



Offshore
Wind Evidence
+ Change
Programme

Offshore Wind Evidence + Change Programme

Programme Steering Group Meeting

Thursday 27 January 2022



Your feedback from our September meeting

Feedback	Response
<ul style="list-style-type: none">• Need to review process for project calls to see whether application process can be less resource intensive and whether project calls can identify specific issues that need to be tackled.	<ul style="list-style-type: none">• More detailed feedback on the project call process has been sought from lead organisations, the Project Evaluation Board and Programme Sponsors. A revised and simplified approach will be published in advance of any future project calls
<ul style="list-style-type: none">• Need to focus on outcomes - what does the world need to look like (with respect to planning, consenting and management) and what does the programme need to do to get there? Outcomes should also have long term use and applicability.	<ul style="list-style-type: none">• TCE have developed a draft Outcomes Tracker that details project outcomes. We will be looking to and assign owners to enable outcomes and drive change. On the agenda today.
<ul style="list-style-type: none">• Need to improve coordination with other programmes, such as P2G, to avoid duplication.	<ul style="list-style-type: none">• TCE, BEIS and Defra are members of P2G and closer working planned for the future.• Defra evidence planning and prioritisation is considering work of other programmes e.g. OWEC, EcoWind and P2G to avoid duplication. Recognise that this is a very busy space.
<ul style="list-style-type: none">• Clarity needed on how UK government is driving the agenda and more coordination at a high level to ensure we're moving in the right strategic direction (ie. making right policy choices, asking right questions, focusing on the right priority areas.)	<ul style="list-style-type: none">• BEIS and Defra working closely together with DLUHC. OWEAP is a joint programme between Defra and BEIS, steered by a cross government Programme Board.• Ministerial Delivery Group for Renewable Power is setting priorities for delivery against renewable power commitments and ambitions.• B4C Task Group established - led by Minister Greg Hands
<ul style="list-style-type: none">• Need to pool our experience to ensure mutual learning in how we approach things (ie what has worked, what hasn't; legal challenges; and reflecting on the different approaches in different parts of the UK).	<ul style="list-style-type: none">• Evaluation of Defra's OWEAP has commenced involving OWEC partners, will set out what has worked/not worked and what could be built on for the future. TCE have developed project closure pack template that highlight lessons learnt on a project by project basis. Appreciate always more can be done and welcome specific proposals.



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Programme Overview + Project Status



Launch of our first annual report

Our first annual report 2021
Published in January 2022



Offshore Wind Evidence + Change Programme

Unlocking the sustainable expansion of offshore wind in the UK



HM Government THE CROWN ESTATE

Our themes

Each project supports the overall programme mission and is delivered through one or more of four core themes, which emerged from a process of collaboration between the Programme Steering Group. The four themes are:

- Finding space for offshore wind in co-existence with other seaspace activities and uses, and a thriving marine environment
- Improving understanding of environmental impacts
- Safeguarding Marine Protected Areas through environmental regulations
- Investigating environmental benefits




Our year in numbers

- Over **£20.8 million** funding committed to 25 projects
- 3** projects completed
- 13** projects underway
- 27** member organisations in the Programme Steering Group including Scottish, Welsh and Northern Ireland government bodies, regulators, NGOs and industry
- 3** Programme Steering Group meetings
- Launched the first-of-its-kind **Offshore Wind Environmental Evidence Register** with the Joint Nature Conservation Committee and Defra
- Established **EcoWind research programme** in collaboration with Natural Environment Research Council and Defra

*Figures correct as of January 2022

"The UK's offshore wind sector is a vital part of the UK's drive to tackle climate change.

The power of wind is delivering clean energy for millions, opening huge opportunities for green growth and high-quality jobs and ensuring greater energy independence by moving away from volatile global fossil fuel prices.

We have been bold in setting world-leading carbon emissions targets and the Offshore Wind Evidence and Change programme is allowing us to work with key partners so we can go further and faster than ever before in deploying the technology of the Green Industrial Revolution."



Greg Hands MP
Minister for Energy, Clean Growth and Climate Change



What our members say

- **Jared Wilson**, Renewables and Energy Programme Manager for Marine Scotland Science in relation to the newly funded PrePARED project: "All this is only possible with the substantial financial support provided by the programme - without that we would have missed this unique opportunity to better understand environmental impacts and de-risk consenting of offshore wind in the UK."
- **Dr John Goold**, Director of Marine Evidence and Advice at JNCC: "The Offshore Wind Evidence and Change Programme has been a timely initiative and enabled us to contribute to the challenges facing offshore wind deployment and biodiversity protection in a collaborative and impactful manner. We have been particularly pleased to establish the Offshore Wind Environmental Evidence Register and we have valued the opportunity to contribute to the EcoWind science case. The programme is providing a valuable focus for cross organisational working towards shared goals."
- **Tony Juniper**, Chair of Natural England: "This UK-wide project will help realise our vision of a thriving marine and coastal environment alongside low impact offshore wind energy, tackling both of the climate change and nature emergencies together."
- **Melanie Onn** at Renewable UK: "The programme has enabled cross cutting and far-ranging conversations to address challenges."
- **Peter Barham**, Chair of the Seabed User and Developer Group: "The Offshore Wind Evidence and Change has produced real impetus and a catalyst for change."

"It's great to see the progress that the Offshore Wind Evidence Change programme has made in its first year, supporting the long-term adoption of offshore wind power. I am pleased that Defra is a key partner on this programme. Together we will work to achieve net zero commitments while protecting precious marine life."



