



equinor

# Hywind Scotland Fisheries Co-Existence Pilot

ScotMer East Coast Offshore Wind Farm Developers Symposium

3rd and 4th March 2020

Victoria Quay Edinburgh

Monica Fundingsland

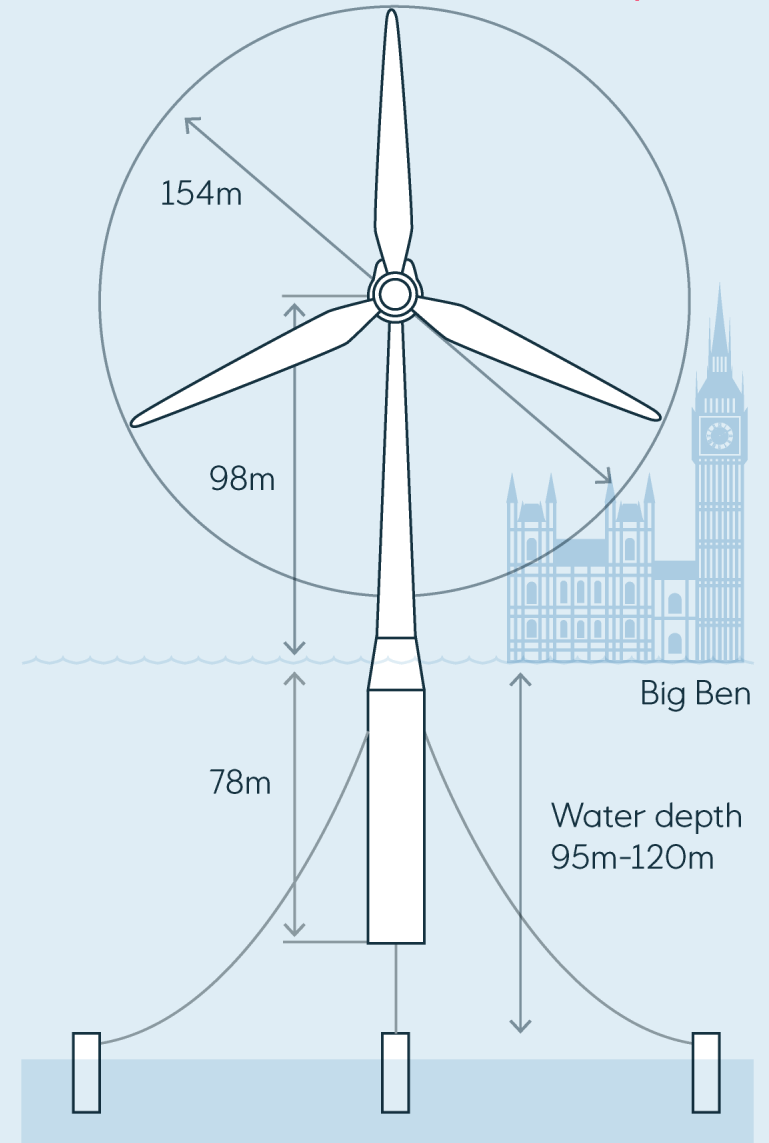
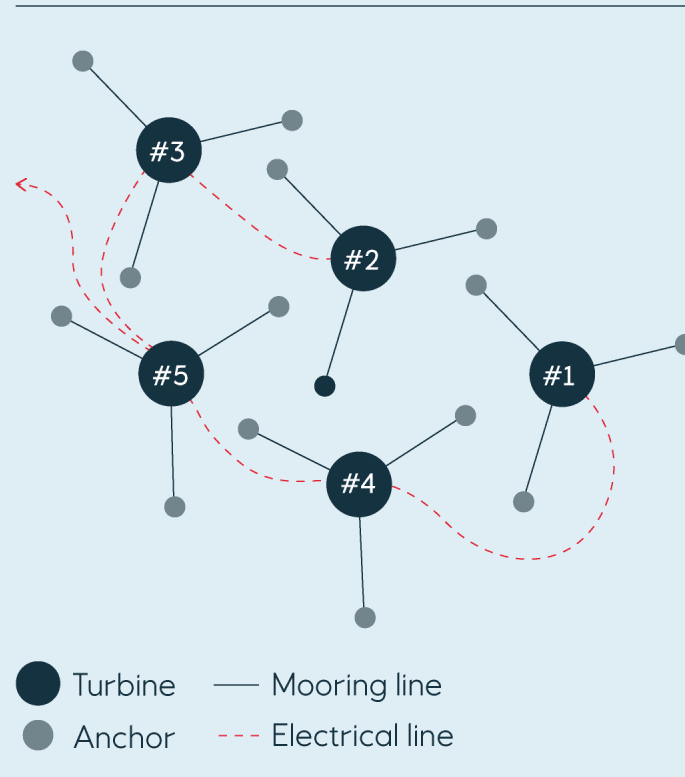
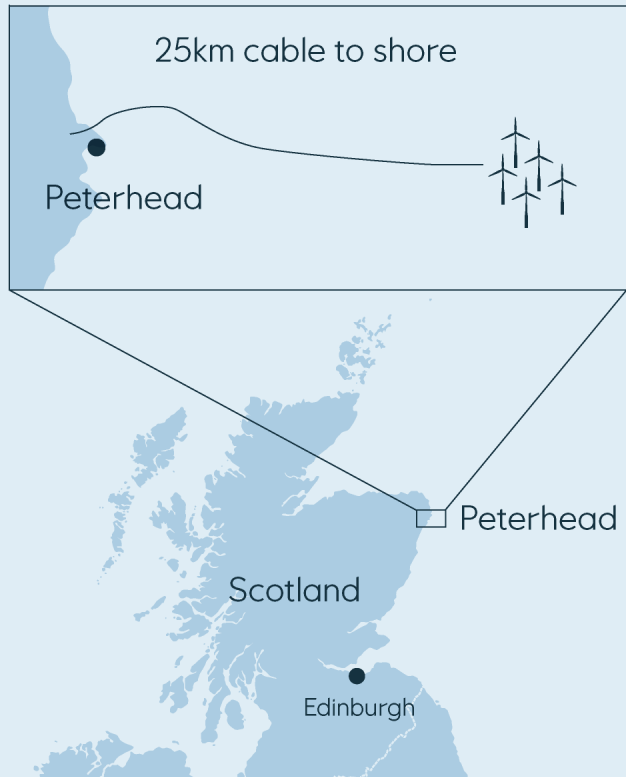
[mofun@equinor.com](mailto:mofun@equinor.com)

