

# Operations & Maintenance (O&M) Philosophy for an Offshore HV Substation (OHVS)

SRJ CONSULTING CASE STUDY



## PROBLEM

Successfully integrating operations and maintenance (O&M) requirements into the design and development of an Offshore HV Substation (OHVS) to ensure that the integrity of its structures and equipment can be preserved, and desired asset availability achieved, throughout its intended service life, safely and at a reasonable cost.

## SRJ SOLUTION

Preparation of an O&M Philosophy at an early stage in the development process defining the main operations and maintenance objectives, key operational and maintenance requirements to be applied in design, and detailing the philosophy for operating the facility.

The O&M Philosophy described all envisaged operational modes of the OHVS and also the operations and maintenance approach proposed for the Offshore Wind Farm (OWF) in general. Since the OHVS would normally be unmanned, considerable emphasis was placed upon considerations such as:

- Condition monitoring and remote surveillance
- Access and egress provisions for visiting operations staff and maintenance teams
- Laydown areas, transport routes and material handling needs
- Workshop facilities and storage space for spare parts and tools

To accompany the O&M Philosophy, a list of the key activities to be undertaken (and related deliverables to be produced) during each development phase was drawn up, with corresponding cost estimates.

## DELIVERED VALUE



### CONSISTENT APPROACH

- A means for communicating the O&M philosophy for the OHVS and wind farm overall asset to partners, regulatory agencies and other stakeholders.



### COST EFFECTIVE

- A basis for preparing tender package documentation for EPC contracting.



### LONGEVITY FOCUS

- A foundation for Operations Readiness planning.

*SRJ provides specialised consultancy services.  
Contact us for more information.*

david.capeling@srj-technologies.com  
bill.skales@srj-technologies.com

**SRJ Technologies Group plc**  
**www.srj-technologies.com**

All Rights Reserved  
Company Number 115590  
© 2022 SRJ Technologies Group plc

