



# UKCS TECHNOLOGY NETWORK

2<sup>nd</sup> March 2021



Oil & Gas Authority

OGTC



# Technology Network Meeting: Attendees

Aker	Kellas Mid Stream	Repsol Sinopec
Athena Exploration	Mytilus	Schlumberger
Bridge Petroleum	Neptune Energy	Serica Energy
Burgatee Exploratuin	NOV	Shell
Carjon	OGA	Summit E&P
Centrica	OGTC	Tailwind
Chrysaor	Opex Group	Taqqa
Decipher Energy	Parkmead Group	Worley
Equinor	Perenco	Zennor petroleum
Halliburton	Pharis Energy	
Hitachi	Premier Oil	
Ineos	Petrofac	
Ithaca		

# Technology Network Meeting: March

Pre-Read & Context		
Pre-Read: - No Context: - Technology Network - 2021 Recharge		
14:00 to 16:00		
1400	<b>Welcome,</b> - Roles & Organisational Pivots (OGTC & TLB)	Carlo/Steve
1415	<b>OGA Insights Presentation,</b> - Impactful Projects & Collaborations - Emerging Trends	Carlo/Rod
1500	<b>Function &amp; Rhythm,</b> - Playback of 2019 Managers Survey - Proposed 2021 Program	Carlo/Dave
1530	<b>Knowledge Dissemination,</b> - OGA, OGTC & TLB Activities/Proposals - Others & Awareness	Carlo/Dave
1550	<b>AOB &amp; Wrap-Up,</b>	Carlo/Steve
1600	Close	



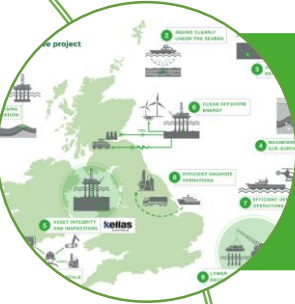
# OGTC Roadmap

## Technology for a Net Zero North Sea



Programme	Theme	Priority Areas	Outcomes by 2030
<b>Emissions Reduction</b>  Develop technology to reduce UKCS operational emissions to net zero	Field development Production, operations and logistics Late life and decommissioning	Subsurface Wells Facilities	<b>Reducing Subsurface Uncertainty</b>  50% reduction in scope one emissions from subsurface assessments and maximising subsurface recovery
<b>Energy System Integration</b>  Integrate infrastructure to create a net zero offshore energy system	Renewables and energy storage Hydrogen and other clean fuels Carbon capture, utilisation and storage		
<b>Offshore Energy 4.0</b>  Develop remotely controlled operations empowered by data, automation and robotics	Smart assets Field automation and remote operations Robotics and autonomous systems		





## Accelerating Deployment

- *Pursue Sponsor deployment plans*
  - Alt Barriers, NII, Decom
- *Landscape Awareness (Framed by 10 Grand Challenges)*
  - Collate/Commute/Promote best new “TRL 7&8” technologies in the landscape
  - Collate/Commute/Promote recent/needed Field Trials



## Data & Digital

- *Digital Systems*
  - Data & Digital Network
- *Shared Analytics*
  - Sector Proof of Concepts
- *Data Infrastructure & Architectures*
  - Offshore Energy Taskforce



## N. Sea Transition

- *Improved Ops,*
  - Electrification, CH4 leak detection, flare elimination, driving renewable integration - aligned to ASTF NZ Workgroup
- *Development & Deployment of a H2 & CCUS*
  - The value chain, driven by economic viability



# Technology Insights

45mins



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Authority

# Technology Insights 2020

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## Summary

*Technology Managers Network presentation*

2<sup>nd</sup> March 2021



# Function & Rhythm

30mins



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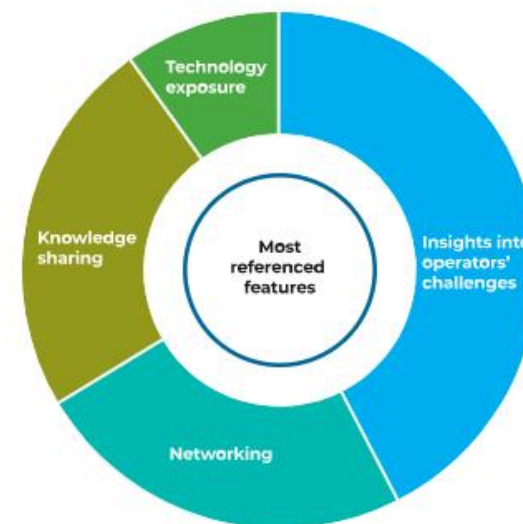
## UKCS TECHNOLOGY NETWORK