# Growth based on our offshore experience and capabilities

	Bottom-fixed			Floating		
Producing	 Sheringham Shoal 317 MW	 Dudgeon 402 MW	 Arkona 385 MW	 Hywind Scotland 30 MW		
Pipeline	 Dogger Bank (UK) 3.6 GW	 U.S. East Coast >4 GW	 Poland ~2.5 GW	 UK Extensions 720 MW	 Hywind Tampen 88 MW	 Positioning for growth 12 GW potential by 2030

# Hywind Scotland Floating Offshore Wind Farm

- The world's first floating wind park (Sep'17)
- Installed Capacity 30MW: powering ~20,000 UK homes
- 60-70% cost reduction from Hywind Demo



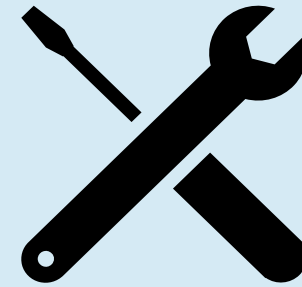
# Multi use innovation project

- Equinor NES Innovation Lab established a small team in 2018 to investigate the concept of “multi use” of ocean space within an offshore wind farm

The Multi-Use in **European Seas (MUSES) project** is a Horizon 2020 funded **project** that is exploring the opportunities for Multi-Use in **European Seas** across five **EU** sea basins (Baltic Sea, North Sea, Mediterranean Sea, Black Sea and Eastern Atlantic).

- EU funded MUSES project led by Marine Scotland
  - Action Plan outlined possible multi use concepts
  - Three related specifically to offshore wind; tourism, fisheries, aquaculture

## A Solution? Wind<sup>+</sup> Toolbox



*“The ambition for WIND<sup>+</sup> is that the concept becomes a **“multiuse toolbox”** whereby one solution does not apply to every windfarm within Equinor’s portfolio, but rather, **a selection of solutions could be developed and applied as and where needed.”***

