

# EPSRC Supergen Wind Hub – Projects and Linkages

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## Grand Challenges

- MAXFARM (MAXimizing wind Farm Aerodynamic Resource via advanced Modelling):
- Maximising the Carbon Impact of Wind Power:
- Screw piles for wind energy foundation systems:
- Servo-aeroelastic tailoring of wind turbines using new active-to-passive control systems:



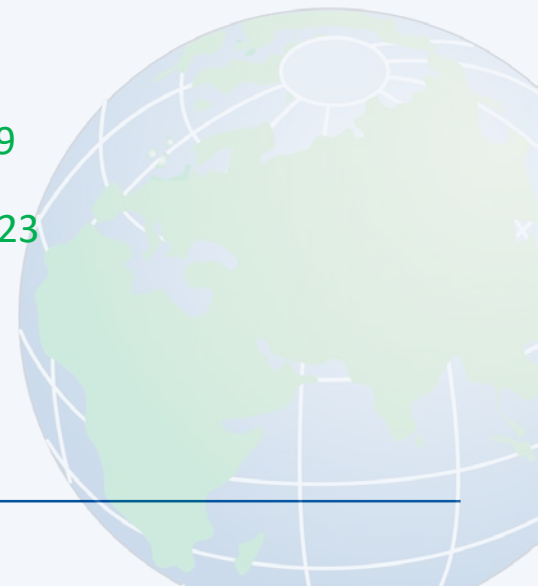
## UK/China Offshore Renewable Energy

- Improved prediction of offshore wind power generation through flow model scale integration
- Building resilience against typhoon/hurricane and extreme storms into offshore wind turbines
- SUSLAND: Sustainable islands integrated with offshore aquaculture farm and renewable energy generation system
- Investigation of the novel challenges of an integrated offshore multi-purpose platform (INNO-MPP)



## Centres for Doctoral Training

- CDT in Wind Energy Systems, 2009-2013
- CDT in Wind and Marine Energy Systems, 2014-2019
- CDT in Wind and Renewable Energy Marine Structures, 2014-2019
- CDT in Wind and Marine Energy Systems and Structures, 2019-2023



## OREC Hubs

- Electrical Infrastructure Research Hub
- Wind Blades

## ▪ FP7 and HORIZON 2020

- AWESOME
- IRPWIND

## ▪ Prosperity Partnerships

- AURA

## ▪ Other

- EPSRC
- ETP
- Offshore Wind Innovation Hub



# Networks

