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CASE STUDY: Power & Automation

Electrical Engineering Works for Saltburn Cliff Tramway Post-2024 Fire



The Saltburn Cliff Tramway is a water-balanced funicular railway, which connects Saltburn's pier to its old town, allowing users to avoid climbing 173 steps. When at capacity operations, it can transport more than 100,000 passengers every year.

Following a significant fire at Saltburn Cliff Tramway in January 2024, MJR Power & Automation was engaged by Rapid Consulting to undertake critical electrical and control systems works as part of the site's restoration.

Although this isn't the typical electrical engineering work MJR Power & Automation delivers, the significance of the Cliff Tramway to the local community and local economy meant that MJR Power & Automation needed to help in any way they could.

MJR Power & Automation

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The upgraded system replaced the existing control system with additional safety and emergency functionality in order to ensure compliance with the latest functional safety standards.

Scope of Work

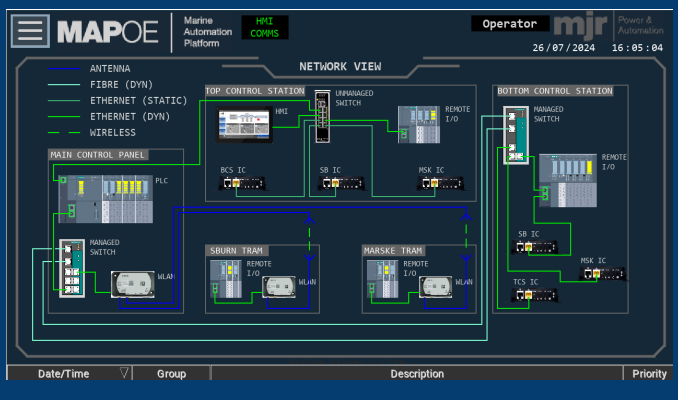
The design engineering and construction for the replacement of the five main stations:

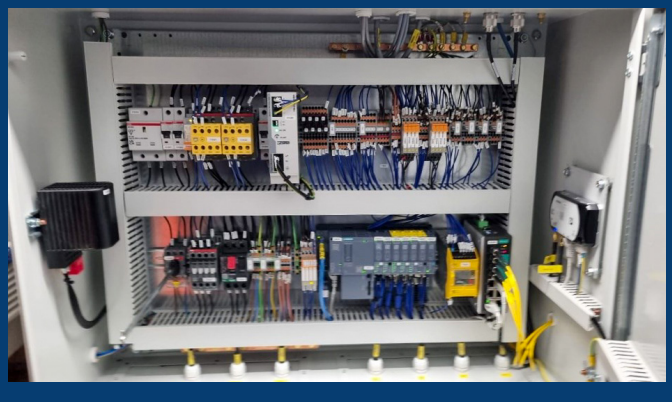
- **Top Control Station**
- **Main Panel**
- **Bottom Station Panel**
- **Saltburn Tram Control Panel**
- **Marske Tram Control Panel**

Control & Automation

- **PLC-based operation**
- **Graphical console for visual feedback of the system**
- **Industrial WIFI communication to each tram**

The new implemented system has made significant improvement when compared with the existing system with robust industrial WIFI communication replacing the RF communication which historically caused intermittent comms faults, stopping operations.





MJR Power & Automation played a pivotal role in the electrical recommissioning of Saltburn Cliff Tramway. Our experience and track record in designing and implementing functional safety system laid the groundwork for safe and reliable tram operations.

This helped safeguard what is one of the only two water balanced lifts in existence and ensuring enjoyment for both the local community and visitors for many years to come.

Following this work by MJR Power & Automation, Saltburn's Cliff Tramway was able to reopen in September 2024.

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