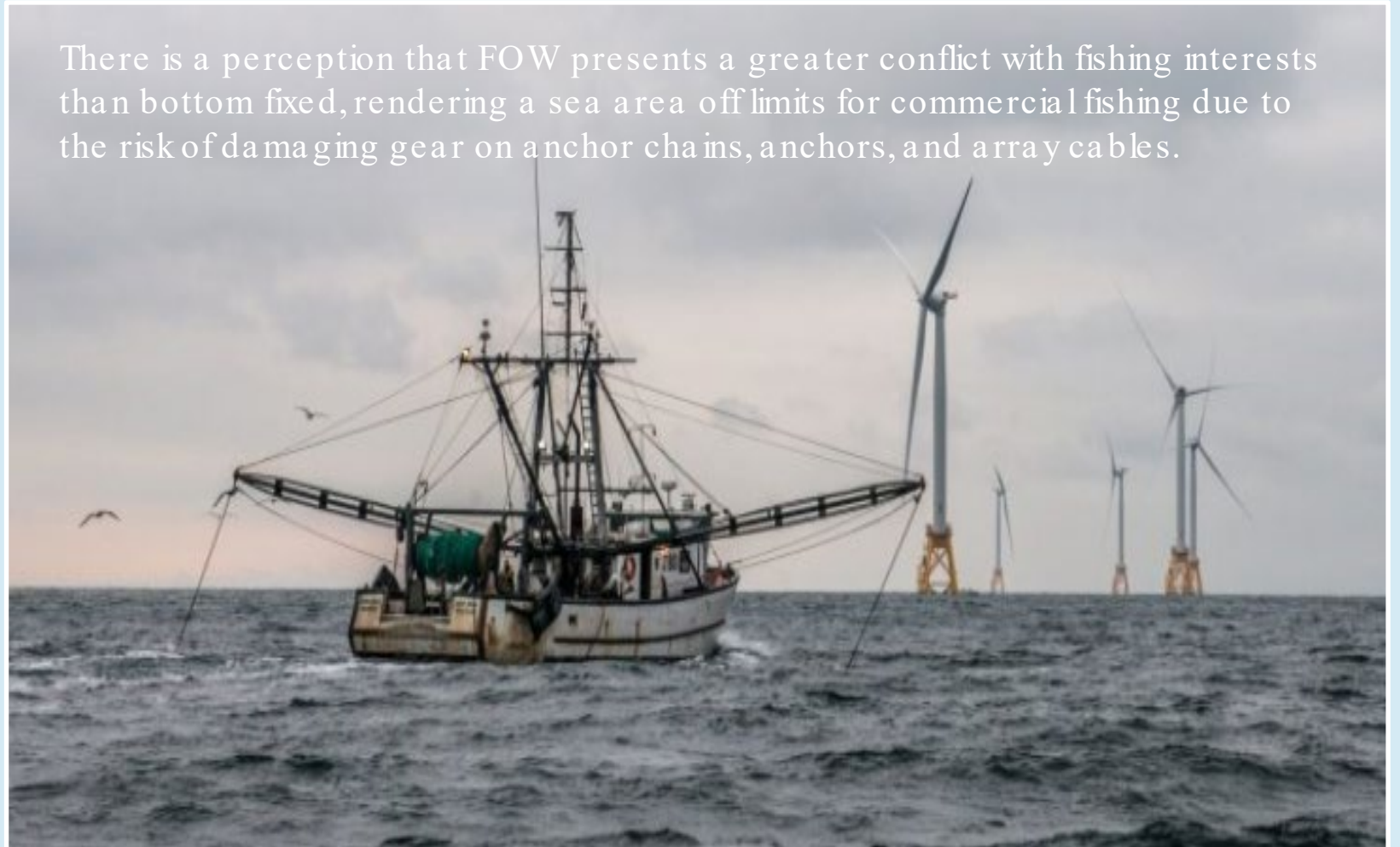


# Current challenges for floating offshore wind

FOW can potentially have less impact on a number of receptors



There is a perception that FOW presents a greater conflict with fishing interests than bottom fixed, rendering a sea area off limits for commercial fishing due to the risk of damaging gear on anchor chains, anchors, and array cables.



# Fisheries Co-Existence Pilot “Sea Share”



*Our ambition is to test whether some fishing gear can be used safely within a floating offshore wind farm*



# Partnerships and stakeholder engagement



# Current status

## Timing

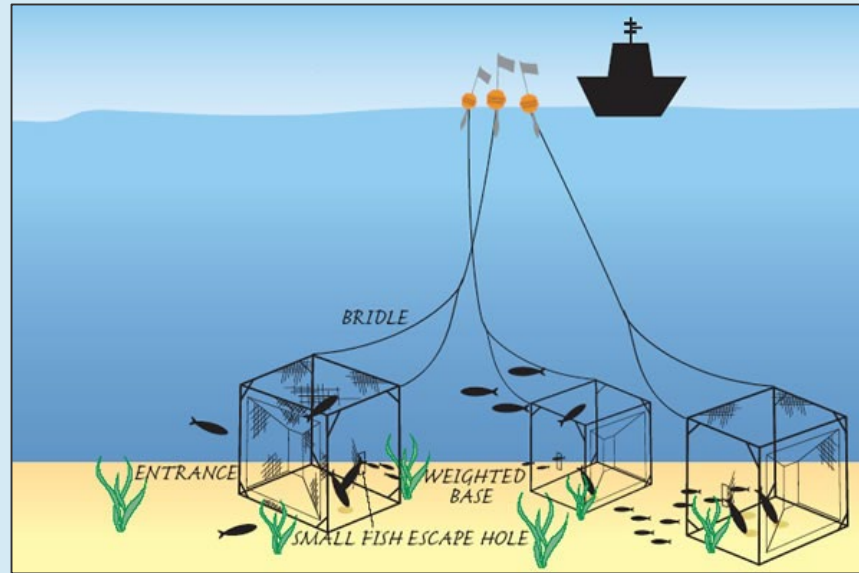
- *Summer 2020*

## Objectives

- *Safe use of gear*
- *(& artificial reef effect?)*

## Gear

- *Fish traps*
- *Mackerel (/squid?) jigs*
- *Creels/pots*





# Way forward

There is a need for dialogue on how the fishing industry and the offshore wind industry in Scotland can start to find meaningful ways to work together, and to explore what co-existence could mean for both our industries.

We hope this pilot will feed into that conversation.

A large offshore wind turbine is the central focus, with its three white blades extending outwards. The turbine is mounted on a yellow support structure. In the background, several other wind turbines are visible, along with a service vessel or platform in the ocean. The sky is a clear, light blue with some wispy clouds.

Shaping the future of energy

Thank you for your attention