• Wael Khatib</li> </ul> <p>NSTA</p> <ul style="list-style-type: none"> <li>• Nick Richardson</li> </ul> <p>OWIC</p> <ul style="list-style-type: none"> <li>• Benj Sykes</li> </ul>

Item	Notes
<b>1.0</b>	<p><b>WELCOME AND INTRODUCTION</b></p> <p>The Chair opened the plenary meeting by welcoming everyone. Brief introductions were made around the room and on the call.</p> <p>The Chair walked through the agenda and provided a recap on the Forum's five key objectives. He noted the Forum's growth and increasing opportunities for collaboration on the various workstreams.</p> <p>RUK suggested that the Forum set up a SharePoint to share key documents, enable streamlined review processes and facilitate collaborative working.</p> <p><b>Action 1) The Chair and the Secretariat to explore setting up a document sharing platform to support Forum activity.</b></p>

<p><b>2.0</b></p>	<p><b>MATTERS ARISING</b></p> <p>The Secretariat provided a summary on the actions arising from the previous plenary meeting.</p> <p>Action 1) Publish Spatial Characterisation report.</p> <ul style="list-style-type: none"> <li>• Closed – Report published in April.</li> </ul> <p>Action 2) Replace spatial planning workstream with ‘Test &amp; Demonstration’ (aka ‘Demonstrating Colocation’) project and share specific project details on University of Aberdeen scope.</p> <ul style="list-style-type: none"> <li>• Closed – Phase #1 of workstream agreed by members and steering group nominations confirmed (see section 6).</li> </ul> <p>Action 3) MMV Seismic report to be published in April 2023.</p> <ul style="list-style-type: none"> <li>• For discussion – NTSA to provide update (see section 7).</li> </ul> <p>Action 4) Review NECCUS scope of work for SimOps workstream and request feedback from Forum.</p> <ul style="list-style-type: none"> <li>• Closed – Workstream agreed by members and steering group nominations confirmed (see section 8).</li> </ul> <p>Action 5) Summary of CCUS industry survey for future leasing.</p> <ul style="list-style-type: none"> <li>• Closed – The Chair provided an update that the survey was very successful and that TCE &amp; CES are hoping to publish the summary next month.</li> </ul> <p>Action 6) Move to establish Forum workstream steering groups to expedite the delivery of commissioned reports.</p> <ul style="list-style-type: none"> <li>• Closed – Steering group representatives for ‘Demonstrating Co-location’ (University of Aberdeen project) and ‘Simultaneous Operations’ (NECCUS project) confirmed and discussed in sections 6 &amp; 8.</li> </ul> <p>Action 7) Organise future stakeholder engagement events.</p> <ul style="list-style-type: none"> <li>• For discussion – summary of discussion on “myth-buster” event in section 9, with further discussion on next stakeholder event required.</li> </ul>
<p><b>3.0</b></p>	<p><b>WIDER INDUSTRY CONTEXT AND MAJOR EVENT TIMELINE</b></p> <p>The Chair presented an event timeline mapping out the key upcoming policy, commercial, technical and event milestones that the Forum should consider when undertaking its work.</p> <p>The Forum discussed the importance of tracking projects and milestones of specific organisations to identify alignments in workstreams and draw relationships between different groups/forums e.g., Subsurface Taskforce.</p> <p>The Chair drew OREC’s review of floating wind challenges in Scotland as an example of a project that the Forum would find useful to engage with.</p> <p>The Chair asked the floor for other groups or workstreams that could support the Forum’s work and should be considered when tracking external milestone dates.</p>

