HMF
Engineering & Project Management

Project Dashboard

Project Title: Chickerell 132kV/33kV

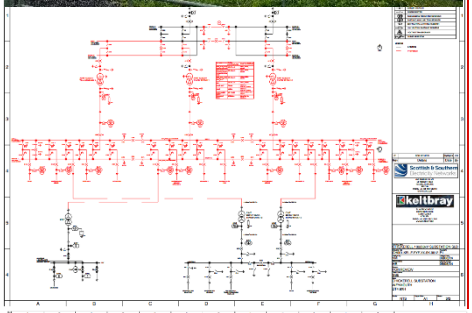
Collaboration and delivery Partner with:

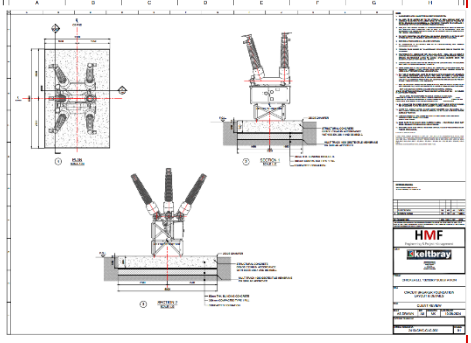
keltbray

End Client:

Scottish & Southern Electricity Networks

OEMs used and collaborated with. **Siemens, GE, Tironi, Getra Transformers**





Project Location: Off Wessex Roundabout, Weymouth, Dorset , DT4 9XH England, United Kingdom

Project Phase: Engineering Design

Project Description: SSEN had identified the poor condition of all the following Plant & Equipment at Chickerell 132/33/11kV substation

- Optioneering recommends replacement of the entire outdoor 33kV AIS Switchgear
- Replace 2 x 45/90MVA 132/33 kV Grid A1MT & A2MT Transformers
- 2 x 33/0.415kV 1250kVA Aux Earthing Transformers
- 2 x33kV Neutral Earthing Resistors
- Installation of 1 of 90MVA 132/33kV A3MT Transformer along with a new third bay.
- Replace 4 of 132kV Outdoor Dead Tank Circuit breakers including associated Civils
- Replace 4 of 132kV 2000A/40kA Double Break Disconnector/Earthing Switches including associated Civils
- Replace the existing LVAC

All the above Capital schemes would improve Health Index of Assets, future proof the site, and reduce the risk of advanced ageing of plant due to the substation's coastal location.

Project Highlights:

- HMF has completed the feasibility design and detailed design.
- Conduct Regular design review meetings with SSE/Keltbray.
- Conduct full end to design for Keltbray as well as Leading project coordination as Principle Designer Role.
- Coordinate all design related to Civil feasibility submission and Cable Design.

Key Deliverables:.

- Designing of elevated 33kV Switchroom
- Designing of transformer bunds of 3x 132/33kV transformers and their Auxiliary equipment
- MCP of 132kV and 33kV
- Feasibility design of 33kV cables

Key Milestones:

- Feasibility submission 14.08.2024
- Expected detailed design submission 06.11.2024