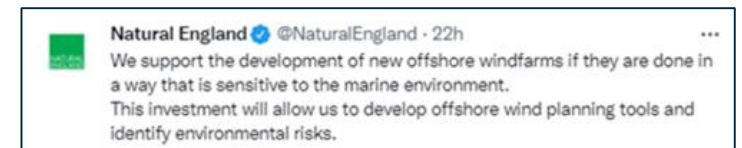
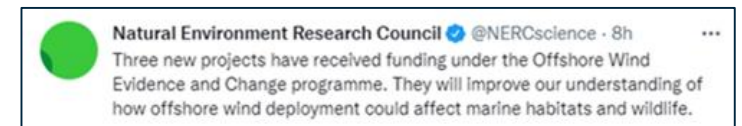
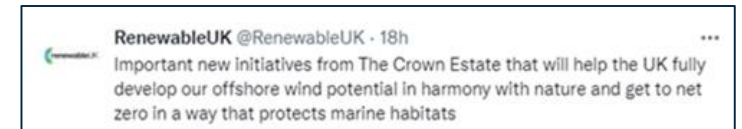
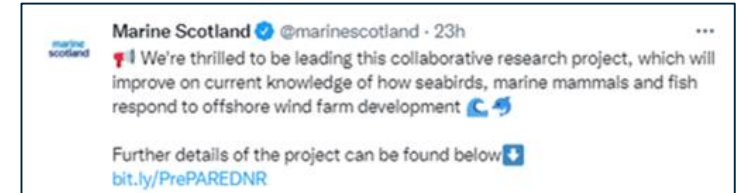
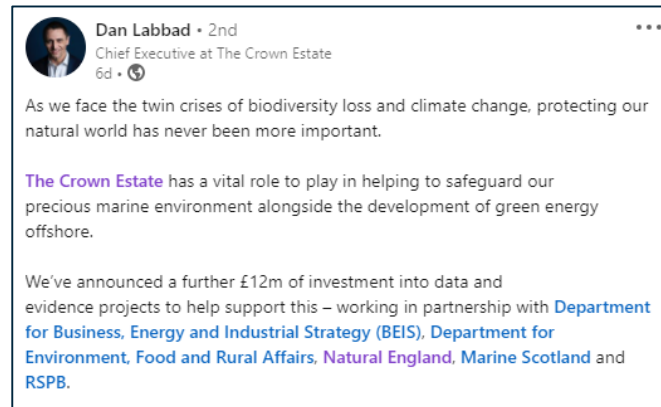
Rebecca Pow MP
Environment Minister, Defra




January's coverage of funding announcement - £12 million

Helpful pick up in the energy trades including **Offshore Engineer, renews, Energy Voice** and **Maritime Journal** with straight reporting of our release

Member support / endorsement on Twitter alone via our corporate posts reached over **32.9 thousand people** (in first 24 hours)



Project dashboard

- Projects completed this quarter
 - Strategic Targets for Net Gain in the Coastal and Marine Environment (SUDG)
 - 2nd Iteration of the Offshore Wind Environmental Evidence Register (JNCC/Defra)
 - North Seas Net Gain (almost!) (Cefas)
- Projects expected to complete in Spring
 - Future Offshore Wind Scenarios (CES and BEIS)
 - Fish and fisheries evidence gap analysis – awaiting publication (Marine Scotland)
 - Floating Offshore Wind and Fisheries – Virtual Windfarm Planning (National Federation of Fishermen’s Organisations, NFFO)

OWEC Projects Update

This dashboard contains updates since the September 2021 PSG meeting for the following projects:

- Projects completed
- Main Call £500,000 - £5,000,000
- Intermediate Call £50,000 - £500,000
- Discretionary up to £50,000
- Pathfinder started before 2021

All projects fit the OWEC Programme Core Themes

Spatial co-ordination and co-location	To improve the understanding of environmental impacts and benefits
To increase strategic coordination of different activities and interests in the seaspace and onshore, opening-up new opportunities for offshore wind through co-location and innovation allowing multi-use of space.	Strategic research, evidence gathering and data sharing projects to: reduce impacts, uncertainty and risk, foster innovation, enabling more offshore wind to be deployed with confidence that impacts will not impede recovery of the environment and preservation of our cultural heritage.
To investigate the derogation process to unlock further offshore wind deployment	Delivery of net environmental gains
To investigate the availability and use of the Habitats Regulations Assessment (HRA) derogation process and Measures of Equivalent Environmental Benefit (MEEB) to help the consenting of offshore wind whilst maintaining the integrity of Marine Protected Areas – including alternatives and compensatory measures.	To investigate the delivery of net environmental gains to evidence and secure the benefits of deployment of offshore wind.

Core themes for the Programme

Intermediate Call Projects (2 of 2)

Project	Purpose	Theme	Lead Org & Partners	Status
3. Reducing uncertainty of multiple stressors within OWF EIAs for floating offshore wind	The overall purpose of the programme of works is to support future transition to floating offshore wind technology the UK's low carbon energy transition ambition. The projects will aim to	Improve understanding of environmental impacts and benefit	CEFAS	Funding application (PIPv2) expected to be received by 21 January 2022

Projects completed (2 of 2)

Project	Purpose	Theme	Lead Org & Partners	Outcome / Impact
3. Strategic Targets for Net Gain in the Coastal and Marine Environments	To identify and agree clear strategic targets for the improvement and restoration of the marine environment which are used as a basis for determining net gain for the industry and other marine industry sectors	Net Environmental Gain	Seabed User and Developer Group (SUDG) in collaboration with a task and finish group. Consultancy services provided by ABPMer	Link to full report published October 2021 The outcome of the project is a robust set of recommended strategic targets for Marine Net Gain (MNG), which have strong consensus and agreement from industry, regulators and conservation bodies. The targets set a clear direction for how developers could contribute towards MNG to restore and improve the marine

