

University of Strathclyde

Jethro Browell

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University Partner:

University of Strathclyde

Academic Supervisor - Name and Email Address:

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Suggested Project Title:

Energy Forecasting and Applications

Suggested Project Summary:

Core themes: Probabilistic forecasting methodology and use in decision-making. Innovation in: post-processing numerical weather forecasts using contemporary statistical methods, decision-making under uncertainty, modelling the interaction between weather and energy systems. Scotland has an enormous wind and marine energy resource which must be forecast on an operational scale. To maximise the utilisation of this resource operational forecasts must be accurate and provide relevant information to decision-makers, who in turn must be equipped with the tools required to make optimal decisions in the presence of multiple uncertainties. Forecasts and decision-aids will increase the economic value of Scotland's renewable energy resource and such innovative products would have a global export market.

Collaboration Sought for the Project:

Wind/marine energy operators/developers, energy trading houses, weather forecast providers. Strathclyde brings expertise in probabilistic forecasting and decision-science, we are looking for existing forecast producers/users with an ambition to produce the next generation of energy forecasting tools.

Benefit to the Industry Sponsor:

Become an internationally leading forecast producer/user with the aid of state-of-the-art data science and one fully trained forecasting expert in 4 years.

Published or Private?:

Yes