

HIGH-PERFORMANCE BY DESIGN

132/33kV transformer substation scheme



Overview

With the primary objective of significantly improving the facility's overall functionality, this substation upgrade project included the replacement of ageing grid transformers (A1MT/A2MT) and the installation of new protection and control equipment.

These upgrades were crucial in modernising the substation's infrastructure and ensuring its reliability and efficiency for the future.

Also required within the project scope was meeting an eight-hour Emergency Return to Service (ERTS) requirement, as well as ensuring efficient and environmentally responsible practices were adhered to.

Project profile

Location:
Southampton

Solution:
132/33kV transformer substation

Delivered by:

KUS
POWER
ENGINEERING

Solution

Focusing on safety, civil and electrical design, the installation of equipment, as well as addressing any environmental challenges, the KUS team took a comprehensive approach to ensuring successful delivery of this substation upgrade project.

Utilising in-house expertise, they designed elements for civil assets and electrical equipment, ensuring seamless integration within the project framework. The installation of new transformers (A1MT/A2MT) and protection & control equipment was undertaken in line with sustainability principles, ensuring thorough dismantlement and scrapping of the redundant kit. Furthermore, strict compliance to environmental regulations were developed to mitigate any adverse ecological impacts and to ensure the efficient removal, and subsequent reinstatement of cables, minimising disruption to existing infrastructure while ensuring the integrity of the overall system.

Result

The substation was successfully upgraded, ensuring enhanced safety, regulatory compliance and improved operational efficiency. The installation of new transformers and protection & control equipment, along with environmental modifications, has worked to both modernise the facility and increase its reliability.

Working to safety protocols embedded within the project's design, the upgrade was completed in a safe manner, with zero injuries or harm.

Activities that were essential to meeting the requirements of the Early Restoration Time Service (ERTS), were effectively managed with stakeholder co-ordination and synchronisation embedded.

More information

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 INFORMATION
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From concept, through to design, build, connection and everything in between, our end-to-end engineering solutions offering provides network solutions across the energy management landscape.