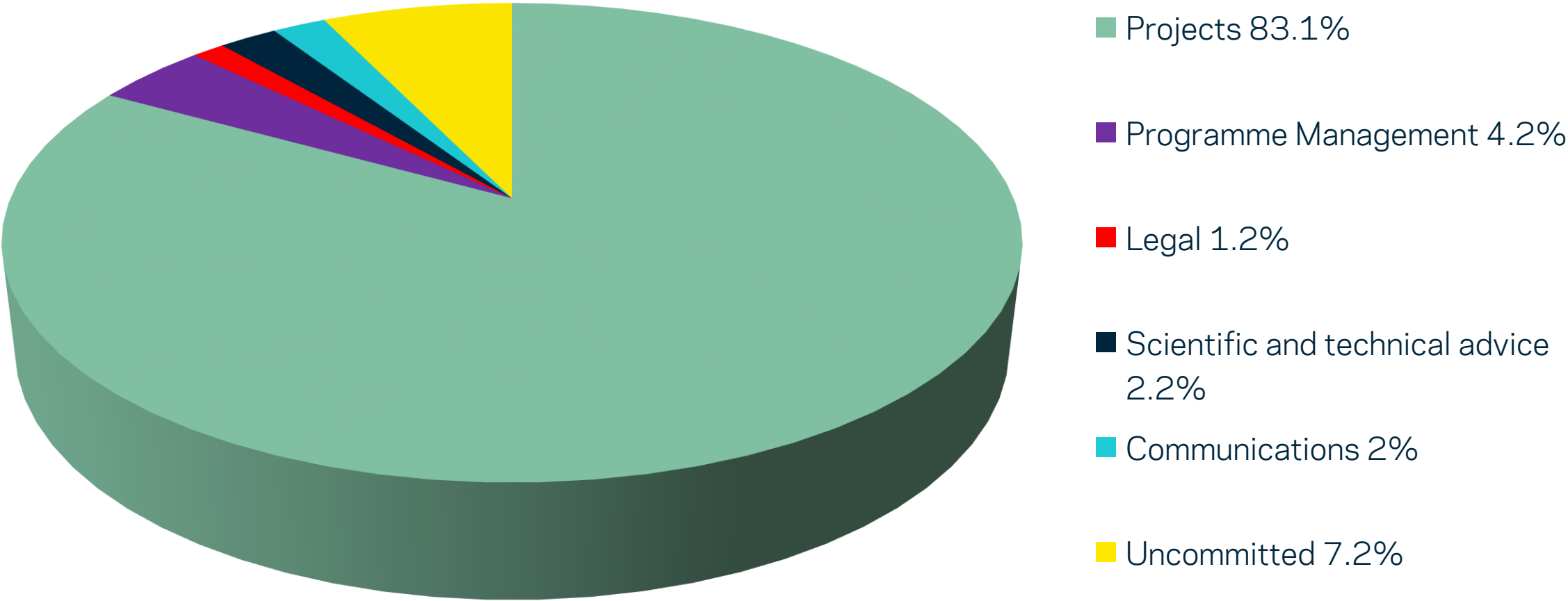


Forward Look

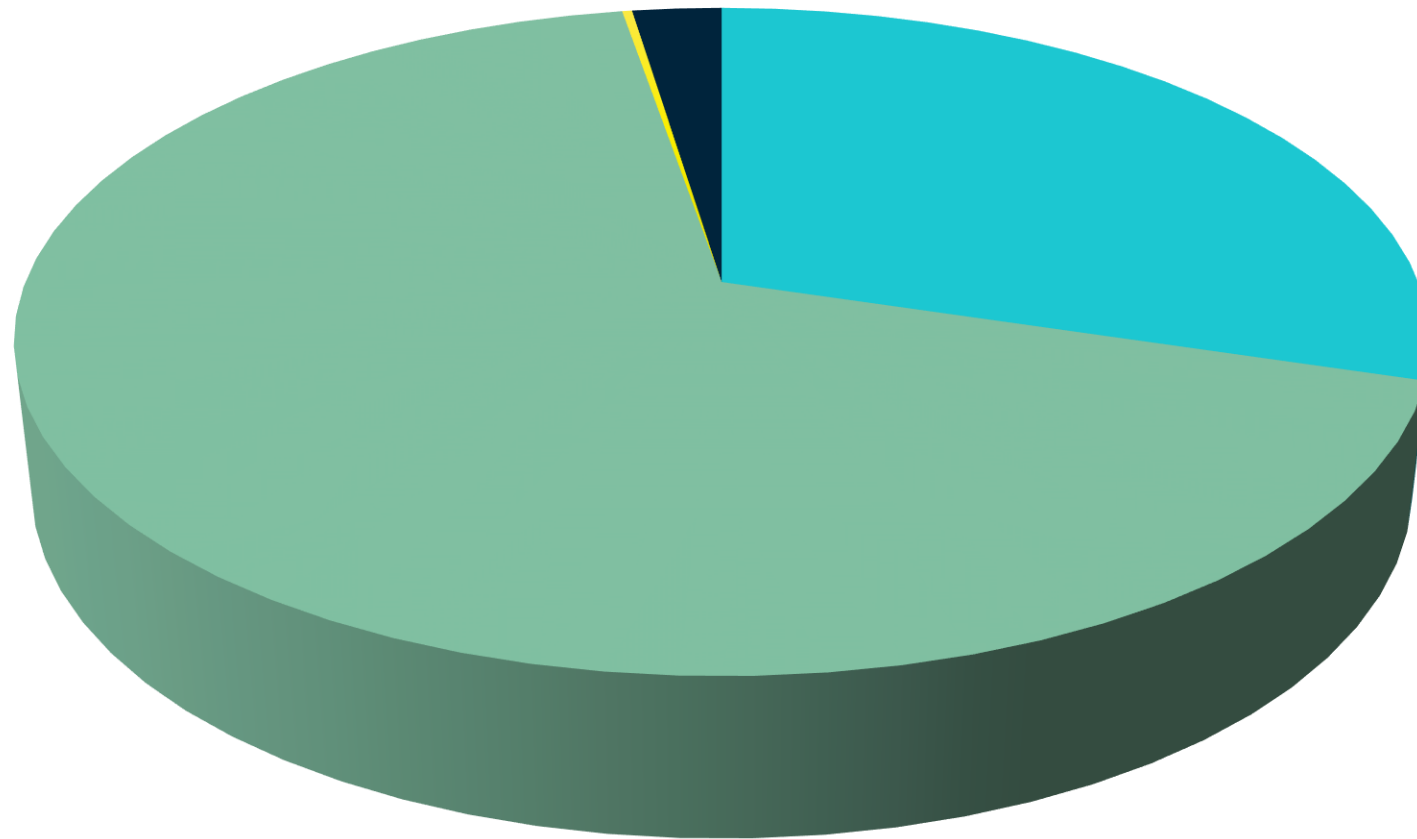
- Changes to project calls process
 - Your feedback - simplification, shorter process
- Programme Steering Group meetings
 - 19 May
 - 28 September
- Next newsletter - end of February/early March



Programme commitments -from £25m



Project commitments by theme



- Spatial co-ordination and co-location 30%
- Improving the understanding of environmental impacts and benefits 67%
- Investigating the derogation process to unlock further offshore wind deployment 1%
- Delivery of net environmental gains 2%

Many projects contribute to more than one theme. Such projects were allocated to the theme that they *most* contributed to.





