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Engineering and Project Management Consultants

Project Overview

Milford on Sea 33/11kV Substation

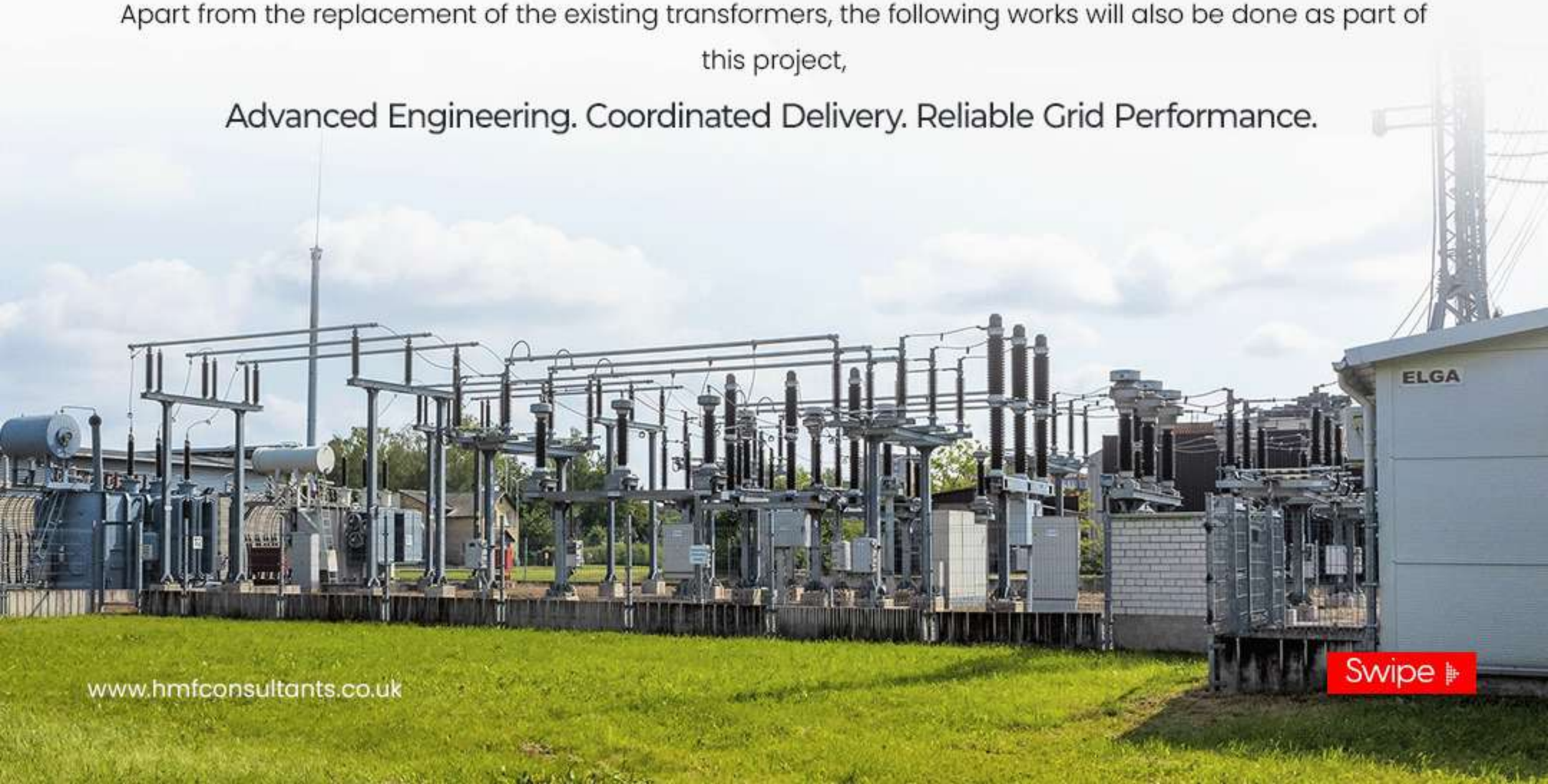
Engineering Design Project

13MVA, 33/11 kV transformers at Milford on Sea have been assessed as being in poor condition with existing transformers leaking oil into the soil directly due to the absence of a suitable bund and are prioritized for intervention. This work will be carried out as part of asset replacement program for RIIO-ED2 and are targeted for completion during 2024/25.

This scheme will improve Health Index of 33/11kV Transformers – from HI5 to HI1. Furthermore, This increased transformer rating will lift the Milford on Sea declared firm capacity from13.0MVA to 23.8MVA.

Apart from the replacement of the existing transformers, the following works will also be done as part of this project,

Advanced Engineering. Coordinated Delivery. Reliable Grid Performance.



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Project Location

Milford On Sea, Lymington, Hampshire, SO41 0AP

The Milford On Sea is located in Lymington and has historically been an important power generation facility within the UK energy network.

Following the decommissioning of the coal-fired power station, the site is now being redeveloped to support modern energy infrastructure, including grid-connected battery storage and supporting transmission assets.

The project aims to strengthen grid stability while enabling future renewable generation and storage integration within the regional transmission network.



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Project Background

- HMF is currently involved in carrying out the complete detailed design for this project which involves Civil, Electrical as well System Studies.

- Liaising with Keltbray fully throughout the project life time and carrying out the role of Principal Designer for the project.



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Key Engineering Deliverables

HMF Consultants developed detailed technical documentation and engineering design deliverables including:

- Civil Foundation Design for the new Equipment.
- Primary and Secondary Design including production of SLD' s, Stage by Stage SLD' s, MCP and Protection Schematics. System Studies including Earthing, Cable design and Protection Coordination.



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Why HMF Consultants?

Trusted

A proven engineering partner supporting complex grid infrastructure and substation development projects.

Proven

Extensive experience in high-voltage transmission and distribution network design, including grid integration for renewable and energy storage projects.

Power-Focused

Dedicated expertise in electrical engineering, power system studies, and substation design delivery.

Multi-Disciplinary Capability

HMF provides coordinated engineering services across:

* Primary electrical design
* Secondary and protection systems
* Civil and structural integration
* Cable routing and infrastructure design

Our approach ensures safe, compliant, and future-ready grid infrastructure solutions.

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