	<p><b>Action 1) Forum members to provide information on upcoming projects to feed into a co-location forum ‘master timeline’ to demonstrate spatial sense and alignment of announcements and milestones.</b></p> <p><b>Action 2) Forum members to consider other groups that the co-location forum should consider collaborating with in the future.</b></p> <p>Question to Chair:</p> <ul style="list-style-type: none"> <li>• What will the implications of the 2024 election cycle and recommendations from Electricity Network Commissioner Nick Winser’s report be on the OW &amp; CCUS sectors, and therefore the Forum’s work? (RUK)</li> </ul> <p><b>Action 3) The Chair and the Secretariat to consider setting up a risk register to include potential commercial, political, licensing/leasing and colocation impacts.</b></p>
4.0	<p><b>FORUM WORKSTREAMS</b></p> <p>The Chair provided an overview of the timelines of each of the five workstreams – 1) Spatial Characterisation Report; 2) Demonstrating Co-location; 3) MMV Seismic; 4) Simultaneous Operations; 5) Stakeholder engagement.</p> <p>The Chair noted that the timeframes of each workstream extend beyond the end of 2023 and may have a duration of up to 2 years. The Chair asked the Forum to consider what the duration of the forum is more broadly.</p> <p>TCE stressed that each workstream must be carefully considered to ensure the Forum can actively create opportunities and deliver direct impact. Discipline and impact analysis was cited as an important method to ensure the Forum can mitigate risks, adhere to timelines and stick to purpose. The Chair added that the terms of reference could be refined to ensure the Forum remains target focused.</p> <p>Members returned to the discussion about tracking major milestones impacting the Forum’s work – such as Pathways to Growth, the Subsurface Task Force and the OREC Offshore wind group – and it was agreed that the Forum needs a list of forums/groups to connect with.</p> <p>The Scottish Government added it would share its timeline on upcoming activity.</p> <p>The Secretariat asked members if there were any significant risks that the workstreams did not yet address from both a policy and delivery perspective.</p> <p>CES noted that the Forum is largely focused on technical risks and each of the Forum’s projects should be assessed against four key pillars – technical, leasing, regulation and planning - to see where there are still gaps that need to be addressed.</p> <p><b>Action 1) Secretariat to lead on coordinating OW &amp; CCUS project timelines from each member organisation for OW and CCUS sectors to facilitate cross-industry and political stakeholder engagement.</b></p> <p><b>Action 2) Forum to test each workstream against four key pillars to identify any risks that still need to be addressed.</b></p>
5.0	<p><b>WORKSTREAM 1: SPATIAL CHARACTERISATION</b></p> <p>The Chair discussed the findings of the Spatial Characterisation report, specifically its findings that larger and more geologically and geographically diverse set of stores are needed, and considerably more carbon stores need to be appraised to enable CO2 storage targets to be met.</p>

	<p>The report's findings formed an important base for the NECCUS and University of Aberdeen projects.</p> <p>The Chair confirmed that the report has been published on the Forum website and was issued to the developer mailing list in May. Some Forum members stated that they had not read the report yet so the Chair encouraged them to read the Spatial Characterisation Report, as well as the minutes for each plenary session, on the Forum's dedicated webpage on The Crown Estate's website.</p> <p><b>Action 1) Forum members to provide feedback and questions on the Spatial Characterisation Report for next plenary session.</b></p> <p><b>Action 2) The Secretariat to add useful document links at the bottom of plenary minutes.</b></p> <p>Forum members from TCE, MMO, NTSA and RUK discussed matters relating to appraisal activity, including:</p> <ul style="list-style-type: none"> <li>• The current lack of CCUS appraised stores.</li> <li>• Site characterisation and the assessment process.</li> <li>• The differences in appraisal activity between OW &amp; CCUS.</li> <li>• The difference between leases and licenses.</li> </ul> <p><b>Action 3) The Forum to consider a separate session on leasing agreements and license rounds.</b></p> <p>The Chair showed Forum members the England and Scotland maps of Existing and Potential Offshore Energy Agreements contained within the Spatial Characterisation Report and encouraged members to come back with any questions at the next plenary session.</p>
6.0	<p><b>WORKSTREAM 2: DEMONSTRATING CO-LOCATION</b></p> <p>The Chair discussed the purpose of the University of Aberdeen project – name TBC - to demonstrate where viable colocation can take place by examining hypothetical scenarios based on known geological storage types. The aim is to persuade stakeholders that the project is feasible.</p> <p>In terms of deliverables, the project will focus on:</p> <ul style="list-style-type: none"> <li>• Future potential area for OW and CS;</li> <li>• Specific co-location project proposals with monitoring plan, likely by region;</li> <li>• Identify common risk segments;</li> <li>• Viability of planned co-location projects.</li> </ul> <p>He confirmed that TCE will fund the first phase of the project (up to the end of 2023) but stressed the importance of the Forum demonstrating a unified commitment to the second phase of the project between 2024-2025.</p> <p><b>Action 1) Forum members to consider some budget spend for the Forum in the next financial year.</b></p> <p>DESNZ and Defra noted that outputs from this workstream will be useful to feed-in to the Government's Marine Spatial Prioritisation Programme.</p> <p>MMO, CCSA and Marine Scotland confirmed their steering group representatives for the University of Aberdeen workstream.</p> <p><b>Action 2) Secretariat to recirculate plenary deck with updated table of steering group nominees and explore format of meetings.</b></p> <p><u>Question to Chair:</u></p> <ul style="list-style-type: none"> <li>• How frequent will the steering group meetings be?</li> </ul>