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ScotWind Leasing Update



ScotWind – next steps



74

Applications
from bidders

17

Projects
selected

7,000km²

Total seabed area offered
as options



Crown Estate
Scotland

Oighreachd a' Chrùin Alba

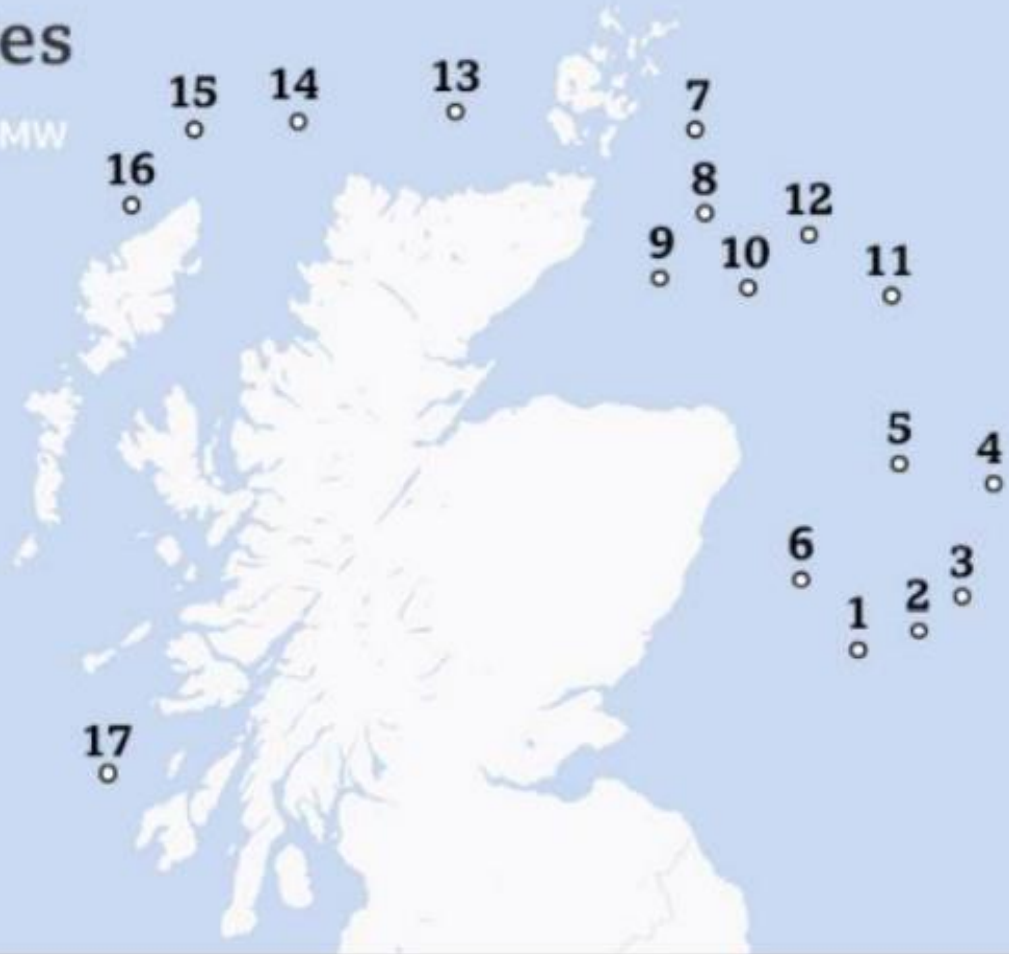
£700m of option fees will
go to public spending

