

R&D UK Centre

# EDF Projects Overview

## UniTTe Workshop - November 2016

Hugo Herrmann

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# Nacelle LiDARs : Previous onshore projects

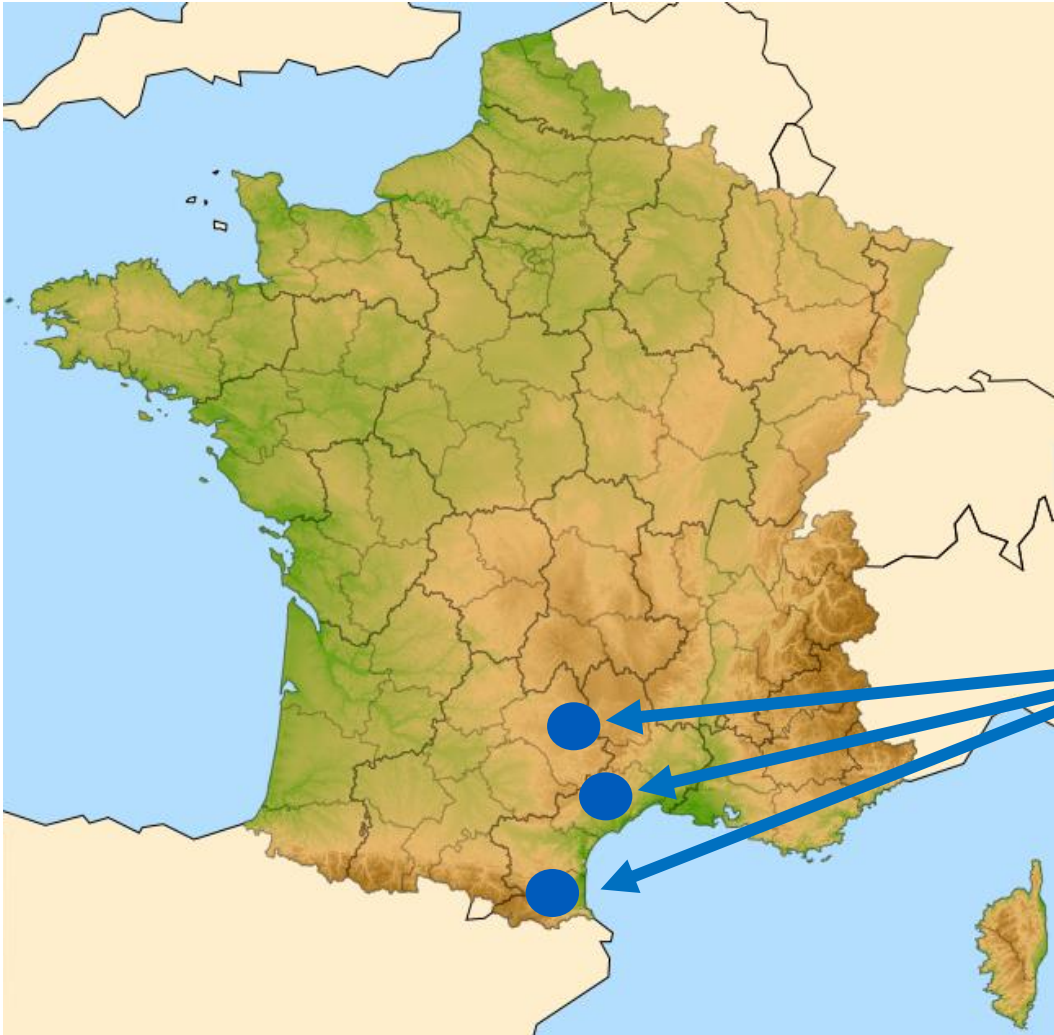
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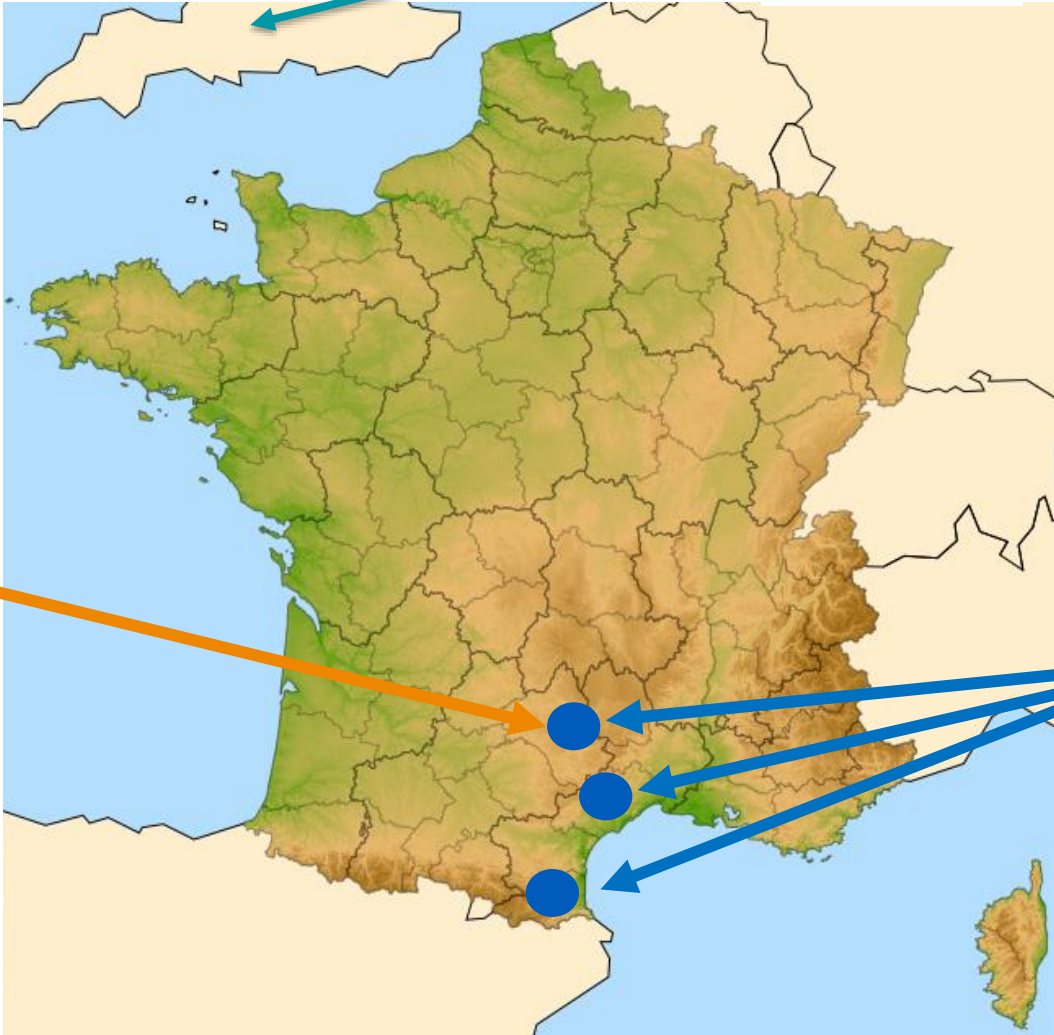
# Nacelle LiDARs : Previous onshore projects



