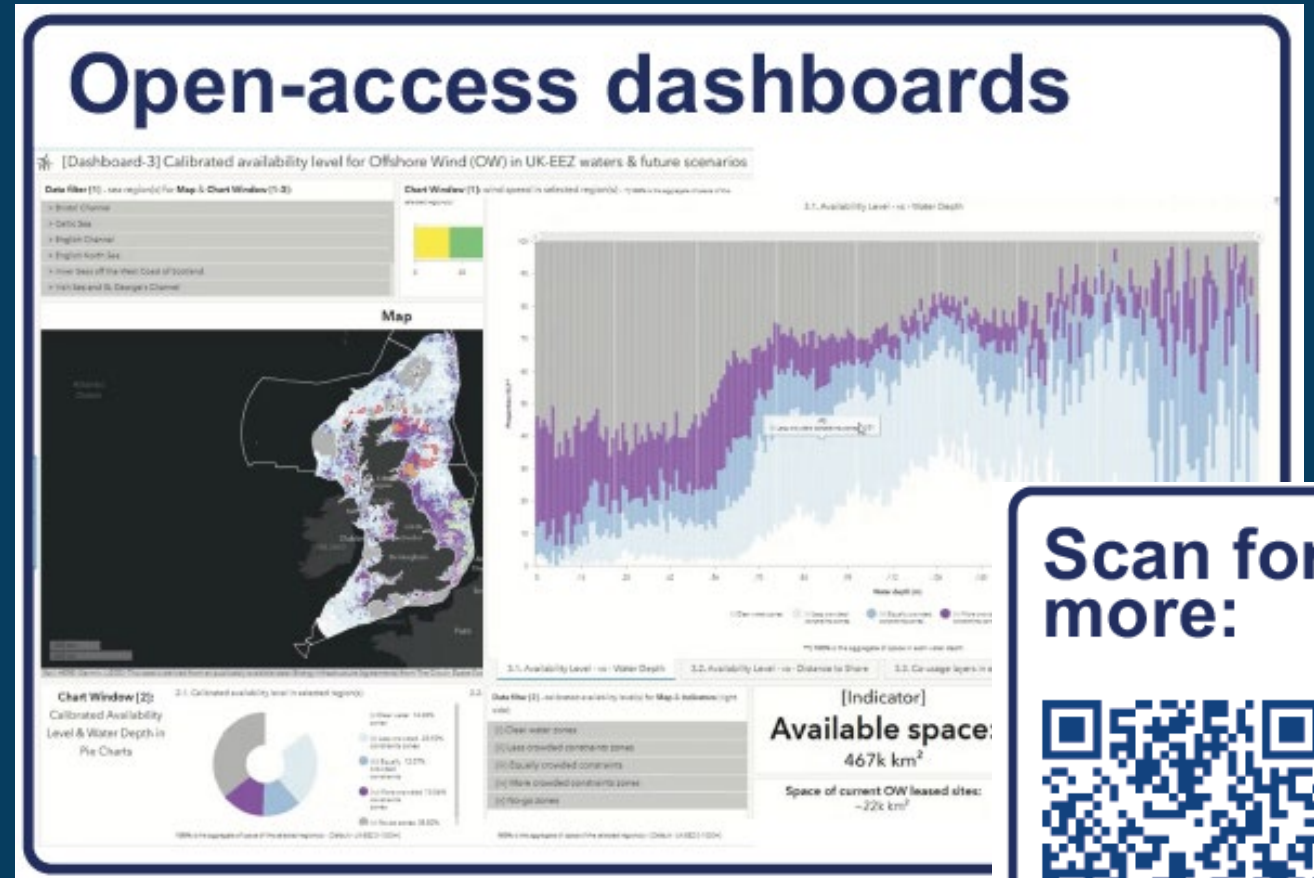


Finding space for offshore wind to support net zero



Scan for more:

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Finding space for offshore wind to support net zero

Net zero targets

- Current leased sites [■] for offshore wind have used ~3% of space in the UK-EEZ waters
- To meet the net zero targets, the space for offshore wind needs to be increased by 2-5x