£Billions of investment
expected in Scottish
supply chain



ScotWind Awarded Sites

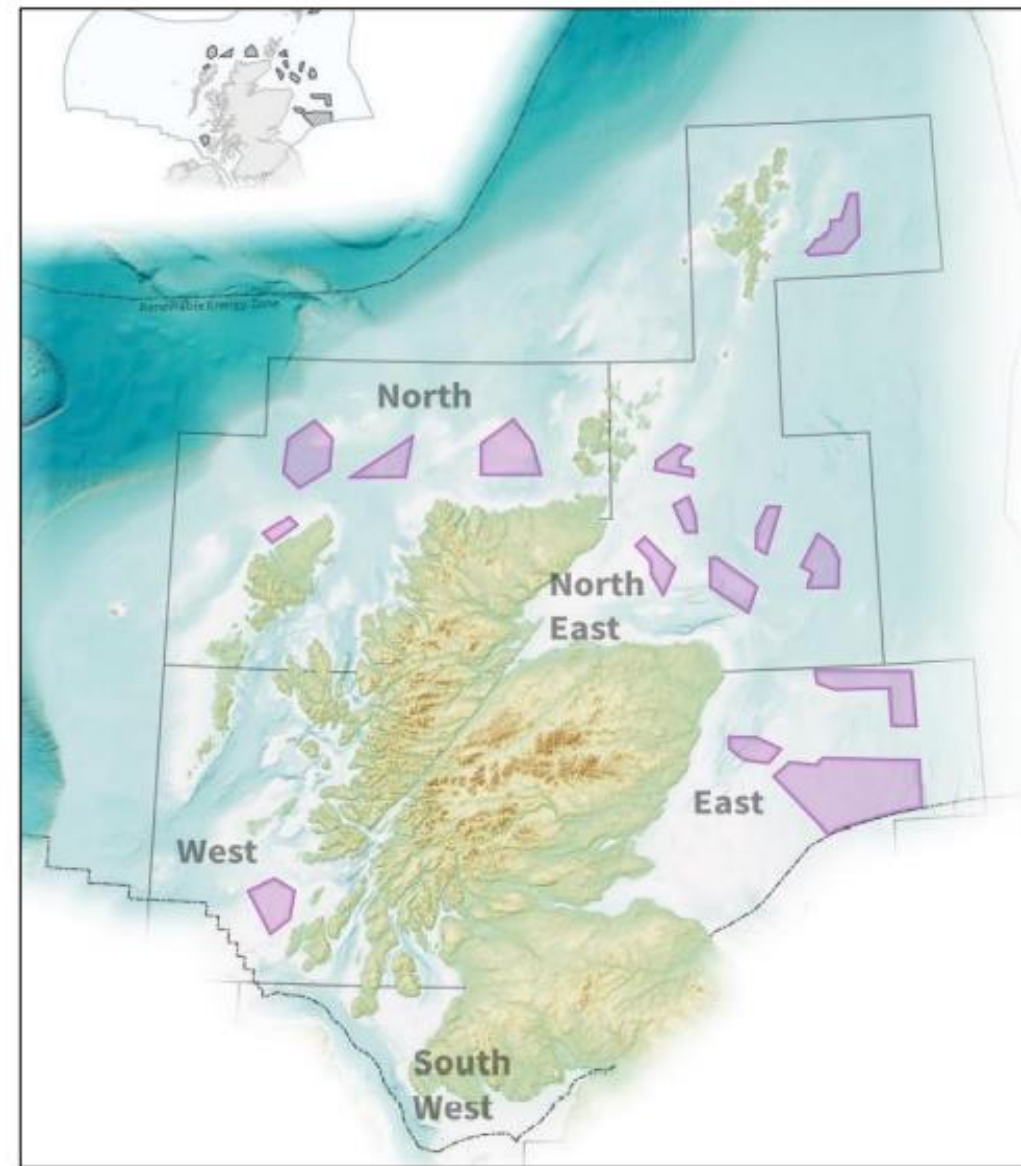
- 1 BP Alternative Energy Investments 2,907MW
- 2 SSE Renewables 2,610MW
- 3 Falck Renewables 1,200MW
- 4 Shell New Energies 2,000MW
- 5 Vattenfall 798MW
- 6 DEME 1,008MW
- 7 DEME 1,008MW
- 8 Falck Renewables 1,000MW
- 9 Ocean Winds 1,000MW
- 10 Falck Renewables 500MW
- 11 Scottish Power Renewables 3,000MW
- 12 BayWa 960MW
- 13 Offshore Wind Power 2,000MW
- 14 Northland Power 1,500MW
- 15 Magnora 495MW
- 16 Northland Power 840MW
- 17 Scottish Power Renewables 2,000MW



Lead Developer	Number of Options	Cumulative MW
Scottish Power Renewables	2	5,000
SSE Renewables	1	2,610
Shell	1	2,000
Vattenfall	1	798
BP Alternative Energy Investments	1	2,907
Falck Renewables	3	2700
Northland Power	2	2340
DEME	2	2016
Offshore Wind Power	1	2000
Ocean Winds	1	1000
BayWa	1	960
Magnora ASA	1	495
		24,826

Next Steps

- Successful Applicants expected to sign Option Agreements in **April 2022**.
- Possible **clearing process** for suitable sites where there are no Options Agreements.
- Option Agreements are just the **first stage in a long process** of project development, financing and consenting
- Sectoral Marine Plan will guide decisions on consenting, **only viable and consented projects will get a lease**



APPLICANT / DEVELOPER

IDENTIFY POTENTIAL
PROJECT SITE



APPLY FOR OPTION AGREEMENT

OPTION AGREEMENT SECURING
RIGHT TO INVESTIGATE SITE

COMMIT RESOURCES
TO INVESTIGATE SITE

PREPARE CONSENT APPLICATIONS

CONSENTS SECURED

REQUEST LEASE

LEASE

BUILD PROJECT



CROWN ESTATE SCOTLAND

EVALUATE APPLICATION

AWARD OPTION AGREEMENT

GRANT LEASE (if all conditions met)

REGULATORS

ASSESS CONSENT APPLICATIONS

AWARD CONSENTS

Stimulating Supply Chain

- **Supply Chain Development Statement** mandatory for all applicants – sets out intentions for each proposed project. Information will be shared to help coordinate activity
- The initial **SCDS Outlook** will be published once the Option Agreements are signed. It must be updated periodically.
- **Contractual remedies** in the Option Agreement provide an incentive to applicants to achieve the commitments they have made.



