

Case Study 1 – Offshore Windfarm

Problem Statement:

One of the worlds UK’s largest producer of low-carbon electricity and supplier of electricity in the UK wanted to invest in wind farms. They wanted to know what site they should invest in, the cost of building and operating the Wind farm and optimal layout of turbines.



Solution:

An 8 objective optimisation algorithm taking into consideration many operational constraints, at 17 sites, optimal layouts and a economic sensitivity analysis.

Output:

A detailed report comprising of a breakdown of all the given sites and the associated costs of developing an optimally laid WF. The Costs of the deployments ranged from £1.6 BN to £1.8 BN across the 17 sites analysed.

