Wind Resource Assessment Service

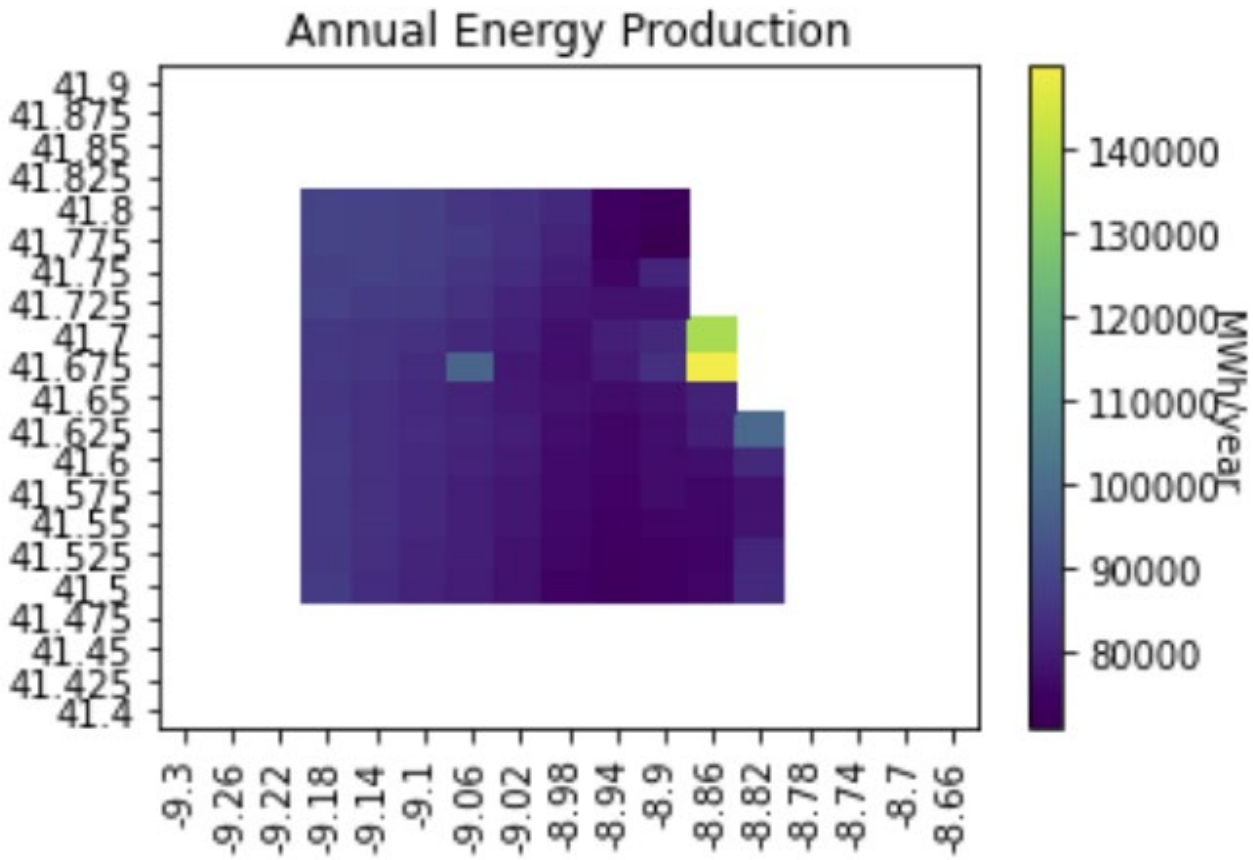
Pilots with EDP in WindFloat and Moray East projects

Accurate and reliable wind resource assessment before the deployment of offshore wind farms, with the estimation of industry standard energy production indicators (AEP & LCOE)

Example: Combination of wind speed and direction from satellite data with turbine specifications from internal catalogue to generate Annual Energy Production estimates

Turbine model:

