



Offshore Renewable Energy

Annual Assembly, July 12th 2023









ECOWind Champions









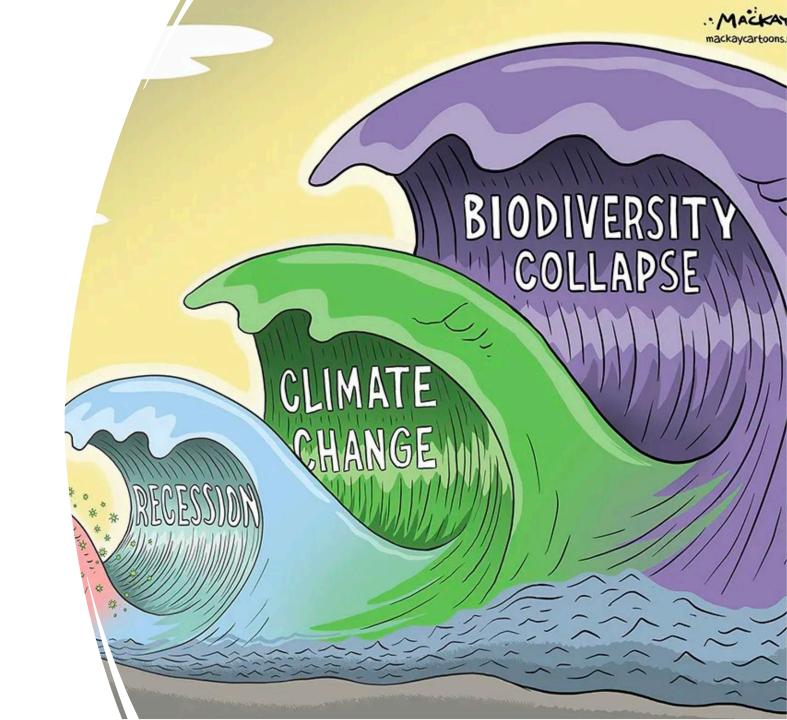
Dickon Howell

Henk van Rein

Hayley Hinchen

Kimberley Lloyd

Why ECOWind...?





The Ecological Consequences of Offshore Wind

ECOWind's research aims to understand how OWFs affect ecosystems, and the species and habitats that make them...

and by better understanding this to influence the development of policies to better manage our marine environment...

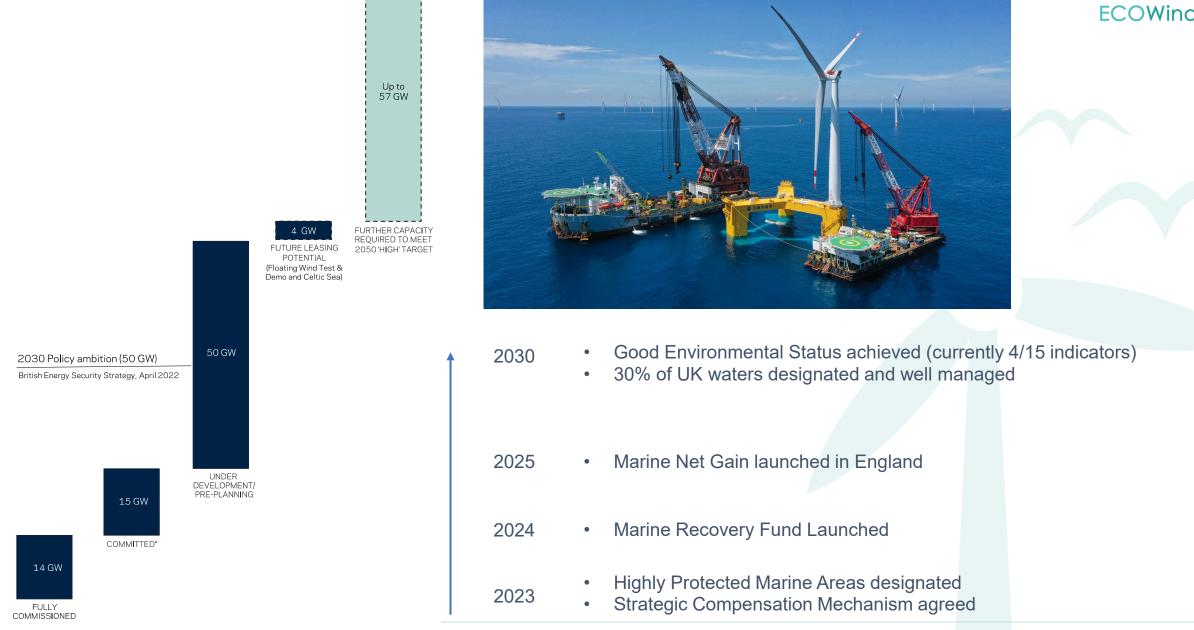
...while also tackling climate change





Climate Change Committee, December 2020 Range - 65-140 GW, 'Balanced Pathway' = 95 GW





* Projects under construction or that have government support on offer e.g. Contract for Difference OR taken FID