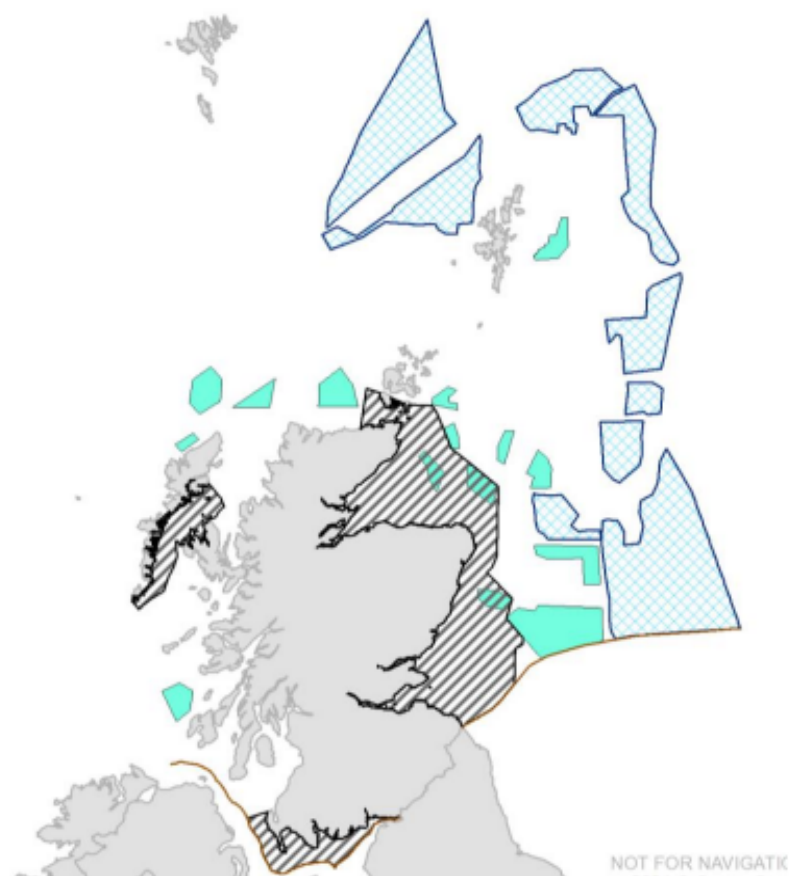
INTOG

- Help transition O&G to green energy; support small scale innovation
- Marine Scotland planning consultation closed Oct, further information on leasing once final plan is published.

Different to ScotWind

- **ScotWind** – over 100MW, commercial
- **Innovation** – pre-commercial, less than 100MW
- **Targeted Oil and Gas** – can be over 100MW, must provide electricity to platform to decarbonise O&G production
- Planning & leasing in parallel, developers will be awarded Exclusivity, but only Option Agreements if in Final Plan

INTOG Areas





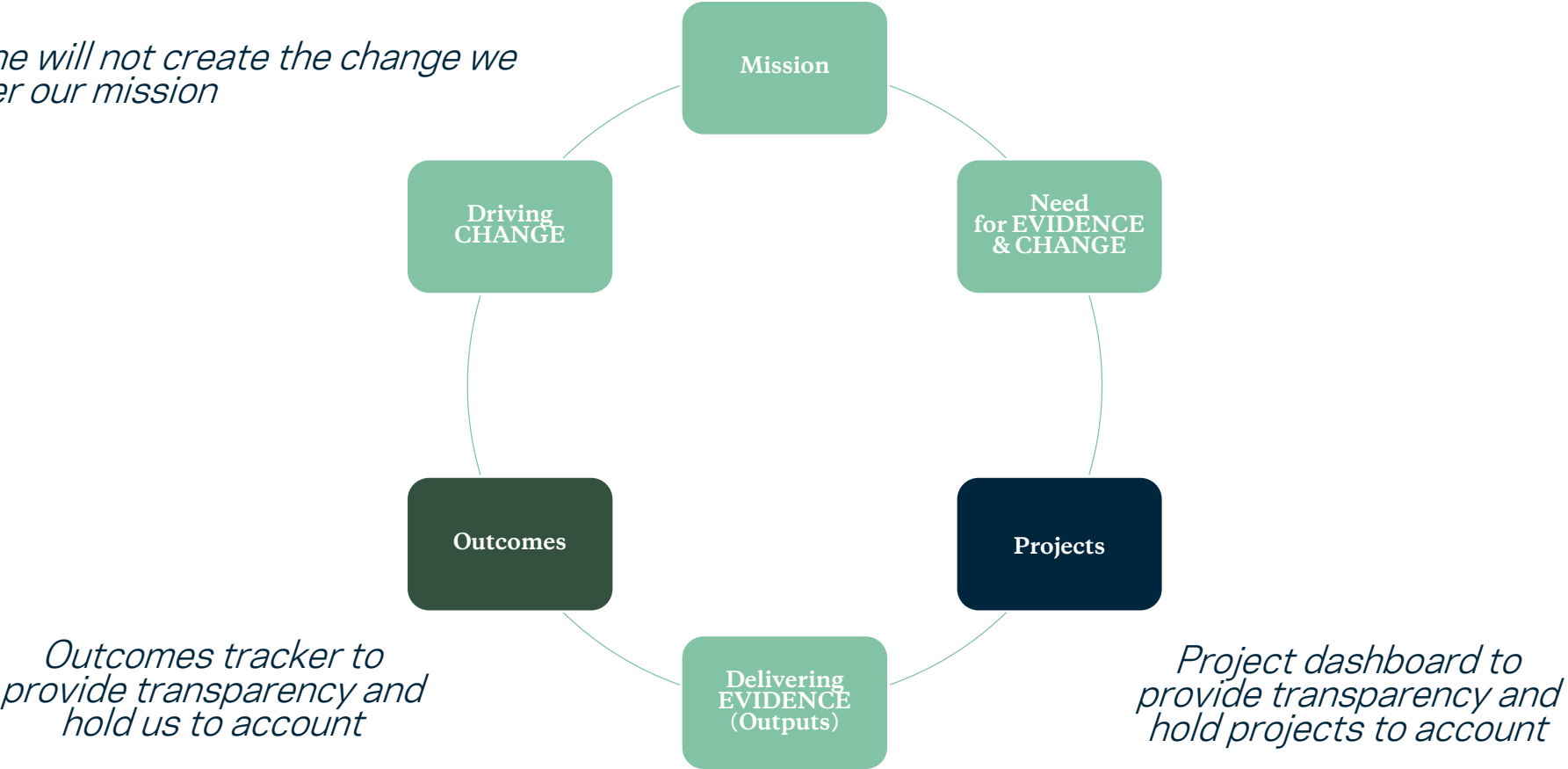
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Introduction to the Outcomes Tracker



