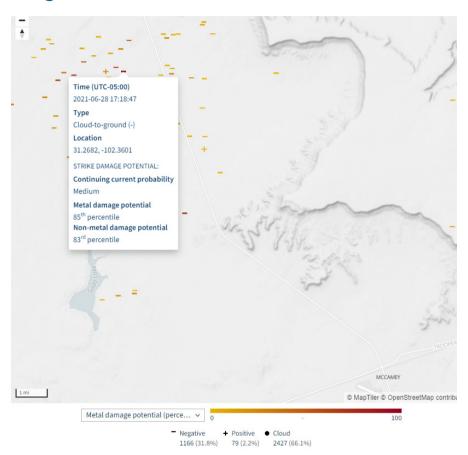


Strike Damage Potential for Solar Energy

Protect key energy assets by identifying and addressing dangerous strikes





Key benefits

Fast, confident decision-making

Strike Damage Potential simplifies lightning data into strike points and shows the precise location of the strikes — both near-real-time and historical — most likely to have started a fire or caused damage to a solar farm.

Improved cost efficiency

The system enables early, correct interventions so you spend less time and money on repairs, and can focus on the areas that really need attention.

Easy to use and integrate

The data subscription model provides quick insights through an easy-to-use interface or an API integrated with your own application.

The world's best lightning data

Built on GLD360 and NLDN — two of the world's most accurate and dependable lightning detection networks — Stike Damage Potential provides reliable insights anywhere in the world, onshore and offshore.

makers can use to intervene before a problem escalates to the point of endangering property, or threatening power generation and delivery.

Part of the Vaisala Lightning
Damage Insights suite of solutions,
Strike Damage Potential builds
on data from the Vaisala Global
Lightning Dataset (GLD360) and
National Lightning Detection
Network (NLDN). The data is
available with a subscription from
either network, accessible through
an easy-to-use interface or API.

Not all cloud-to-ground lightning strikes are the same. Most have little impact, while others can cause extreme heating damage or set fires to key energy assets and local environments. Vaisala Strike Damage Potential's precise storm analyses enable users to identify which strikes were most likely to cause damage and take informed, decisive action when it matters most.

Strike Damage Potential, part of our Xweather family of subscription based products, is the world's first solution to group lightning strikes into lightning strike points, and the first to provide accurate data on the potential for damage from each lightning strike. This includes compound lightning strikes that follow the same channel and strike the same point more than once. It also identifies the damaging strikes with higher probability of continuing current and lasting longer than 40 milliseconds, which can cause extreme heating.

Strike Damage Potential also delivers near-real-time notification and prioritization, which decision

Applications

Supports notification and analysis of:

- Solar farm electrical system damage or failure
- Overhead power line damage
- Property insurance claim validation
- Wildfire starts

		Secondary field to monitor
Solar farm damage investigation	Metal damage potential	Continuing current probability

Strike damage potential output data fields		
Metal damage potential	0 to 100th, percentile	
Non-metal damage potential	0 to 100th, percentile	
Continuing current probability	Highest, Higher, Medium, Lower, Lowest	
Strokes in strike (number)	1 to 20, integer	
Impulse charge (metals)	0 to 75 Coulombs	
Impulse specific energy (non-metals)	0 to 2000000 J/Ohm	
Ground strike point id	0 to 9999999999	
Strike point start	True or false	
Strike point location	Lat, Lon	

Other relevant fields from stroke data		
Peak current (stroke)	-9999 to 9999 kA	
Maximum rate of rise (stroke)	0 to 999.9 kA/µs	

Why Vaisala for renewable energy?

We are innovators, scientists, and discoverers who are helping fundamentally change how the world is powered. Vaisala elevates wind and solar customers around the globe so they can meet the greatest energy challenges of our time.

Our weather and environmental monitoring solutions for renewable energy are guided by several key priorities:

- Thoughtful evolution in a time of change
- Making renewable energy smarter at every stage
- Extending our legacy of leadership

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.





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without notice