		2022	2023			2024				2025				2026							
		Q3 (24	Q1	Q2	Q3 Q	4 (Q1	Q2 (Q3 (Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
POLICY	Activity		- 1													1					
General/local elections	Purdah																			Prior	ity for alignment
British Energy Security Strategy	Published																				High
- OW Environmental Improvement	Evidence gathering		-	-	-	e gatherir	-														Medium
	Delivery																				Low
	Launch																				
UK Marine Strategy	Part 3, programme of measures published																				
	3rd implementation cycle																				
	Monitoring programme published																				
Marine Net Gain	Scoping																				
	Delivery																				
Highly Protected Marine Areas (HPMA)	Delivery																				
Strategic compensation pilot programme	Design																				
	Implementation & monitoring																				
Consenting process	Activity																				
Round 4	Plan HRA agreed			\star																	
	Project design development /EIA evidence gathering					<u>.</u>											Þ			Deliv	ery milestones
Round 3	Consents	•																		7	Agreement for lease
	Extensions					•															EIA scoping submission
Floating Offshore Wind (FlOW)	Spatial design, evidence & data gathering																				Consent agreed
	Plan HRA agreed					7	K														Procurement & CfD
	Project design development /EIA evidence gathering									<u> </u>									.	•	DCO application submission
ScotWind	Plan HRA agreed			\star																	
	Project design development /EIA evidence gathering						<u>)</u>	>										•			
Innovation & Targeted Oil & Gas (INTOG)	Offer of Exclusivity Agreements	•																		•	Application deadline
	INTOG Marine Spatial Plan publication								•											•	Option Agreement

ECOWind Programme



To understand how fixed offshore wind expansion, combined with other anthropogenic pressures, affects species interactions and marine ecosystems to enable robust approaches to marine environmental restoration and net environmental gain

ECOWINGS

Ecosystem change, offshore wind, marine net gain & seabirds

Francis Daunt, UK Centre for Ecology & Hydrology

ACCELERATE

Ecological implications of accelerated seabed mobility around windfarms

Katrien Van Landeghem, Bangor University

PELAgIO

Physics to ecosystem level assessment of impacts of offshore windfarms

Beth Scott, University of Aberdeen

BOWIE

Sustainable expansion of offshore wind while protecting benthic biodiversity & functional value Martin Solan, Southampton University









What is impact?

UKRI



Academic impact is the demonstrable contribution that excellent research makes to scientific advances, across and within disciplines, including significant advances in understanding, method, theory and application.

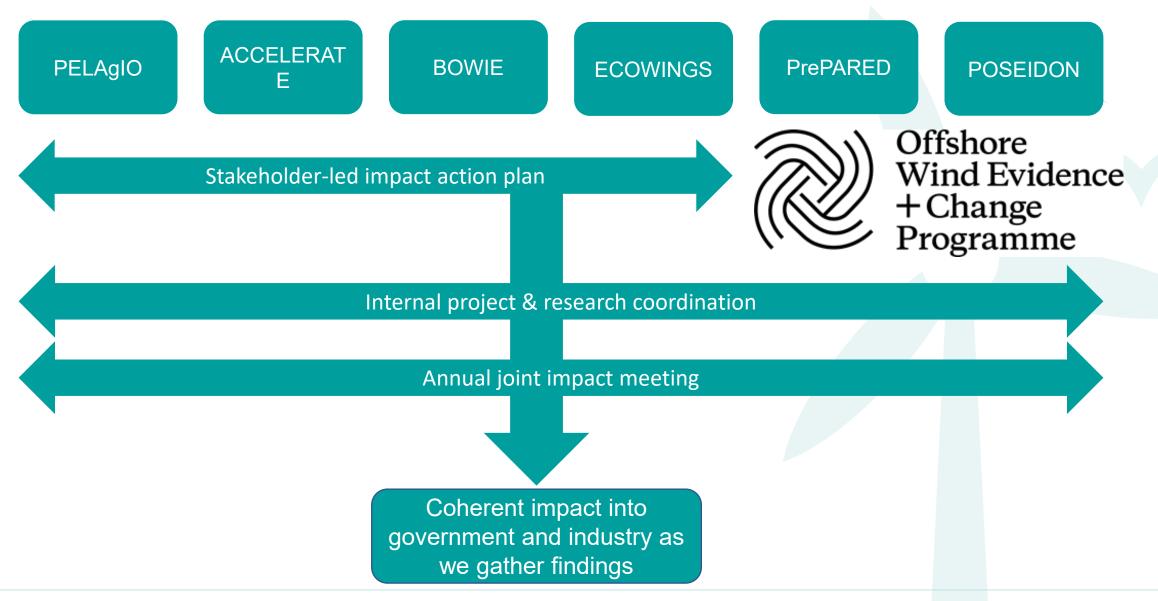
Economic and societal impact is the demonstrable contribution that excellent research makes to society and the economy, of benefit to individuals, organisations and nations.

Government

Impact is shown by research that can contribute to decision making and enable the development and delivery of government policy outcomes

Delivering a coherent programme





ECOWind can understand ecological impacts & trade-offs...

But can we engineer differently to avoid compensating?





www.ECOWind.uk | Champions@ECOWind.uk







