



Utilities

Kupper Engineering provides electrical engineering design involving power systems, emergency power, and electrical distribution. KEI's experience includes medium and high voltage switchgear systems, power factor correction, medium voltage overhead line design, radio transfer trip systems, and grounding systems.

Interconnection

Kupper Engineering conducts on-site surveys, preparing single and three line diagrams for submission to permitting agencies, which is a crucial element in attaining utility approvals. KEI collaboratively works with utilities and Independent System Operators (ISOs), assisting with the preparation and submission of interconnection applications/documents, relay protection schemes, and pole line design.

Protective Relay Panels

Relay panels improve reliability and provide communication and control from control centers to the operational site. Kupper Engineering designs and builds protective relay panels for the protection of generators, transformers, utility interconnection, and direct transfer trips. KEI works with manufacturers such as Schweitzer, Basler, GE, and Beckwith. Additionally, KEI has direct transfer trip experience with RFL over fiber or telephone; free-wave and Schweitzer over 900MHz radios.

Substation

Kupper Engineering has designed substations - both as upgrades to existing or completely new substations. KEI has completed projects from design through startup of substations ranging in size up to 150MVA at 15kV, 35kV, 69kV, 115kV and 138kV. KEI's services include all grounding, structural, equipment, specifications, and rigid bus related efforts.

RTU's (Remote Terminal Units)

Kupper Engineering's RTU's are designed to transmit real-time and accumulated energy data, status points, and curtailment values to utility energy management systems. These RTUs can be standard or custom designs. Regardless of how data is transmitted or type of protocol, KEI has the experience necessary to integrate these systems into your infrastructure. RTUs can transmit the data over fiber, telephone, or internet in a variety of protocols. RTU's have the versatility to be configured to accept many variations of points lists, protocols, and communications media to meet the project requirements.



Kupper Engineering is classified as a small business and is registered to do business with the federal government under NAICS/SIC 541330.