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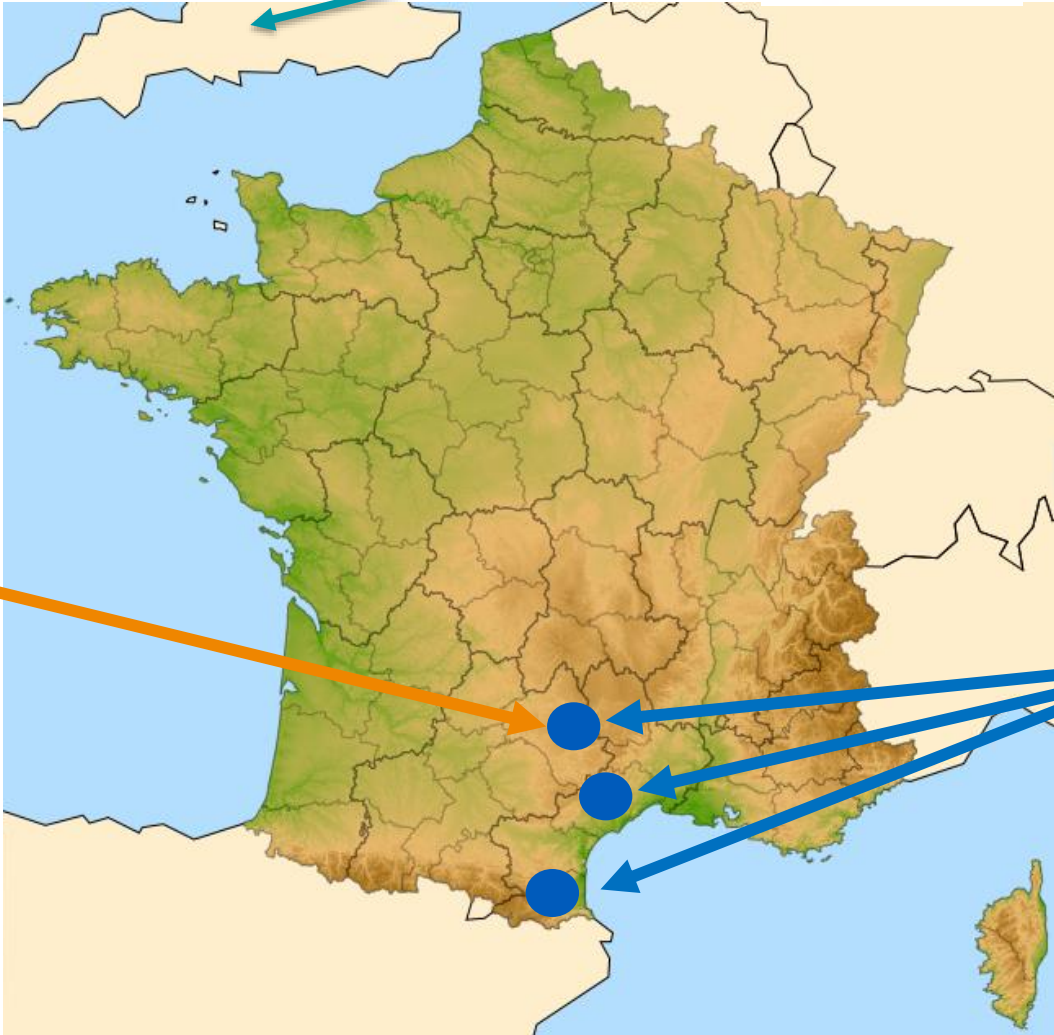


