

Better planning, improved performance

/ WEATHER SOLUTIONS FOR ELECTRIC UTILITIES



VAISALA



Electric utilities around the world use Vaisala's weather sensors, systems and solutions – when timing and measurement are critical.

Vaisala Solutions For Electric Utilities

INTEGRATED SOLUTIONS TAILORED TO YOUR NEEDS

Weather information – critical to success

Weather information is critical to maintaining the reliable supply of electricity and the integrity of the grid. It is more important given growing demand for energy, pressure on costs, and the strain of intermittent wind and solar generation on the grid.

The inherent problems associated with establishing new generation facilities and transmission lines, has utilities looking to maximize the capacity of existing assets.

Environmental sensitivity and dependency on fossil fuels have seen the industry employ initiatives to reduce carbon emissions and face the challenge of integrating weather dependant wind and solar generation. The traditional 10 and 30 year climate averages can no longer be relied upon and this uncertainty will impact energy demand, severe weather management and transmission design.

Weather impacts the energy industry everyday

Weather and environmental information influence many utility decisions and actions within the energy industry every day of the year such as:

- The response to severe weather events that disrupt electrical services, such as lightning, high winds, and icing.
- Load forecasting tied to long term seasonal weather patterns as well as short term predictions
- The decision to take wind and solar power into the generation mix, depending upon wind and cloud conditions
- The management of transmission lines and weather conditions that reduce their capacity
- The design, planning and fault analysis for transmission infrastructure, based on weather records

Solutions to improve your business

Vaisala has been helping utilities develop weather-related solutions for decades – combining an understanding of your business with our expertise in weather.

From sensors that monitor moisture in oil, to weather measurement equipment, to the development of sophisticated decision support systems that improve transmission, generation and commercial activities, Vaisala will work with you to implement turnkey solutions that increase reliability and efficiency.

Vaisala Services – a life cycle partner

Partnering with Vaisala and relying on its professional services enables our customers to increase efficiency of daily operations and allows them to concentrate on their core activities.

Maintenance, operation and support services include:

- Design, development & planning
- Project management, install and commissioning
- Operation and data management
- Preventive and corrective maintenance

More than 70 years of experience

Vaisala is a global leader in weather-related solutions. For more than 70 years we have been developing environmental measurement systems to improve the understanding of global weather phenomena. We believe in a world where environmental observations improve daily life. Better measurement, greater predictability, fewer unpleasant surprises. Vaisala continues to improve weather-critical operations in air and ground transportation, industrial processes and a wide range of industries worldwide.

Vaisala Experience

- Working together with electric utilities, national weather services, research institutions, defense forces, airport and road authorities across the world



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For more information, visit
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