



case study

Cleve Hill Solar Farm: Strategic 400 kV HV Commissioning and Grid Connection

End-to-end high-voltage (HV) commissioning, 400 kV grid connection and long-term operations and maintenance (O&M) services for the UK's largest operational solar farm.

H&MV Engineering Ltd

Kent, United Kingdom

Nov 2024 - Ongoing

373 MW

solar generation capacity

400 kV

grid connection completed

Customer challenge

Cleve Hill Solar Farm required support for the final commissioning and energisation of the site in line with HV safety rules to provide safety from the system. With a solar array installed and ready to export, specialist HV support was required to safely connect and deliver power to the UK's National Grid.

Solution for our customer

Our HV specialists supported final commissioning for the 400 kV connection, managing SAP-led switching, governance, and stakeholder communication. Supported by extensive HV expertise and 24/7 control room insight, the team resolved issues, ensured compliance, and enabled the safe activation of this nationally-significant infrastructure asset.

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This project reflects our role as a trusted HV services partner, supporting a safe 400 kV connection, resolving commissioning challenges, and coordinating stakeholders to help bring this vital renewable energy asset online.

*Rolande Ryder, Operations Manager
James Fisher Energy*

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Customer impact

- Delivered a safe, compliant 400 kV grid connection for initial solar capacity, bringing clean energy online.
- Resolved commissioning challenges through expert HV oversight, protecting timelines and performance.
- Enabled timely activation of a nationally significant infrastructure project, supporting decarbonisation and energy security.
- Strengthened investor and stakeholder confidence through trusted delivery at a complex HV connection.
- Established a multi-year HV O&M and control room services partnership, ensuring ongoing operational assurance.