**The UKCS Technology Network meets regularly, with an aim to promote cross-industry dialogue on the adoption of technologies which can have a positive MER UK impact and beyond**

Network foundations are derived from the MER Strategy, specifically **Stewardship Expectations** where Technology Development is an Expectation.

The Technology Network perimeter strives to encompass Oilfield, Energy Transition and Enabling Technologies, ranging from Pre-Commercial to Commercial application, in support of MER Objectives and annual Technology Plan Submissions.

**This programme is run in collaboration among the OGA, the TLB and the OGTC.**



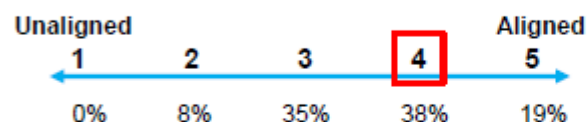
# UKCS Technology Network – Survey Feedback



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Q1: How relevant and useful is the UKCS Technology Network to you

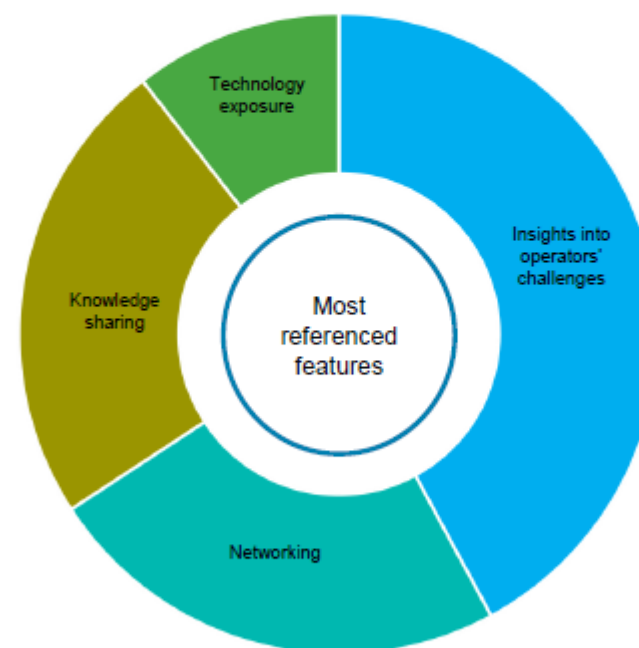


Q3: What do you like least about the UKCS Technology Network and what do you suggest we change?

## Highlighted suggestions for changes / additions to the network

Key comments	Key suggestions
Agenda too full	Allow more time for networking
Topics too focused	Less topic depth
Topics too broad	Prioritise technologies
Prioritisation	Actionable items

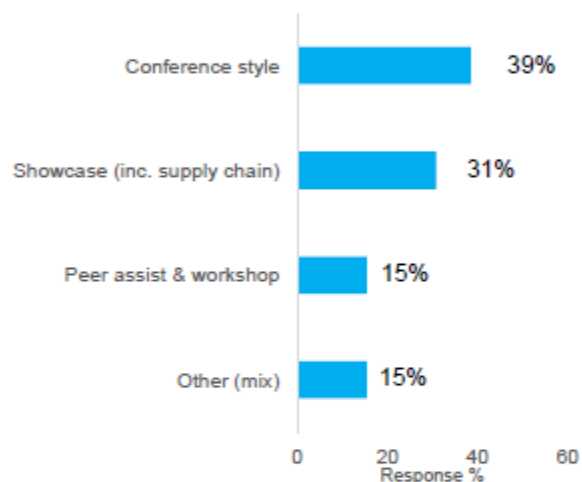
Q2: What have been the most useful features about the UKCS Technology Network