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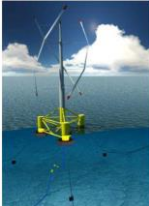
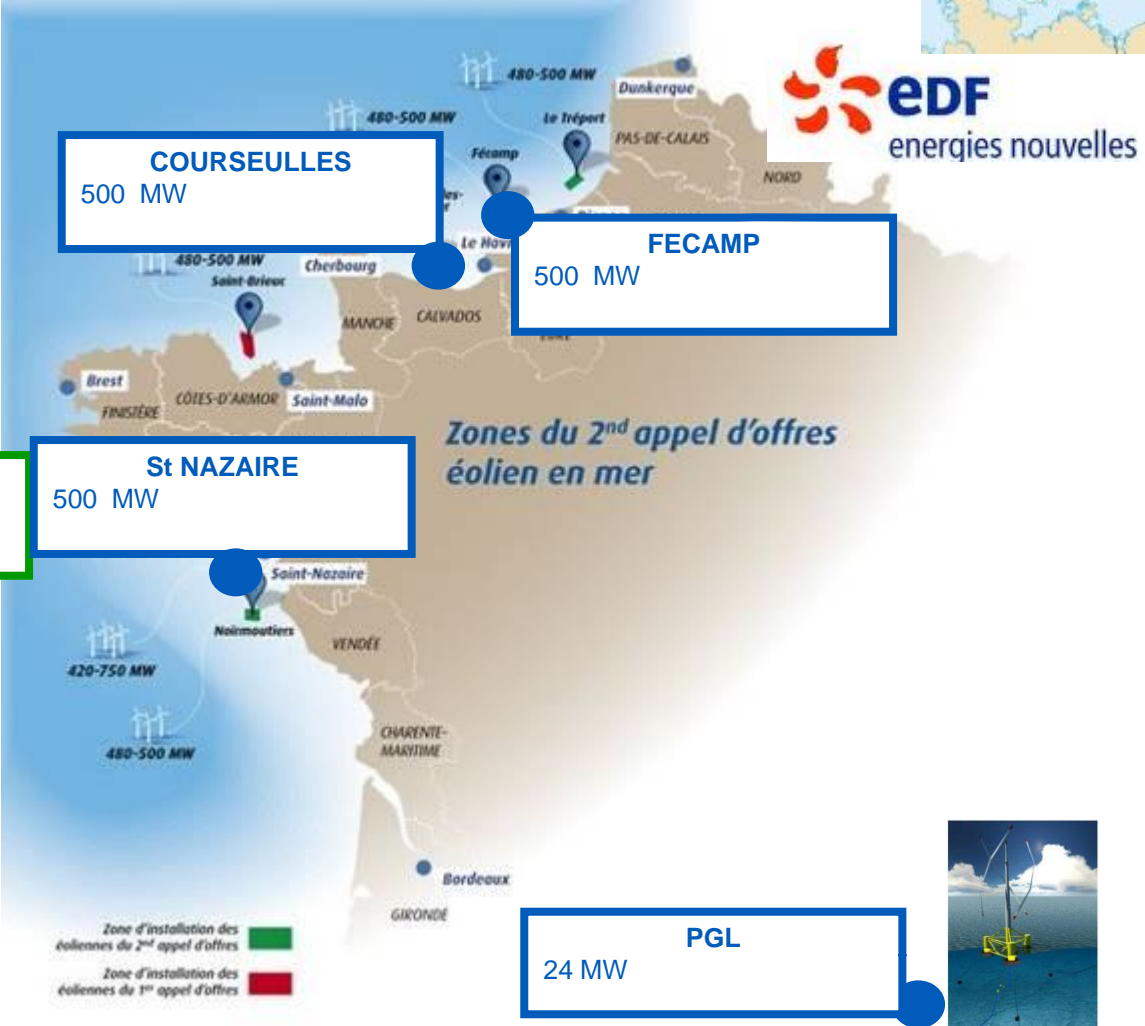
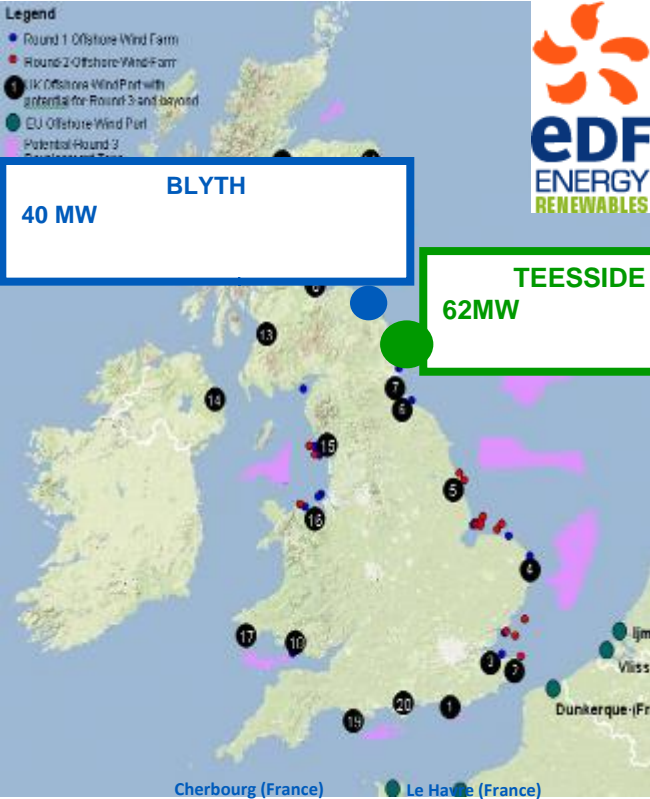
**Aim:** Use nacelle mounted LiDAR for “informative” Power Curve Verification without calibration of the systems