	<p>The Secretariat confirmed the intention for steering group meetings to be held monthly to ensure the workstream can be delivered in line with the University of Aberdeen’s timeline to publish its report by the end of the year. The plenary sessions will continue to be quarterly, with the expectation that the steering groups will provide updates on the workstream at the sessions.</p> <p style="text-align: center;"><b>Action 3) Secretariat to input meetings for both the University of Aberdeen and NECCUS workstreams into member’s diaries.</b></p>
<p><b>5.0</b></p>	<p><b>WORKSTREAM 3: MMV SEISMIC</b></p> <p>Ronnie Parr at NTSA provided a detailed update on the MMV Seismic work and confirmed that a comprehensive review of seismic technology had been completed.</p> <p>He noted that there has been an increased definition on what seismic needs, and where, and the findings showed limited synergy between windfarm and carbon storage reservoir requirements.</p> <p>He confirmed that a full report is in progress and is due to be completed by September.</p> <p>RUK noted that a key industry issue is that surveys are not being sufficiently conducted and specialist vessels keep getting trapped doing piling operations. RUK and NTSA agreed to follow-up with a separate discussion.</p> <p>Chair recommended broadening MMV to other monitoring systems other than seismic.</p> <p style="text-align: center;"><b>Action 1) TCE to engage other staff working MMV in NSTA as well as developers with non-seismic MMV plans.</b></p>
<p><b>6.0</b></p>	<p><b>WORKSTREAM 4: SIMULTANEOUS OPERATIONS</b></p> <p>The Chair provided an update on the SimOps workstream – named Project Anemone – and noted its aim to deliver best practice for SimOps recommendations primarily intended for agreement between CCUS and OW developers to be considered by licensing and leasing authorities.</p> <p>In terms of deliverables, the project will focus on:</p> <ul style="list-style-type: none"> <li>• The feasibility of legacy well remediation and MMV design in co-located areas;</li> <li>• Identifying where, when and under which conditions, opportunities from co-location are likely to occur;</li> <li>• The potential commercial benefits and arrangements that would encourage synergies from co-location.</li> </ul> <p>The Chair added that there will be cross-over with the University of Aberdeen project, however the NECCUS report will focus more on operational activity.</p> <p>The Chair confirmed that the project will be initiated by seed funding from CES and other developers to contribute time and data to the joint industry project, with further funding from Forum members.</p> <p>The project is estimated to take between 12 – 18 months.</p> <p style="text-align: center;"><b>Action 1) The Chair to provide an update on which developers have signed up to the project and how the work is progressing.</b></p> <p>TCE noted the importance for the Forum to consider the impact of this project in sharing industry expertise and considering risks.</p>