Outcomes Tracker - critical in the *process of change*

Evidence alone will not create the change we need to deliver our mission



Outcomes Tracker - Measuring Impact - Assurance of Change

Draft for discussion & evolution with PSG

Project name	High Level Outcome	Impact & Measurement Method	Responsible (Outcome Owner/s)
MOD/OWIC Air Defence Mitigation (PIP-001)	To demonstrate the practical performance of technical mitigation solutions to overcome adverse impacts of windfarms on current air defence systems that might support offshore windfarm developments in the 2025-2030 timeframe, and beyond.	Developers able to progress CfD applications/take final investment decisions with 'acceptable' mitigation solutions agreed with the MoD.	D&OW Windfarm Mitigation Task Force
East Coast Grid Spatial Study (PIP-002)	Inform evolving policy and regulatory arrangements for offshore transmission specifically around the increasing importance of considering the marine spatial context for future development activity.	The report is seen to be used (e.g. through reference) to inform policy development and the study methodology is replicated elsewhere.	National Grid ESO (through its current Holistic Network Design, which is factoring in environmental considerations and constraints); TCE (to inform Future Leasing)
North Sea Net Gain (PIP-003)	Provide a comprehensive benthic biodiversity evidence base and an international toolkit to enable better decision making to improve biodiversity in windfarms.	SNCBs are reviewing their data sources in terms of environmental interaction with OSW decisions, in particular the incorporation of "big data" and enabling cross-boundary views of environmental impact. Consideration being given to how this type of project may be undertaken elsewhere.	SNCBs (JNCC and Natural England)



Outcomes Tracker - Next Steps

- Validate with project leads and responsible owners
- Circulate to Programme Steering Group
- Review at May Programme Steering Group
- Ongoing monitoring at PSG alongside Project Dashboard

Improvements:

- single point accountability
- reliable tracking of progress/health



Evidence alone will not create the change we need to deliver our mission





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Analysis of Results from Future Needs Assessment



PSG survey - future needs

- Thank you to all members who responded
- Carried out in late 2021
- Excellent response rate – virtually all PSG member organisations
- Detailed, thoughtful, positive and challenging
- All feedback received and considered and being fed into next steps planning

Outputs

- High-level summary report to provide a snapshot
- We recognise that there is more technical detail, which is not being overlooked



25 interviews conducted



5 written questionnaire responses



1. Are the outcomes and themes still broadly valid?

- Themes are still relevant and valid
- Some specific themes of particular relevance to respondent's organisation
- Potential need to evolve, refresh, expand in future
- Co-location, derogation and net gain were common threads for future focus
- Some specific comments on Future Offshore Wind Scenarios, Floating Offshore Wind, marine spatial prioritisation and the role of the Governments.

"All four themes are still very much relevant."

"We need to focus on the pathway to 2030 and onto 2050 and what we need to be doing right now to achieve that goal – it is about the immediate problems ahead of us and this should be our priority."

"The OWEC programme is fantastic and really important. Without it, there would be so many questions unanswered or decisions would be made without having all of the relevant information required to make a truly informed decision."

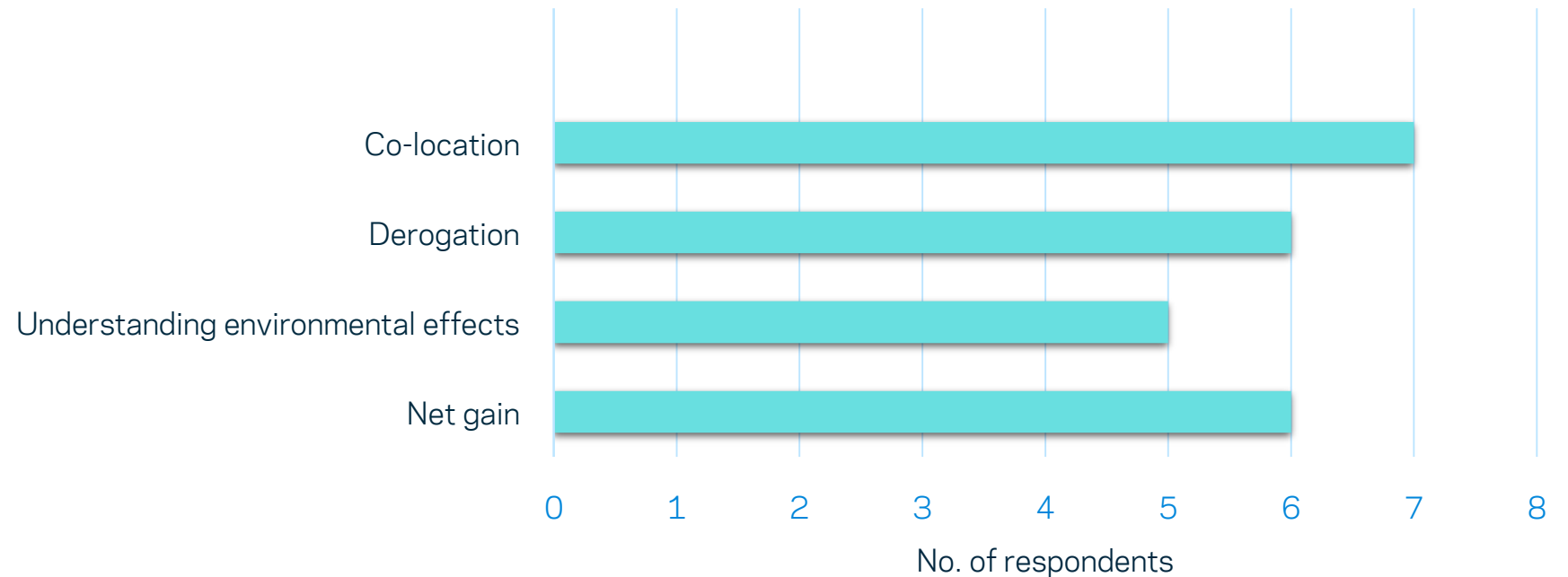
"Spatial prioritisation is the most important theme as we need to decide what we want our seas to look like by 2050."