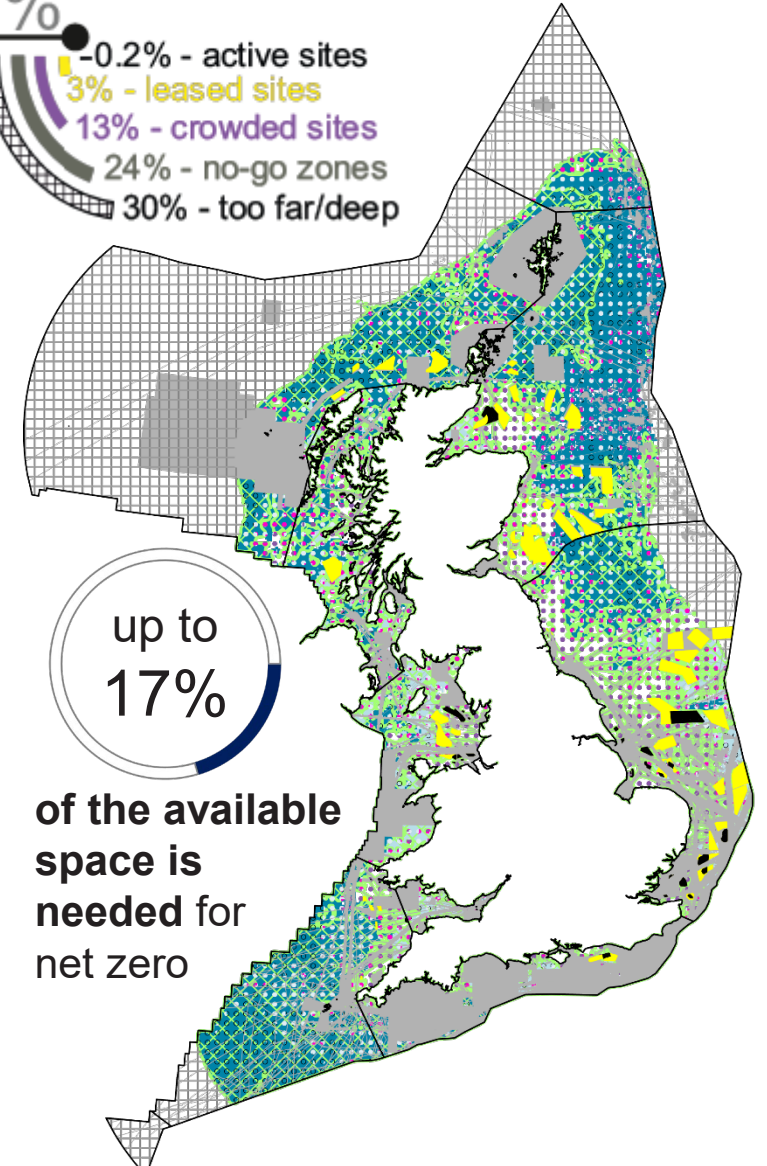
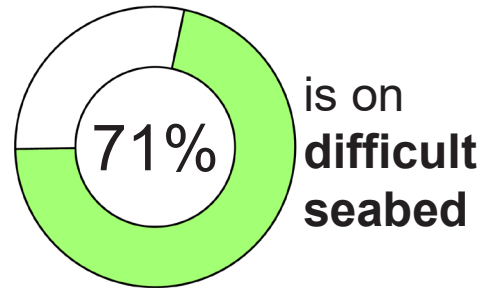
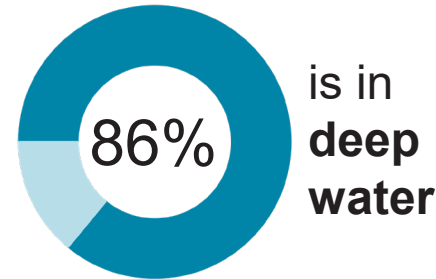
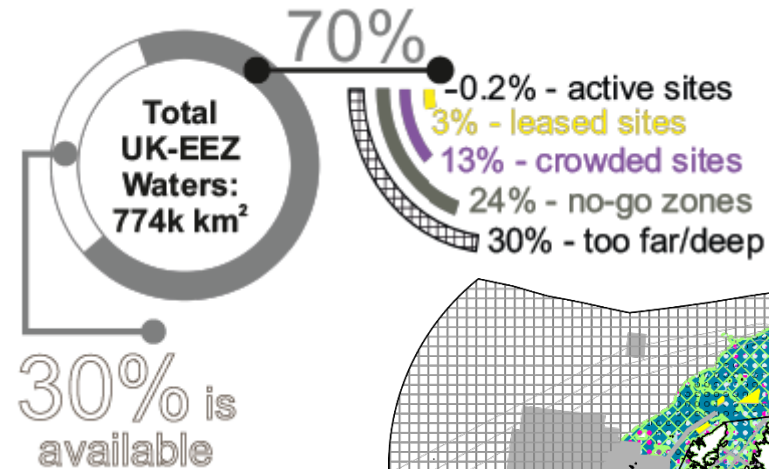
UK waters are a busy space

- 70% is not available: leased sites [■], area w/ more crowded constraints [●], no-go zones [■], or too deep or too far [■]
- 34 spatial constraints have been identified



Available space in UK waters

- 17% of available space will be needed: either in clear water [○], area w/less [○] or equal [●] crowded constraints
- Most of available UK waters 'deep' (60-227m) [■] - needing floating offshore wind
 - Some spaces are located in difficult seabed [■]



Finding space for offshore wind to support net zero

Future challenges

[1]

Cumulative effects on marine ecosystems

[2]

Deeper water

[3]