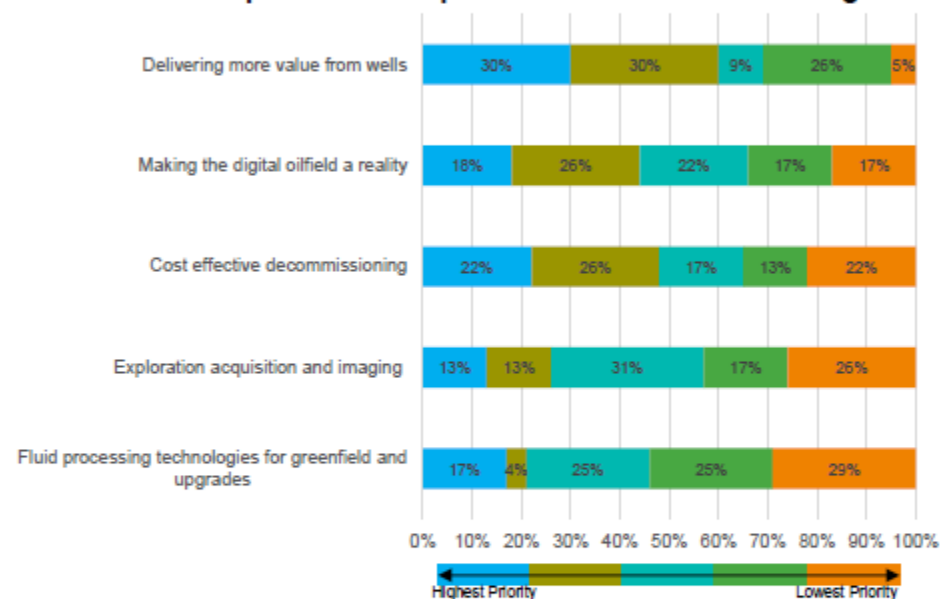
# UKCS Technology Network – Survey Feedback



**Q4: Regarding the format, for future meetings please select your preferred option from the following**



**Q5: Please help us select topics for the next few meetings**



**Q6: If you have any other suggested topics for future meetings**

- Stranded resources, undeveloped resources and potential hubs
- Other basins for novel technologies
- Other industries' technology solutions
- Maximising recovery from ultra mature fields
- Updating technology plans
- Reducing carbon footprint and transitioning
- Continuing production after platform decommissioning.

# UPCOMING EVENTS

	Tue 2 <sup>nd</sup> Mar	Tue 20 <sup>th</sup> April	Tue 8 <sup>th</sup> June	Tue 24 <sup>th</sup> Aug	Tue 5 <sup>th</sup> Oct	Tue 7 <sup>th</sup> Dec
Theme	Accelerating Deployment	Data & Digital	North Sea Transition	Accelerating Deployment	Data & Digital	North Sea Transition
Time	1400 - 1600	1000 - 1130	1000 - 1130	1000 - 1130	1000 - 1130	1000 - 1130
Action	Zoom	Zoom	Zoom	TBC	TBC	TBC
Outline Agenda	<ul style="list-style-type: none"> <li>• Recharge</li> <li>• Technology Insights</li> <li>• Knowledge Mgmt.</li> </ul>	<ul style="list-style-type: none"> <li>• Phase 2 Insights</li> <li>• Sector Actions</li> </ul>	<ul style="list-style-type: none"> <li>• Engagement Plan</li> <li>• Tech Threads</li> <li>• Insights Debate</li> </ul>	<ul style="list-style-type: none"> <li>• TRL Hopper</li> <li>• Trial Feedbacks</li> </ul>	<ul style="list-style-type: none"> <li>• Proof of Concepts</li> <li>• OLTER Progress</li> </ul>	<ul style="list-style-type: none"> <li>• TBC</li> </ul>

Typically - 60mins of Presentations with 30mins of Discussion or Networking





# Knowledge Management

*Opportunities/Forums*  
20mins



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- ❑ Seek to evolve Knowledge Management within the landscape
- ❑ Knowledge hosting concepts are proposed to encompass:
  - OGA - Insights web site
    - Live site, with regularly updated Case Studies
  - OGTC - Partner Portal
    - Exclusive space to access latest information on technology ideas, live projects, helpful resource and other membership benefits
  - TLB - Technology Bulletin Board/Forum
    - User name based – administered but semi-anonymous
    - Structured queries and discussion
      - Ask any technology question you like,
      - Share comments and post/threads of interest
    - Build an mutual support based Eco-system
  - Others - Technology Catalogue for example
    - Are you aware of others?

