

Consulting

Customer Services for Offshore Grid Access & Balance of Plant

Introduction

Offshore wind farms and their operation can be of complex character. Time-consuming and costly tasks as well as confusing regulations are part of daily business regarding offshore operations. The Offshore Service from Siemens offers several support and consulting services.

Features

The Siemens experts have a vast experience and global expertise, so the technical consultancy is characterized by optimal ease of maintenance to achieve the long-term reduction of your operating costs. Siemens experts use their experience to ensure the best possible operation of your plants.

Benefits

- Reduction of your operational costs on a long-term basis
- Continuous optimization of your asset availability
- Expert knowledge from Siemens to operate your offshore wind farm

Offshore consulting

As a full scope operator we have a wide range of experience. Therefore we can offer the following consulting products:

Fit for service – Make your platform serviceable

- Inspection tour by Siemens experts to ensure optimized serviceability of your offshore assets
- Check of all components for accessibility and serviceability
- Detailed findings report, including recommendations for improvement

Health check – Condition assessment of your assets

- Expert tour by Siemens specialists to improve the availability of your offshore platform
- Condition assessment of critical systems, including high voltage equipment

Statutory inspections

Besides the requirements of OEMs regarding maintenance, the international legislators (e.g. for Germany: BSH) and other regulatory authorities (e.g. for Germany: BetrSichV, DGUV) oblige offshore wind farm operators to perform specific inspection tasks with experts.



Get recommendations on availability improvements for your offshore platform – with a condition assessment tour by our experts

Creation of statutory inspection Authorities-concept:

- Offshore and Onshore Substation
- WTG
- Cable
- Foundation

Compiled Concept and detailed plan for regulatory inspections on substation components according to DGUV, BetrSichV, TrinkwV, etc. (incl. inspection intervals, qualification and needed tools)

FMECA & reliability centered maintenance

Siemens can offer FMECA (Failure Mode, Effect, Criticality and Analysis) Experts, who will identify potential failures according to the potential causes of failures, in order to ultimately evaluate the resulting risk. This generates the following benefits:

- Preventive Maintenance including a combination of condition monitoring and/or inspection and/or testing, analysis and the ensuing maintenance actions

- Proactive evaluation of necessary maintenance actions by involving state-of-the-art techniques

Organizational consultancy

Increase of productivity and decrease of operational costs through consulting in organizational processes for:

- Asset management
- Spare parts & warehousing
- Logistics and customs
- Permit-to-work processes
- Offshore organization

Quality management process optimization

In order to optimize the productivity of your offshore wind farm, it is possible to check the quality management processes. After the review, our experts help to implement optimization proposals. You will receive all suggestions as a report.

- Technical processes
- Operation concepts
- Switching processes
- Regulations compatibility

Long term unmanned

Identification of adequate measures such as modifications, automation or organizational optimizations with the objective to:

- Operate the asset unmanned
- Limitation of the presence offshore personnel

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The information in this document contains general descriptions of the technical options available, which may not apply in all cases.



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