



PLANNING & STUDIES

Ulteig has the expertise and capabilities to perform all types of transmission, distribution, generation interconnection, and economic studies. We help our utility clients weigh the myriad of alternatives in the current energy market climate to make informed decisions. Our experience working with public agencies and knowledge of local, state, and federal regulations allows us to carefully manage your project to balance the needs of all stakeholders while delivering efficient, cost-effective solutions.

We perform an assessment based on current and future requirements, taking into account the existing system, projected/expected growth in load demand and generation resources, and future uncertainties. We provide solutions to power system problems with our combination of experience, analytical techniques, software tools, regional regulations and NERC Reliability Criteria, and customer-focused services.

SERVICES

- Transmission expansion and distribution planning
- Transient and dynamic stability studies
- System impact studies
- Power flow and contingency analysis
- Transfer limits
- Generation interconnection feasibility or impact studies
- Transient studies using EMTP
- Harmonics studies
- Wind farm modeling
- Wind power collection systems studies
- PV and solar thermal systems studies
- Power factor studies
- Reactive power compensation
- Series and shunt compensation
- Loss evaluation
- Economic analysis
- Economical conductor studies
- Transmission tariffs studies
- Fault current studies
- Arc flash hazard studies
- Power quality studies
- EMF assessment
- AC and DC transmission
- Design studies that optimize
 - Electrical factors
 - Environmental and economic factors
 - Mechanical factors
- Development of operating procedures and guidelines
- Load management studies
- Open access and pricing
- Reliability evaluation
- Short circuit, including ANSI standard breaker duty analysis