<p><b>7.0</b></p>	<p><b>WORKSTREAM 5: STAKEHOLDER ENGAGEMENT</b></p> <p>The Chair explained the purpose of the second developer event (held on the same day at 16:30) in helping to ‘myth bust’ common misconceptions about the OW and CCUS industries. The event was set up to move the thinking and understanding of the respective OW &amp; CCUS industries and appreciate the opportunities involved in collaboration.</p> <p>The Chair noted that the invitation for the event was issued to key stakeholders in the industries to coincide with the Global Offshore Wind Conference and confirmed that the third developer event would take place in Autumn.</p> <p>The event would also provide an opportunity to hear the about the Forum’s latest publications, forthcoming workstreams and input into ongoing efforts.</p> <p><b>Action 1) The Chair and Secretariat to take away feedback from “myth-buster” event to inform the third developer event in Autumn and provide suggestions on the event theme and structure to Forum members.</b></p> <p>The Chair opened the floor to sort next plenary date and remind everything about the continuity of the forum after the end of the year.</p> <p><b>Action 2) Diarise plenary meeting in diaries and schedule steering group meetings.</b></p> <p>DESNZ asked when the steering group will start and the Chair confirmed he will speak to NECCUS and Aberdeen, with the view to have them start before the next plenary</p> <p><b>Action 3) Chair to follow up with NECCUS and University of Aberdeen regarding timelines to start steering groups.</b></p>
<p><b>8.0</b></p>	<p><b>NEXT MEETING DATES</b></p> <p>The Secretariat proposed next plenary for <b>Wednesday 6th September</b> at 10:00 – details to be confirmed but will likely be in-person in The Crown Estate’s offices.</p> <p>The Chair reminded members of the continuity of the Forum after the end of 2023.</p> <p>Future meetings dates will therefore be (diary invites to be circulated):</p> <ul style="list-style-type: none"> <li>• Wednesday 6th December 2023</li> <li>• Wednesday 6th March 2024</li> <li>• Wednesday 5th June 2024</li> <li>• Wednesday 4th September 2024</li> <li>• Wednesday 4th December 2024</li> </ul> <p><u>Question to Chair:</u></p> <ul style="list-style-type: none"> <li>• When will the steering groups start? (DESNZ)</li> </ul> <p>The Chair confirmed that he would like the steering group meetings to start before the next plenary session.</p> <p><b>Action 1) The Chair to follow-up with NECCUS and University of Aberdeen on timelines to schedule steering group meetings.</b></p> <p><b>Action 2) Circulate diary invites for future plenary meetings.</b></p>

<p><b>9.0</b></p>	<p><b>AOB</b></p> <p><u>Question to Chair:</u></p> <ul style="list-style-type: none"> <li>• Are you aware of the national security risks from increased infrastructure in the North Sea?</li> </ul> <p>RUK asked about conversations about national security and referenced Times article about mapping out defence. Increasing important assets in the North Sea – important to understand risks from infrastructure. Sits with MOD. RUK noted there is a forum on this.</p> <p>TCE noted we should take lead on Government.</p> <p style="text-align: center;"><b>MEETING END</b></p>
<p><b>10.0</b></p>	<p><b>USEFUL DOCUMENT LINKS</b></p> <p>Spatial Characterisation Workstream Summary &amp; Analysis:  <a href="https://www.thecrownestate.co.uk/media/4381/230428_ow-ccus-colocation-forum-report-spatial-characterisation-workstream-summary-and-analysis.pdf">https://www.thecrownestate.co.uk/media/4381/230428_ow-ccus-colocation-forum-report-spatial-characterisation-workstream-summary-and-analysis.pdf</a></p> <p>The Crown Estate Wind Site Agreements (England, Wales &amp; NI): <a href="https://opendata-thecrownestate.opendata.arcgis.com/datasets/thecrownestate::wind-site-agreements-england-wales-ni-the-crown-estate/explore">https://opendata-thecrownestate.opendata.arcgis.com/datasets/thecrownestate::wind-site-agreements-england-wales-ni-the-crown-estate/explore</a></p> <p>OW &amp; CCUS Colocation Forum plenary meeting documents and publications:  <a href="https://www.thecrownestate.co.uk/en-gb/what-we-do/on-the-seabed/energy/offshore-wind-and-ccus-co-location/">https://www.thecrownestate.co.uk/en-gb/what-we-do/on-the-seabed/energy/offshore-wind-and-ccus-co-location/</a></p>