



SUBSTATION

Ulteig has engineered and designed more than 1,000 high-voltage substations, switch stations, and interconnect stations — from 34.5 kV to 500 kV — for public and private clients. We provide all detailed engineering and design within a substation, including protection and control, electrical, detailed structural steel, and civil grading plans.

Ulteig's substation team offers all the necessary capabilities to provide our clients with full services, from project conception through commissioning. We provide the expertise and experience our clients need to realize cost-effective designs that are on time and within budget.

Our staff consists of professionals who are registered throughout the United States and are ready to support our clients' needs by providing value-added solutions. Ulteig's professional staff meets our clients' project objectives while balancing environmental, code, and site performance standards. Our cross-functional teams leverage the latest technology to produce reliable and economical solutions.

SERVICES

- Project scoping
- Preliminary arrangement
- Site selection
- Siting and permitting support, including photo renderings
- Environmental analysis
- Facility studies
- Access road design
- Construction estimating and support
- Grading design
- Control equipment enclosure design and specification
- Auxillary power system design
- Station battery system sizing
- Fault coordination studies
- Electrical control
- Electrical design
- Physical design
- Structural steel design
- Material ordering, tracking, and expediting
- Equipment specifications
- PLC and HMI programming
- Protective relay settings developments
- SCADA and communication design
- Spill prevention, control, and countermeasure (SPCC) plan
- Stormwater pollution prevention plan (SWPPP)
- Event analysis and evaluation