ASSET MANAGEMENT, CONDITION ASSESSMENT AND LIFE EXTENSION

Solutions developed and applied by Kinectrics support cost-effective asset management practices for utilities and other power industry clients. The experience we bring will help directors, managers and engineers determine and justify the best options for successful management of transmission, distribution, and generation assets.

TRANSMISSION – MECHANICAL TESTING AND FIELD INSPECTION

Mechanical testing and field inspection services cover conductors, connectors, accessories and fibre optic cables. Kinectrics’ high temperature, qualification, performance testing capabilities, and specialized studies can help manufacturers and asset owners minimize loss and maximize component life.

- Conductors, connectors, components & accessories
- Fibre Optic Cables (OPGW)
- Failure analysis and diagnostics
- Kinectrics’ LineVue inspection tool for non-destructive evaluation of energized lines up to 500 kV

DISTRIBUTION SERVICES – ENGINEERING AND DIAGNOSTICS

Proven expertise and experience to optimize infrastructure utilization, maintain assets, and extend equipment life for utilities and other power industry clients.

- Testing, Failure Analysis and Forensic Studies
- Distribution Engineering Consulting
- Technical Auditing, Benchmarking and Expert Witness Services
- Reliability and Power Quality Services
- Distribution Monitoring, SCADA, and Automation Services
- Smart Grid and Metering Capabilities

Kinectrics has the knowledge and experience needed to help clients get DG projects on-line quickly and cost-effectively. Our specialists deliver practical technical support in the areas of:

- Assessment of DG impact on voltage regulating equipment
- Connection impact assessments

ARCPRO™ is the industry’s most widely-used application for computing medium and high voltage arc hazards and selecting protective clothing and is OHSA endorsed.
Kinectrics operates an IEC 61850 Interoperability Lab, which supports all major manufacturers of substation automation equipment. A Real Time Digital Simulator (RTDS) system is used to emulate the electric grid and allow for testing of multiple components as they would be configured in an actual substation.

- Complete Substation Automation testing and development
- IEC 61850 Interoperability Testing capability
- Protection and Control power system studies
- Real Time Digital Simulator (RTDS) power system modelling
- Grounding, bonding and Lightning Protection Services (LPS) assessments

Kinectrics has been testing cables in the 5 - 46 kV range using AC Hi-Pot and Partial Discharge methodologies for over 30 years. Our cable commissioning and maintenance testing services include mobile equipment with a full range of diagnostic capabilities, and forensics in our advanced lab facilities. For nuclear plant, Kinectrics can deploy low frequency dielectric spectroscopy on submerged cables.

Kinectrics offers a comprehensive range of specialized courses designed to help people from utilities, manufacturing, and related power industries, expand practical knowledge and gain professional experience. Kinectrics' courses, taught by leading industry experts, incorporate practical hands-on experience and case studies based on our long-term technical support of utilities and related companies.