

Ascend Weather Station for Energy Utilities



IDEAL FOR:

- Enabling rapid PSPS activation with trusted, site-specific station inputs
- Feeding utility wildfire and risk models with accurate, current weather data
- Maintaining compliance with wildfire mitigation and PSPS reporting requirements
- Owning and securely sharing your station data across utility and partner systems

Hyperlocal weather data to prevent ignitions and protect the grid

Energy utilities are under mounting pressure to prevent wildfires without compromising the reliability of service. When fire risk escalates, grid operators must make rapid, high-stakes decisions—whether to cut power, reroute load, or hold the line. Making those calls demands up to the minute weather data from substations, circuits, and infrastructure in high fire-threat zones.

The AEM Ascend Weather Station for Energy Utilities captures the environmental conditions that elevate wildfire risk, like sudden wind shifts, low humidity, and heat spikes. By delivering near real-time data from the grid, Ascend Weather Station helps utilities act quickly, defend their decisions, and reduce the risk of causing wildfires.

- 1-minute updates
- Ultrasonic accuracy
- Utility-ready design
- Multi-weather sensor



KEY FEATURES

- Reduce wildfire ignition risk with early warning of high-risk wind, humidity, and temperature—updated every minute
- Make faster PSPS decisions using site-specific weather intelligence from utility-pole stations in fire-threat zones
- Balance safety with reliability by avoiding unnecessary shutoffs when local data confirms safe conditions
- Ensure PSPS compliance with automated, high-quality weather records for reporting and audits

*Optional upgrade

Scale Your PSPS Coverage for Every Threat

Ascend gives you the core weather data for wildfire and PSPS decisions—plus the flexibility to add sensors to track other hazards, no network overhaul needed.

Customize and expand your station as risks evolve

<p>Start with fire weather, add what's next</p>  <p>Integrate rainfall, soil moisture, or fuel-related sensors to monitor flooding or vegetation.</p>	<p>Install quickly without complex wiring</p>  <p>Nodes are wireless and solar-powered—just mount, power, and connect.</p>
<p>Expand intelligently with wireless nodes</p>  <p>Each node supports up to 4 sensors; up to 32 nodes connect to one gateway.</p>	<p>Future-proof your investment</p>  <p>Adapt to new regulations, post-fire threats, and evolving grid conditions</p>



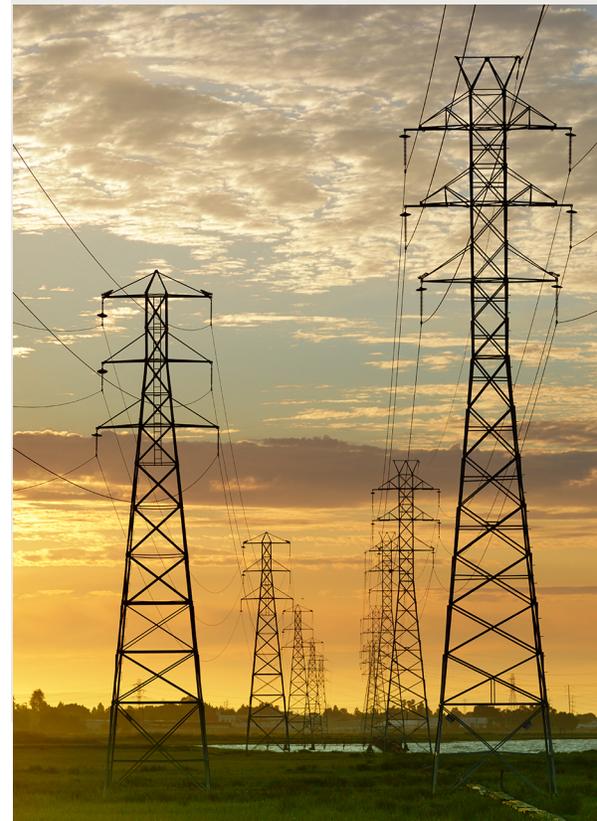
From Station to Decision—Real-Time Data, Your Way

Ascend delivers weather data as fast as every minute, streaming straight into AEM Elements® 360 so you can see conditions change, act fast, and document every decision. At the same time, that data can flow into your existing grid systems or risk models—working where you need it, when you need it.

- Get real-time alerts via SMS, email, or in app the moment conditions exceed your thresholds
- View live data and forecasts in customizable dashboards, maps, and charts in one application
- Push real-time data to your existing grid systems or risk models using API and SFTP
- Support PSPS documentation and regulatory reporting with historical weather records

Key Features

- Measure wind speed/direction, temperature, humidity, and barometric pressure in one compact station
- High-frequency data updates — marine-grade ultrasonic sensor with IP66 rating for precision in any conditions
- Accurate and reliable — marine-grade ultrasonic sensor with IP66 rating for precision in any conditions
- Utility pole-mounted, solar-powered design built to deploy anywhere along the grid



NEED FASTER, MORE RELIABLE WEATHER DATA FOR YOUR GRID?

Talk to our team to learn how Ascend Weather Station supports PSPS and other utility weather challenges.

