

London Array Offshore Wind Farm

Project Title: Electrical Consultant

Energy Type: Offshore Wind

Client: Shell Wind Energy Ltd

Location: Thames Estuary, England, UK

Project Size: 93 turbines (330MW)

Project Scope: Commissioned to carry out a detailed grid integration study, considering connection configurations including their technical feasibility and budget costs for alternative grid integration solutions in relation to the SWEL's development objectives.

The scope of this project included an electrical study in sufficient detail to define:

- ☉ Optimum electrical distribution system layout
- ☉ Array cable size
- ☉ Array cable configuration options
- ☉ Offshore substation electrical equipment layouts
- ☉ Total and make up of electrical losses through the system
- ☉ Optimum transmission voltage and cable data

Key Achievements: None stated

Completion Date: 2005