Demands on

BOWIE **ECOWind**

Benthic-Offshore Wind Interactions

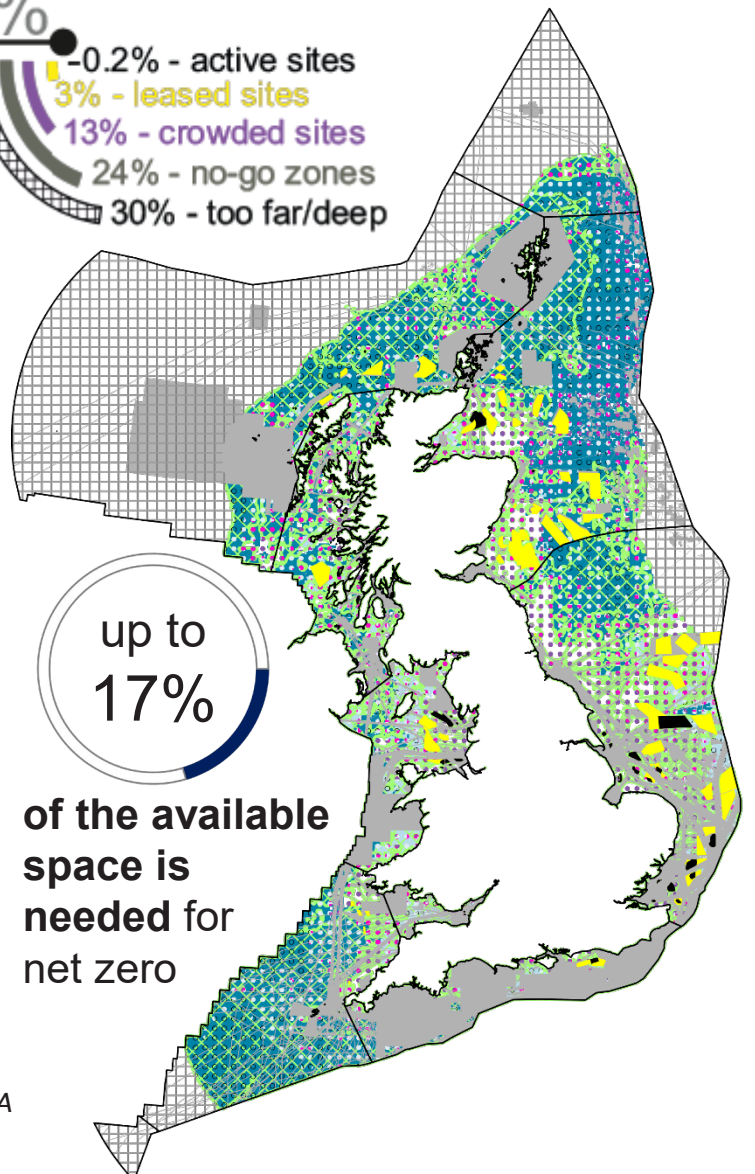
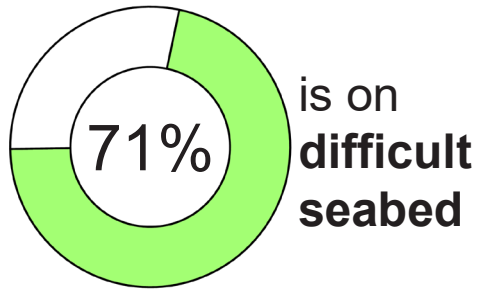
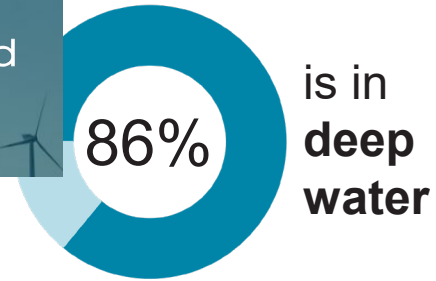
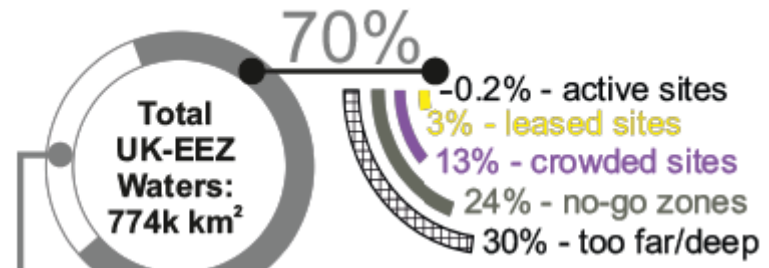
Lead Principal Investigator: Professor Martin Solan, University of Southampton

Addressing challenges

R&D + collaboration

more:

Open-access dashboards



Putuhena H., White D.J., Gourvenec, S.M. & Sturt F. (2023) *Finding space for offshore wind to support net zero: A methodology to assess spatial constraints and future scenarios, illustrated by a UK case study*. Renewable and Sustainable Energy Reviews 182

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