

Vaisala Lightning Exporter for Solar Energy

High-quality, accurate historical lightning data at your fingertips



Key benefits

Reduced operational downtime

Lightning Exporter lets you analyze detailed storm information in near real time, even when your asset may have just been compromised. You can make more-informed decisions to maximize productivity by dispatching people to the right asset at the right time.

Greater protection from liability

Dependable data about lightning type, location, and intensity can help determine the cause of a particular incident and help in designing a preventative plan of action.

Increased asset reliability

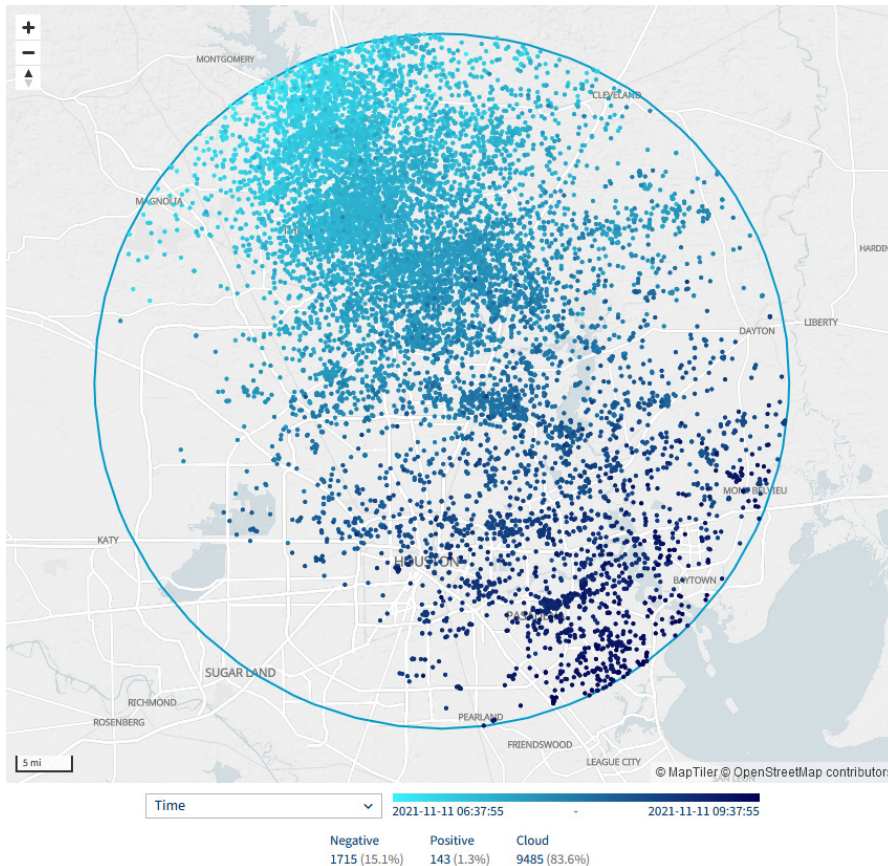
Lightning Exporter gives you access to extensive storm data near your solar assets — even those spread across multiple geographic regions — that can improve your emergency, maintenance, and operational asset management.

Modern data, modern operations

Lightning Exporter uses data from the Vaisala-managed Global Lightning Dataset (GLD360) and National Lightning Detection Network (NLDN). No other networks are as reliable or cover the globe with such resolution and accuracy. Wherever you are, this outstanding data is at your fingertips.

Enhanced reporting

The more accurate and comprehensive the lightning data you have to work with, the better evaluations your reports and presentations will deliver.



Lightning Exporter, part of our Xweather family of subscription based products, puts Vaisala’s world-class lightning data at your fingertips through a modern web interface. Without any capital equipment expense, it provides easy access to our ever-expanding data repository, improving investigations and report credibility for management, legal teams, and external audiences.

Lightning Exporter helps users conveniently preview and gather lightning data when, and how, you need it. This allows energy stakeholders to justify downtime, review procedures, identify potential asset damage, and guide investigation and repair projects.

Lightning Exporter at a glance

Applications

- Build robust incident reporting data through a simple, easy-to-use web interface that allows you to compile the highly accurate lightning information you need for incident assessment, reporting, or presentations.
- Incorporate comprehensive lightning information into your safety and asset planning reports to improve management of weather threats or incidents.
- Investigate the potential risks of lightning damage to power generation assets and more with accurate maintenance or protection GIS reports.
- Justify asset investigation with an accurate record of lightning events.
- Evaluate asset damage or failure with near real-time and historical hazardous strike information.

Key features

Dependable data with easy access to all the lightning events that occurred within your specified area and time period, with identified lightning characteristics that are accurate and reliable.

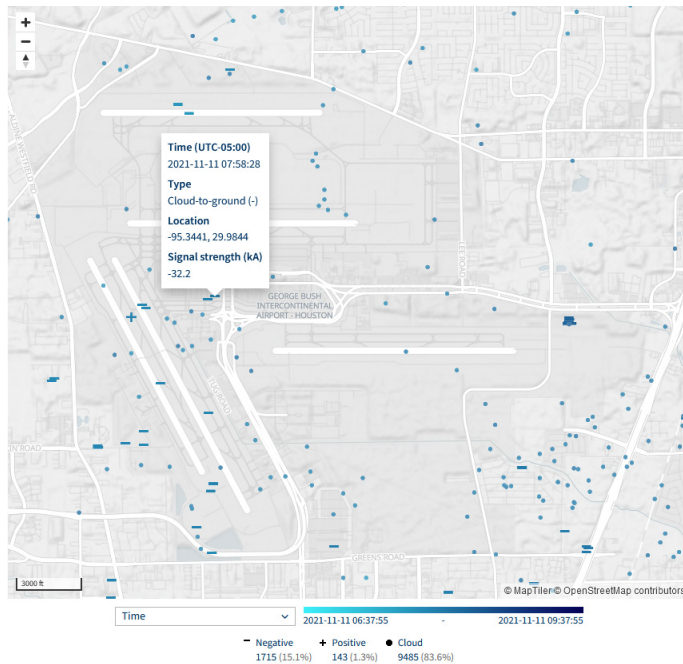
Simple web-based interface that lets you easily gather comprehensive real-time and historical lightning data and export it in a file format you can easily use, offering access to lightning data from less than one minute ago all the way back to 2016.

Multiple export formats from the web interface, including CSV and shapefile data formats, for use with your preferred analysis, presentation, report generation, or GIS tools.

Extensive lightning information including event type, cloud-to-ground stroke, or intra-cloud pulse event, date and time (UTC with milliseconds accuracy), precise latitude and longitude, peak current (kA), polarity (+/-), and much more.

Comprehensive data access without the need to invest in a data processing system or your own lightning detection sensors — saving real estate, time, maintenance, and operational costs.

Includes Strike Damage Potential, the world's first solution to provide accurate data on the particular lightning strikes that have greater potential to cause damage or start a wildfire.



The cloud-to-ground Strokes on the map are indicated by plus (+) icons and minus (-) icons, which become visible once zoomed in on the request area.

Why Vaisala?

Vaisala is the only company to offer 360-degree renewable energy solutions — from sensors and systems to digital services and actionable intelligence — nearly anywhere on the planet (and even on Mars). Every Vaisala solution benefits from our 85+ years of experience, pioneering deployments in 170+ countries, and unrivaled thought leadership.

Our innovation story, like the renewable energy story, continues.

VAISALA

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