# Nacelle LiDARs : Future offshore projects

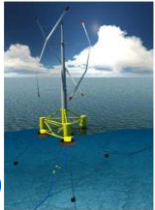
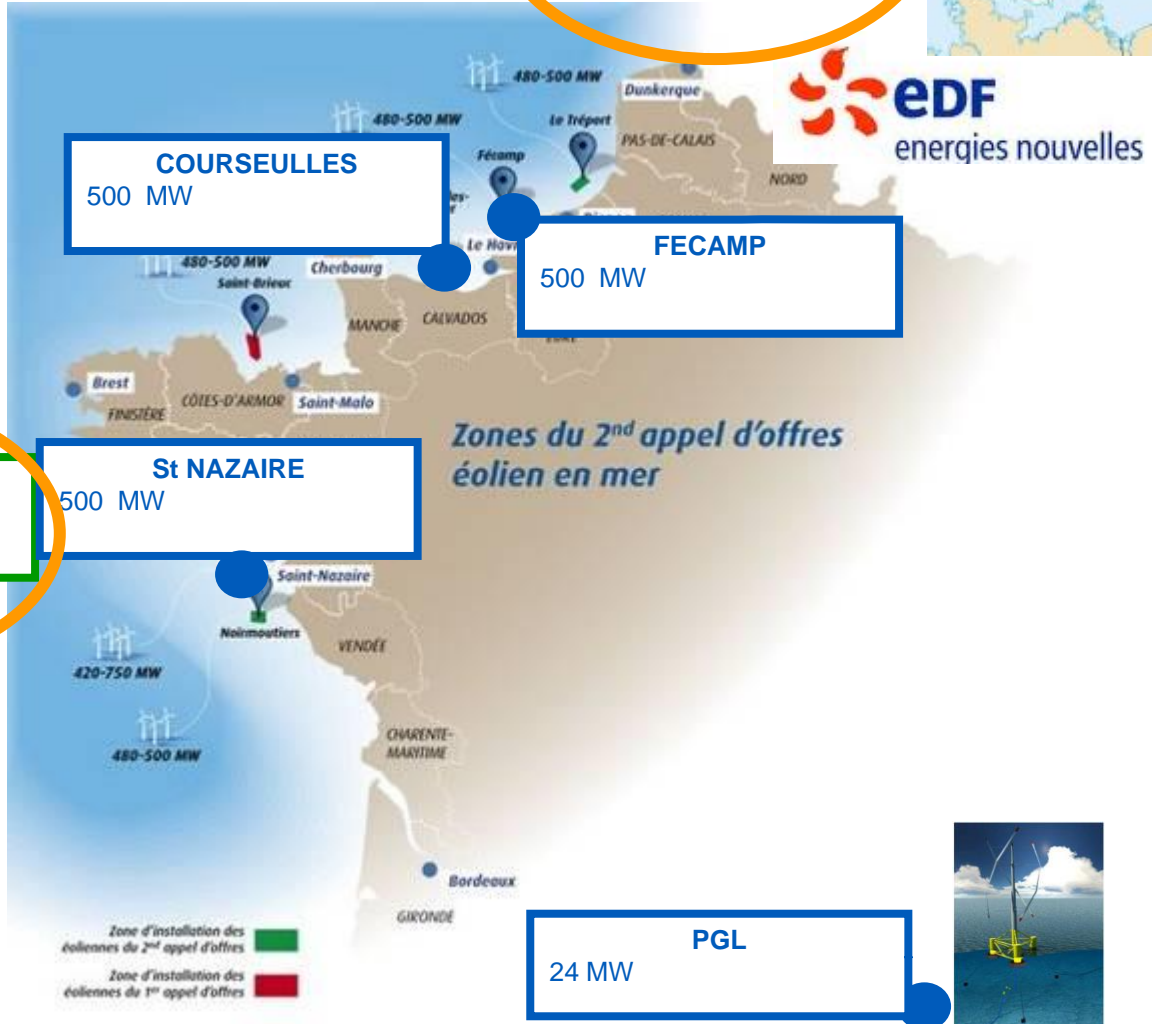
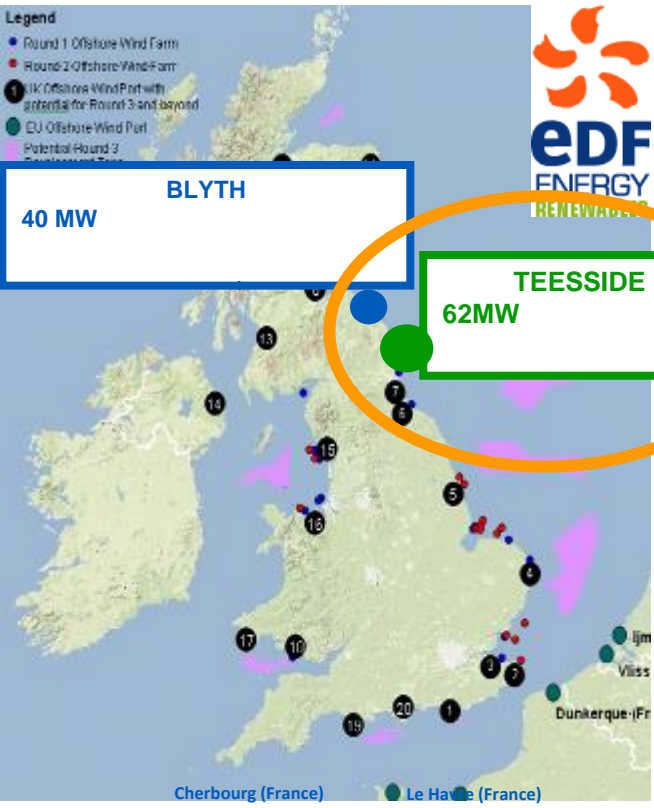
- OPERATION 
- DEVELOPMENT 