2. Are the priorities still correct? Do we need to prioritise anything else?

"All of the themes are related"

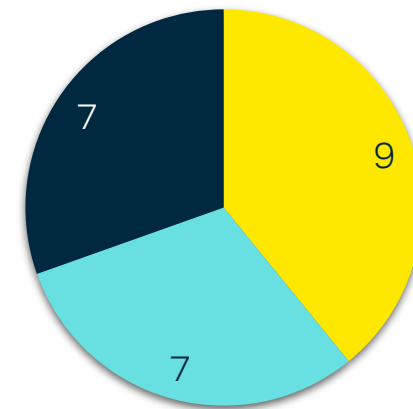
Snapshot summary of key themes identified by PSG member organisations



3. Future projects

- Many of you would bring forward projects, if funding were available.
- Wide support from you to continue to engage and support e.g. on project advisory groups, even if no plans to bring forward projects
- In some cases, you do not have the resources to lead a project through the application process – request for simplification/support
- Specific reference to new projects: floating offshore wind; grid connection; spatial co-ordination and co-location; strategic monitoring; net gain; seabird compensation and habitats and navigation safety (cumulative effects)

PSG member organisations who stated an intention to bring forward new project(s)?

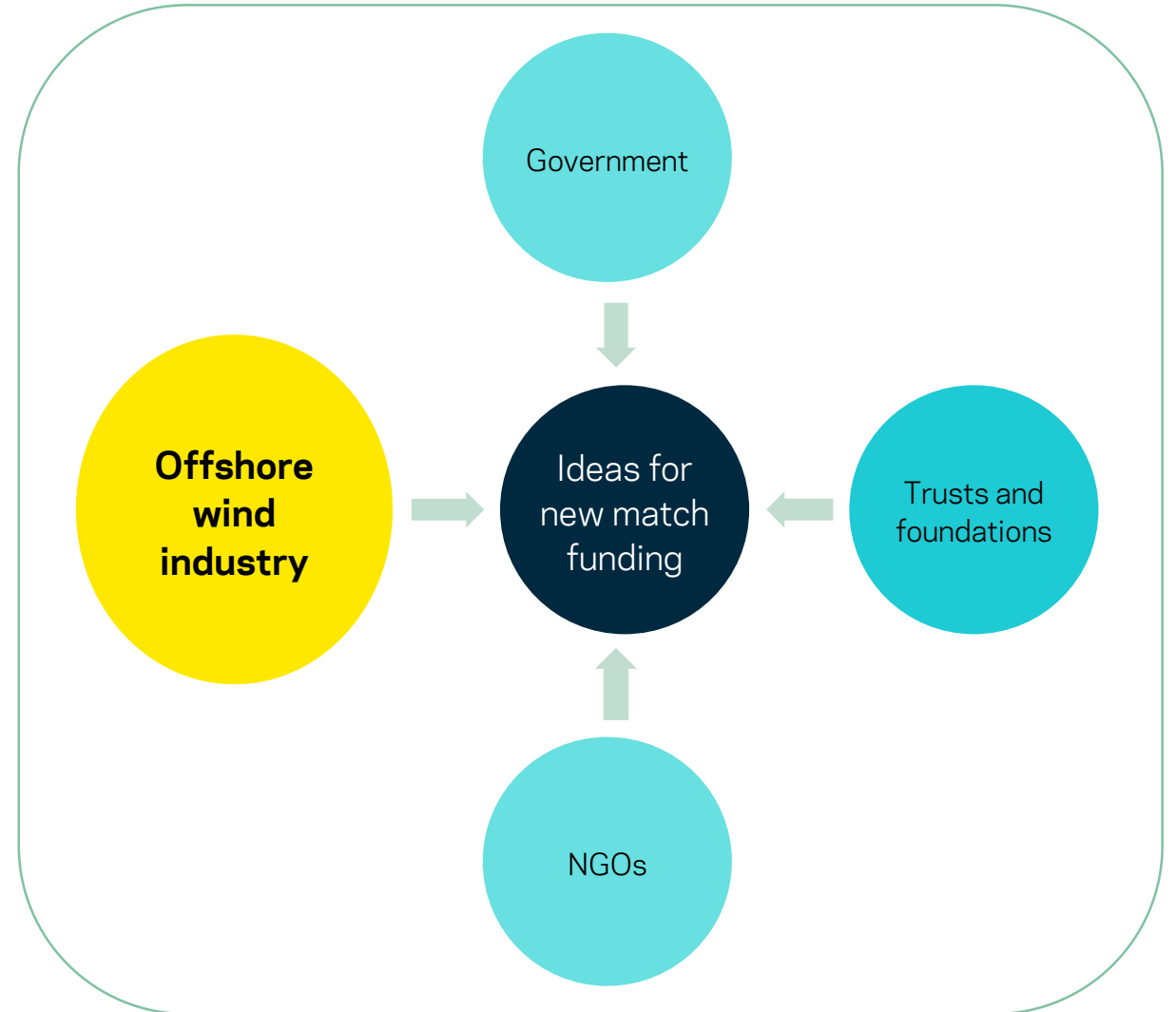


■ Yes ■ Potentially yes ■ Unlikely or no



4. Match funding

- Most common view was that industry are best placed to provide match funding for future projects
- Those members unable to commit match funding confirmed in-kind support via time and expertise
- Flagged that any future requirement for fixed levels of match funding could present a barrier to projects.



5. Further / general comments

- Wide support for the programme, its ambitions, its collaborative nature, and quality of discussions and member contributions
- OWEC identified as only vehicle for funding significant projects of this kind
- PSG membership identified as a key asset – is this a strength or is the size of the group a challenge?
- Received feedback that project call process could be simplified – being addressed

"OWEC is a really valuable and positive programme."

"The programme has created a very positive call to arms by all the members. All organisations 'pointing at the same target!'"

"We need to make the most of the time of the stakeholders who already feed into the PSG and improve collaboration with different stakeholders beyond the OWEC framework."

"The OWEC programme should adopt even more of a convening role and become a 'power for good'."

"There should be more of a focus on real outcomes and speed up the work to keep pace with offshore wind deployment."

