AURORA ENERGY SERVICES

Electrical Services

Radiator Weld-Leak Repair on a Utility-Scale Solar Site Transformer

To diagnose the condition of critical transformer assets and safely repair a radiator weld leak using an efficient outage strategy that minimised downtime, protected equipment integrity, and reduced operational disruption.

Our Solution

Aurora installed and retrofitted Grace Technologies Permanent Electrical Safety Devices (PESDs) across inverter and battery enclosures, enabling voltage presence and absence testing without exposure to live equipment.

Our compliance-driven approach aligns with NFPA 70E standards and reduces the need for high-level PPE during routine maintenance.

The result is a compact, reliable, and cost-effective safety solution suited to both new-build and existing renewable energy assets.







At a Glance

Challenges

- The transformer remained in service when the weld leak was first identified, requiring careful planning before isolation.
- The repair required precise coordination between electrical, mechanical, and specialist welding teams.
- Outage duration had to be minimised to reduce production losses for the renewable energy facility.
- Overnight working was scheduled to align repairs with the site's lowest generation period.

Value to client

Aurora's early fault detection and rapid radiator swap during a planned outage prevented catastrophic failure and minimised downtime and production losses. Following successful pressure testing, the transformer was safely returned to service with no disruption to critical operations.

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