## OGTC Partner Portal

## OGTC Partner Portal

Technology  
Driving  
Transition

OGTC

Welcome to your OGTC Member Portal. This is your exclusive space to access our latest information on technology ideas, live projects, helpful resources and other membership benefits.

| Latest Member News | My Dashboard | Ideas | Live Projects | Events | Resources |



#### Welcome our latest members

New members joining us from April lorem ipsum dolor sit amet, no nummy consectetur...



#### Technology ready now

Visit our website  
use on offshore



#### Help shape our future

We are looking for  
at the OGTC in the



Applications are  
member, your  
companies make

## OGTC Partner Portal

Technology  
Driving  
Transition

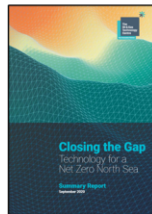
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#### Resources

OGTC produces a range of resources throughout the year to support our project activities and discuss our research.



Report

News Link

## OGTC Partner Portal

Technology  
Driving  
Transition

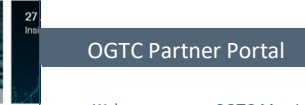
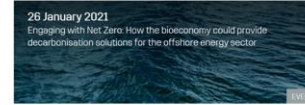
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#### Events Programme

OGTC organises and hosts an exciting programme of physical and virtual events throughout the year some of which are exclusive to our members.



## OGTC Partner Portal

Technology  
Driving  
Transition

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#### Ideas List

This is your opportunity to view our latest ideas and opportunities. You can also vote on, discuss these ideas with other members and offer your organisation's support.

Ideas

Sort By

##### Wastevu Ltd - RADTRAC (Phase 2)

Innovative waste management tracking solution, which enables the user to simplify, de-risk and revolutionise the end to end management of waste, redundant equipment, radioactive and hazardous materials for all locations, in one solution.



##### Ecosse IP - Ambient Lifter - Phase 3

Ambient Lifter is made from a coil of polyethylene pipe, with air/gas as buoyancy and water as ballast, separated by a specialist gel pig. Ambient Lifter is connected to a subsea item, water is expelled, air expands, buoyancy increases, and the object undergoes a controlled lift, without airbags or a crane vessel.



##### NOV - Subsea Storage Tank Trial

Subsea liquid storage at ambient pressure will unlock new opportunities as the subsea storage system can be placed at any water depth, is adjustable in capacity depending on development needs and greatly reduce CO2 emission compared to standard solution.



##### C-POWER Alba Ltd - Midwater Power: SeaRAY Autonomous Offshore Power System

Columbia Power Technologies (C-Power) is developing wave energy devices for 3 applications: dataRAY, a "dry" system providing watt-scale power (5-20 watts) for met-ocean and navigation buoys, located inside the buoy; SeaRAY, a kilowatt-scale, local power for resident, unmanned marine-vehicles and sensor payloads; StingRAY, a MW-scale...



# ❑ Proposal is for the TLB to offer a bulletin board solution, used as.....

- Lite Touch – OPEN, User Driven
- Questions, Shared Knowledge and Opinions



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\* See [Webasto heater help here](#) and [buy a diagnostic lead](#) from the shop \*

