Maximize trust, minimize risk in electrical distribution
Optimizing the supply chain – services for suppliers to electric utilities

The modernization of electricity grids is exposing grid operators, regulators, suppliers and consumers to new opportunities and challenges. Product suppliers now need to meet a new set of Industrial Internet of Things (IIoT) related requirements, such as cybersecurity and interoperability. The influx of distributed energy resources (DER) is increasing demand for proven technologies that can interconnect with the grid in a mutually beneficial way.

**Your challenges, our solutions**

UL offers a wide range of testing, inspection, certification, audit, validation and assessment services for product manufacturers and system developers of:

- Cables
- Electric vehicles
- Electrical distribution equipment (transformers, circuit breakers, switchgear, etc.)
- Energy storage devices and systems
- Inverters and distributed energy resources
- Meters
- Microgrids
- Smart grid intelligent electronic devices (IED)
- Solar PV systems, products and components
- Utility connectors
- Wind systems, products and components

Our solutions are designed to help you confirm and demonstrate that your products meet applicable electric utilities’ requirements. We evaluate a comprehensive range of product and system attributes, including:

- Safety
- Cybersecurity
- Quality
- Interoperability
- Reliability
- Performance
- Wireless connectivity
- Supply chain optimization
- Regulatory compliance
- Risk assurance
- Sustainability
- Accuracy
- Bankability

**UL provides access to a global network of technical experts who...**

understand local, regional and national utility requirements, and who serve as an independent third-party for testing, verification, certification and compliance. Whether you are a product manufacturer, power system developer, financier or you supply products and services to the electric utility ecosystem, UL helps you to achieve your safety and security needs.
Optimizing the grid – services for generation, transmission and distribution

As our electricity grids continue to evolve and innovate technically, the need for safety, security and reliability remain important. However, now understanding how new technologies and smart systems change the safety landscape is critical to meet customers’ needs.

**UL serves a variety of industry stakeholders, including:**
- Electric Utilities
- Independent Power Producers (IPP)
- Independent System Operators (ISO)
- Balancing Authorities

We offer comprehensive testing, certification, assessment and planning solutions for both the established and emerging electric utility markets. Our customized research, testing and verification programs are designed to assess the critical attributes of a product or system according to the stakeholders’ specifications. Programs are tailored to address each stakeholder’s unique installation and use environment and provide any needed operational flexibility.

Our worldwide expertise helps source conformant products and systems from around the globe that meet your unique specifications for safety, performance, interoperability and security.

**Why UL?**

UL drives global research and standards to continually advance and meet ever-evolving product safety, performance and interoperability needs. UL's global network of technical experts and state-of-the-art facilities, with our longstanding relationships with regulatory authorities, partner laboratories and industry technical leaders helps you gain the compliance credentials you need to compete in a more complex global supply chain.

**UL offers:**
- Rigorous evaluation processes that help you better understand risk
- Experience in energy yield assessments and projections for renewable energy products and systems
- State-of-the-art renewable energy forecasting for centralized and distributed solar generation and wind facilities
- Services to manage and mitigate the impact of variable generation on grid operations
- Ability to synthesize high-quality generation data that captures seasonal and diurnal generation patterns, power ramp behavior, and resource variability on time scales from seconds to years
- Due diligence and independent engineering for major banks, financial institutions and insurance companies
- Worldwide leadership in safety science, performance testing and certification of electrical products and components
- Technical expertise found around the globe, available when and where you need it most
- Broad knowledge of local and national standards and codes making us a valuable resource to regulators
- Globally accredited laboratories for component and system testing and certification
- Certification trusted by more consumers in North America than any other safety mark and empowers a commitment to safety for both manufacturers and regulators
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