**OSTERILD (onshore pre-serie)**  
6 MW



# Nacelle LiDARs : Future offshore projects

- OPERATION ●
- DEVELOPMENT ●



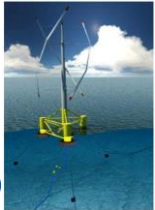
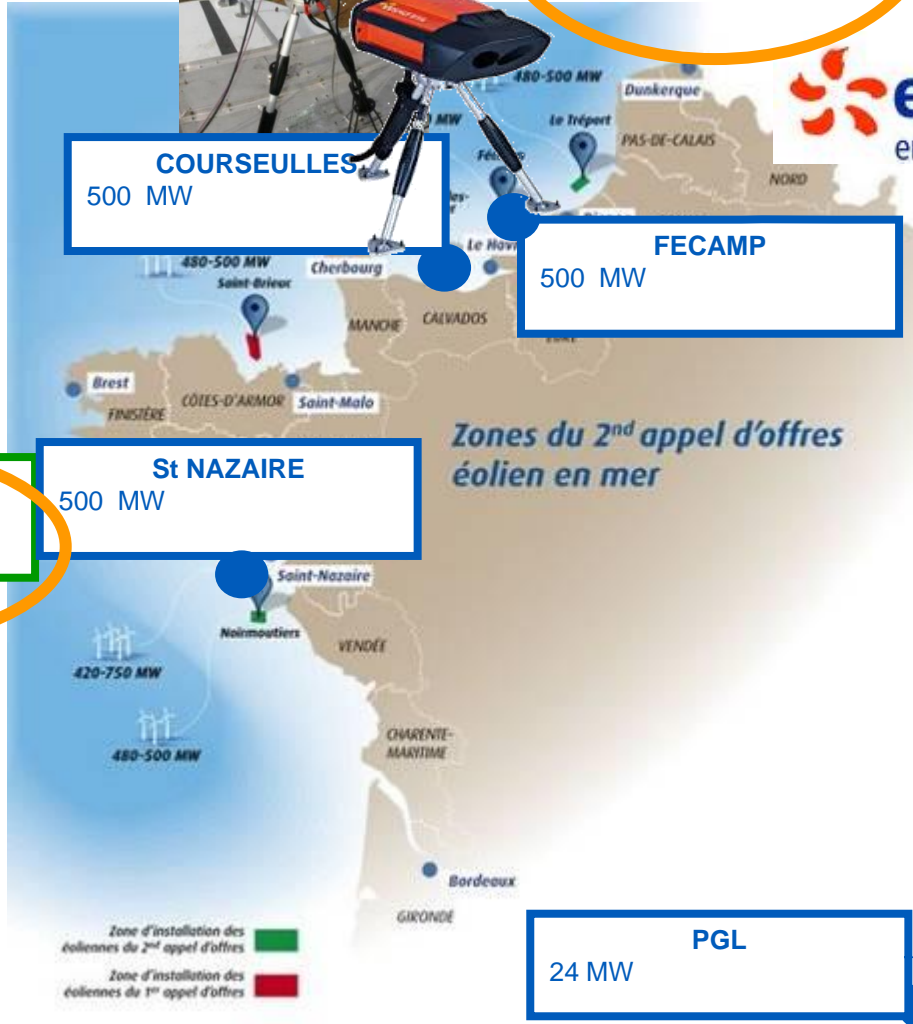
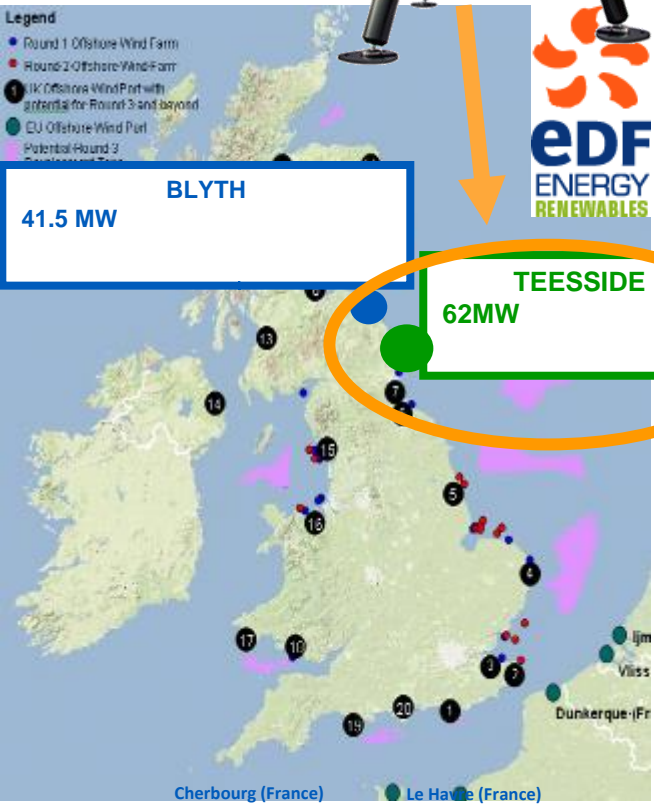
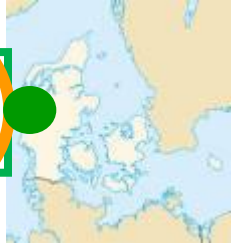


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- OPERATION ●
- DEVELOPMENT ●



