

HIGH-VOLTAGE ELECTRICAL WORK

Recent projects include:

- High- and medium-voltage installations
- Transformer replacement
- Switchgear upgrades
- System one-lines



Confidential Client, Oregon Transformer Replacement Upgrade

- Existing transformer was showing end-of-life deterioration. Evergreen's scope of work included:
 - Sizing replacement transformer
 - Specifying oil, tap changers, and associated components
 - Assisting with vendor selection
 - Preliminary engineering
 - Installation drawings

Confidential Client, Arizona 24 MW Sludge- and Wood Waste-fired Power Plant

- The scope of this project was as follows:
 - Addition and modification to protect scheme for 13.8kV substation
 - Power system analysis
 - Specification and integration of turbine generator controls including governor, static exciter, protection relay, hydrogen cooling system and vibration system
 - Operator interface, CCTV monitoring and communication network design
 - Utility control compliance interface
 - Installation and maintenance documentation



Thompson River Co-Gen, LLC, Montana 115V Substation and Distribution Design

- The scope of this project was as follows:
 - 13.8kV distribution for station, boiler, and sawmill 480V distribution
 - EDSA power system analysis
 - 13.8-115kV step-up substation & tie-in to utility
 - Coordination of power system protection relays
 - 115kV line-to-utility, including right-of-way acquisition



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