23rd Feb 2021 10:20 am
 


There are a total of **2198201** posts  
 We have **52473** registered users

Forum	Posts	Topics	Last Post
<b>Discovery Discussion</b>			
<b>General</b> Use this forum to discuss anything to do with the new Discovery	247115	19547	23rd Feb 2021 9:53 am <a href="#">Dave1LB1</a> ➔
<b>Photos, Videos &amp; Media</b> A place to post pictures, videos and other media of Discoverys in action	20289	1503	19th Feb 2021 9:20 pm <a href="#">carbone</a> ➔
<b>Wheels &amp; Tyres</b> Discussion about round things made of rubber and metal	58927	5268	21st Feb 2021 7:25 pm <a href="#">robenrose</a> ➔
<b>Tips &amp; Tricks</b> Member recommended tips and tricks for all aspects of the Discovery	6000	391	22nd Feb 2021 12:00 pm <a href="#">Ceekay</a> ➔
<b>Spotted</b> Post any reports of Disco spotting, including photos	26905	6433	22nd Feb 2021 10:12 am <a href="#">nigel207</a> ➔
<b>Off Roading &amp; Green Laning</b> Off-roading discussions including equipment, expeditions, green laning and off road sites	7916	696	21st Feb 2021 10:37 am <a href="#">gstuart</a> ➔
<b>Camping, Caravanning and Holidays</b> Discuss kit, sites, locations and more for those times you are away from home.	34622	2123	23rd Feb 2021 9:29 am <a href="#">Navigator</a> ➔
<b>Webasto Fuel Burning Heater</b> A section for all threads relating to the Webasto fuel burning heater (FBH) as fitted to European specification D3 and D4. Also for controllers, diagnostics, servicing etc.	6449	480	22nd Feb 2021 12:14 pm <a href="#">hotti</a> ➔
<b>IIDTool Help</b> Discuss use of the GAP Diagnostic IIDTool - hints, tips and questions	3214	333	21st Feb 2021 9:39 pm <a href="#">logche</a> ➔
<b>Land Rover Customer Relations</b> A dedicated forum for contacting LR Customer Relations Social Media team	4433	207	29th Jan 2021 1:59 pm <a href="#">pjm-84</a> ➔
<b>Discovery 5 - L462</b> Discussion of the 2017 onwards Discovery, code number L462	18202	558	18th Feb 2021 3:16 pm <a href="#">LT</a> ➔
<b>Discovery 3/LR3</b> <a href="#">hide</a>			
<b>Technical (D3)</b> Discussions about the technical details of Land Rover's Discovery 3	175323	18005	23rd Feb 2021 6:57 am <a href="#">M3DRQ</a> ➔



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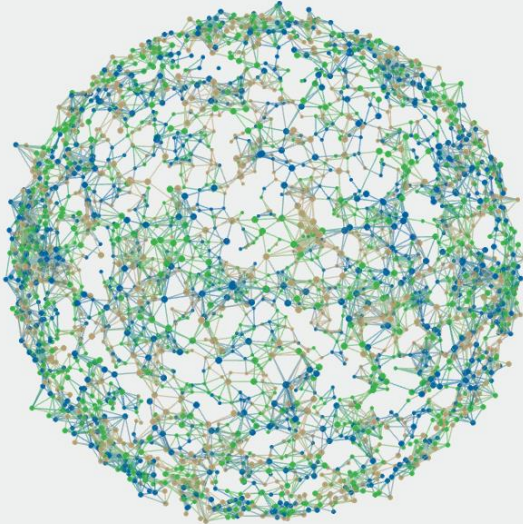
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Modules

Renewable Energy

Most relevant filters

Energy Transition (25)

Sustainability (25)

Other filters

Renewable Energy (49)

Maintenance (12)

Digitalisation (12)

Decommissioning (8)

Logistics (8)

Ports & Maritime (7)

Integrity (6)

Pipelines (2)

Production Chemistry (1)

Subsurface (1)


Wells (1)

Energy Transition (25)

Sustainability (25)

CO2 Emission Reduction (19)

Results 1 - 40 of 49




Motion Compensated Gangways (Telescopic Access Bridges)

Modular walk-to-work solution available for purchase and rent

COMPARE

VIEW TECHNOLOGY




Hot Air Turbines

Low impact power stations fuelled with biomass or waste

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Roboligger

Making lifting operations more efficient & safer for personnel

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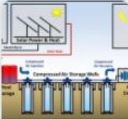


HIGA Fever Detection

Intelligent temperature measurements of people

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Cased Wellbore Compressed Air Storage for Renewable Energy

Innovative technology as a geo-energy storage system

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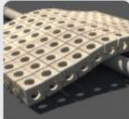


SoverSpine

Use AI to coach workers to self correct their movements

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Marinecrete Mattresses ("Marinemat")

Carbon Negative Subsea Protection

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Tidal Energy

Rotable vertical axis water turbine with increased efficiency

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Vessel & Access System Performance Transparency

Custom build measurement solution

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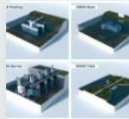