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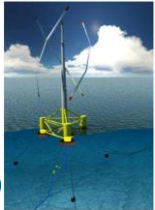
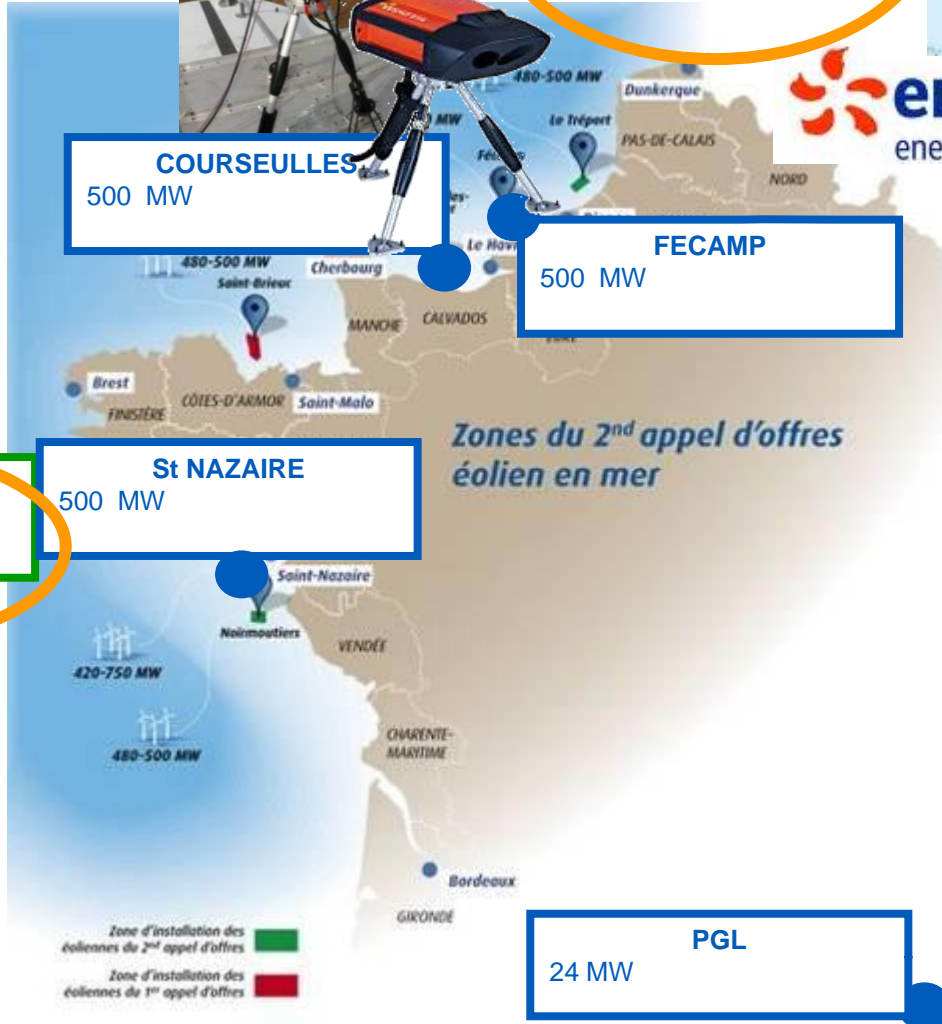
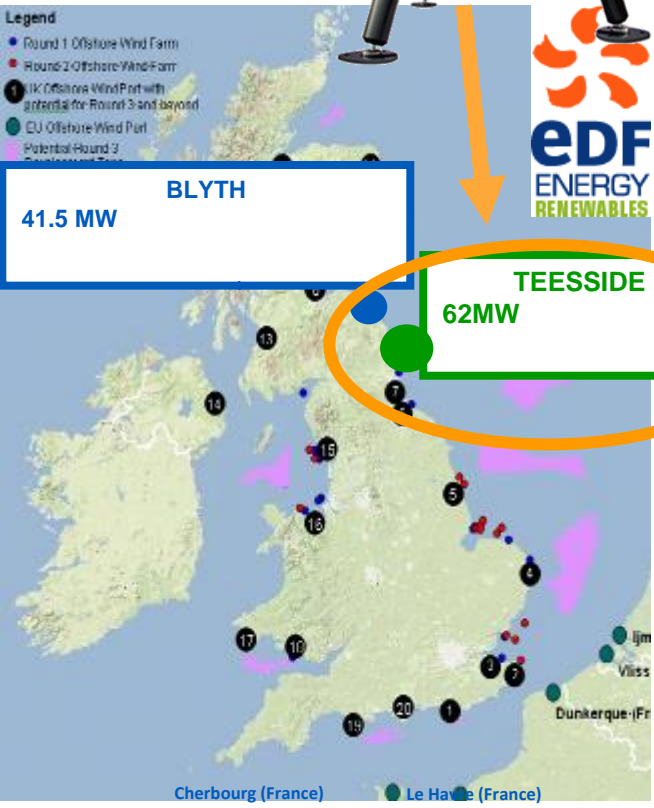
# Nacelle LiDARs : Future offshore projects

**Aim:** Develop calibration and power curve measurement procedures that can contractually be used offshore

- OPERATION ●
- DEVELOPMENT ●



**OSTERILD (onshore pre-serie)**  
6 MW



# Nacelle LiDARs : Future offshore projects

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## R&D studies:

- Rotor Equivalent Wind Speed
- Nacelle Transfer Function and its portability
- Uncertainty management
- Turbulence Intensity and wake
- ...

