

Case Study

Name	Offshore wind site search and assessment
Client	Vattenfall Wind Power Limited
Project Type	Marine environmental analyses for offshore wind

Overview

Atmos Consulting was commissioned to collate and review development constraints for offshore wind and carry out sensitivity analysis. The client was provided with a report including project GIS and risk profile to inform site selection.

A detailed data collation process to build an understanding of the site selection options and their relative risks and opportunities. Data encompassed ecological, metocean, geophysical and socio-economic factors and included geo-referenced, white and grey literature and application of industry trends, knowledge of stakeholder opinion and general project experience.

A systematic sensitivity analysis of UK (territorial and Renewable Energy Zone) waters using 6 km² cells allowed for the analysis of overall degrees of sensitivity of individual and accumulated factors thus informing the site identification and selection process and advising on development risk and strategies. In addition, this approach allowed for detailed assessment within Round 3 zones. Ability to interrogate the data and to have a live product was a key requirement of the client.

