

## Project Information

### Project: Clergue T.S. - 115kV Protection Relay Upgrade



**Owner:**

**Brookfield Power**

**Contractor & Construction:**

**EPTCON Ltd.**

**Design/Build & Engineering:**

**EPTCON Ltd.**

**EPTCON Ltd.** provided the detailed design/build and complete electrical engineering for two 115kV-12kV Transformers, two 115kV Transmission Lines, a 12kV bus, and a new breaker fail protection for the associated breakers. The scope of work included:

- Development of the single line diagrams, AC schematics, DC schematics, and trip logic diagrams.
- Protection relay settings.
- Connection wiring diagrams and electrical equipment layouts.
- Detailed design of four new protection relay panels, including preparing the bill of materials, panel layout drawings, and panel wiring diagrams.
- Field modifications to existing relay panels and associated wiring.
- Design and installation of a new field cabling interface rack.
- Complete testing and commissioning of the upgraded protection relay systems.

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