- Vestas V164-8.0, 8MW (WFA)
- Power curve, dimensions, thrust



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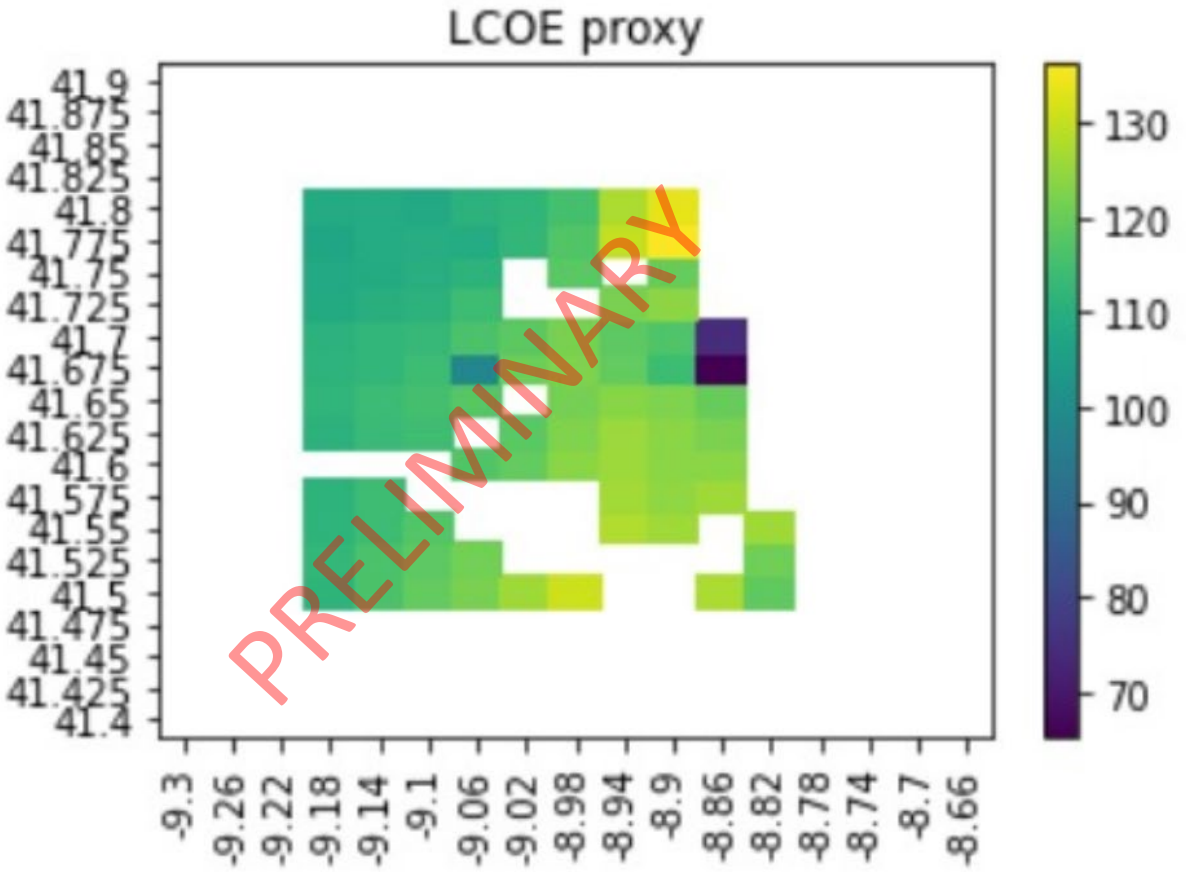
Example: Combination of wind data from satellite with turbine specifications to generate Levelized Cost of Energy estimates

- LCOE proxy estimates total lifetime project costs for different spatial coordinates
- LCOE proxy is a non-dimensional suitability index that takes into consideration:
  - CAPEX: Component material costs, installation
  - OPEX: Component material costs, installation
  - Expected Annual Energy Production