ZigZagSolar

Solar facade for energy efficient buildings

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Oryon Watermill

Modular Build Hydropower Plant

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Electric Truck with Range Extender

Defeating range anxiety

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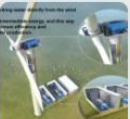


Rechargeable Floodlight

Wireless floodlights for increased productivity

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FreshWaterMill

Freshwater and electricity with one windmill

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EnergyPod

Clean alternative to diesel generators

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McNetiq Controlcork

Magnetic anchor for masts and scaffolding

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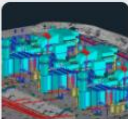


Inspection Pole Cam (IPU12)

Remote visual inspection of congested places with a telescopic pole

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3D Laser Scanning

3D laser scanner with advanced LiDAR technology

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Collision Tolerant Drone (DU360)

Drone inspection of confined spaces with Elio drone

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IntelliLock

Smart Access Control System for Wind Turbines

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Algorithms & Machine Learning

Tailor made algorithms and machine learning capabilities in the inspection process

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NoGrid Power

Modular, plug and play solar power for remote locations

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Pumped/Turbine Hydro Electric Storage System

Combining Dutch water management expertise with renewable energy in a whole new concept

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Clean, Reliable and Predictable Power Generation from Tidal Currents

Predictable and balanced renewable energy from tides and rivers

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Safety Snap Systems

Innovative warning barricade and signage system

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Personal Safety Monitor (PSM) Hero

Advanced technology at your fingertips

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# AOB & Wrap-Up

*Opportunities/Forums*  
20mins



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# BACK-UP



technology  
leadership board



# Technology landscape: *purpose*

Working  
DRAFT

	OGA	NSTF	TLB	OGTC	OGUK
Purpose	Deliver energy integration and MER UK	Deliver MER UK and Net zero	Accelerate UKCS technology deployment, with Digital and Net Zero Readiness	Develop and deliver technology for a Net Zero North Sea	Ensure role of technology in R2035 and Transition Deal in industry narrative
Core customers	<ul style="list-style-type: none"> <li>Oil &amp; Gas Operators</li> <li>UK Government</li> </ul>	<ul style="list-style-type: none"> <li>Governments</li> <li>Oil &amp; Gas Industry</li> <li>OGA</li> </ul>	<ul style="list-style-type: none"> <li>NSTF - Taskforces</li> <li>Oil &amp; Gas Operators</li> <li>Supply Chain Firms</li> </ul>	<ul style="list-style-type: none"> <li>Energy Industry</li> <li>Government</li> <li>Tech Developers</li> </ul>	<ul style="list-style-type: none"> <li>Oil &amp; Gas Operators</li> <li>Supply Chain Firms</li> </ul>
Action	Regulate	Instigate	Integrate	Innovate	Advocate
Key activity in 2021	Technology Managers Network				
	<ol style="list-style-type: none"> <li>New OGA Strategy</li> <li>Digital Energy Platform</li> <li>Technology Stewardship (deployment &amp; development)</li> <li>Energy Integration - Phase 3</li> </ol>	<ol style="list-style-type: none"> <li>Asset Stewardship</li> <li>Decommissioning</li> <li>Efficiency</li> <li>Exploration</li> <li>Supply Chain &amp; Exports</li> <li>Technology</li> <li>Wells</li> </ol>	<ol style="list-style-type: none"> <li>Accelerate Deployment</li> <li>Data &amp; Digital Programme</li> <li>North Sea Transition</li> </ol>	<ol style="list-style-type: none"> <li>Emissions Reduction</li> <li>Energy System Integration</li> <li>Energy Industry 4.0</li> </ol>	<ol style="list-style-type: none"> <li>North Sea Transition Deal</li> <li>Roadmap 2035</li> </ol>
Other key stakeholders	Crown Estates	OGET SLG	NSTF Taskforces	ORE Catapult	Renewable UK
	Ofgem	SOWEC	Industry - Operators	Other Catapults	Scottish Renewables
	National Grid	SOWIC	Industry – Supply Chain	Innovate UK	CCSA
	Marine Scotland	ESA	Energy NGOs	UKRI	SHFCA
		NSTF Task Forces	Government		ONE