

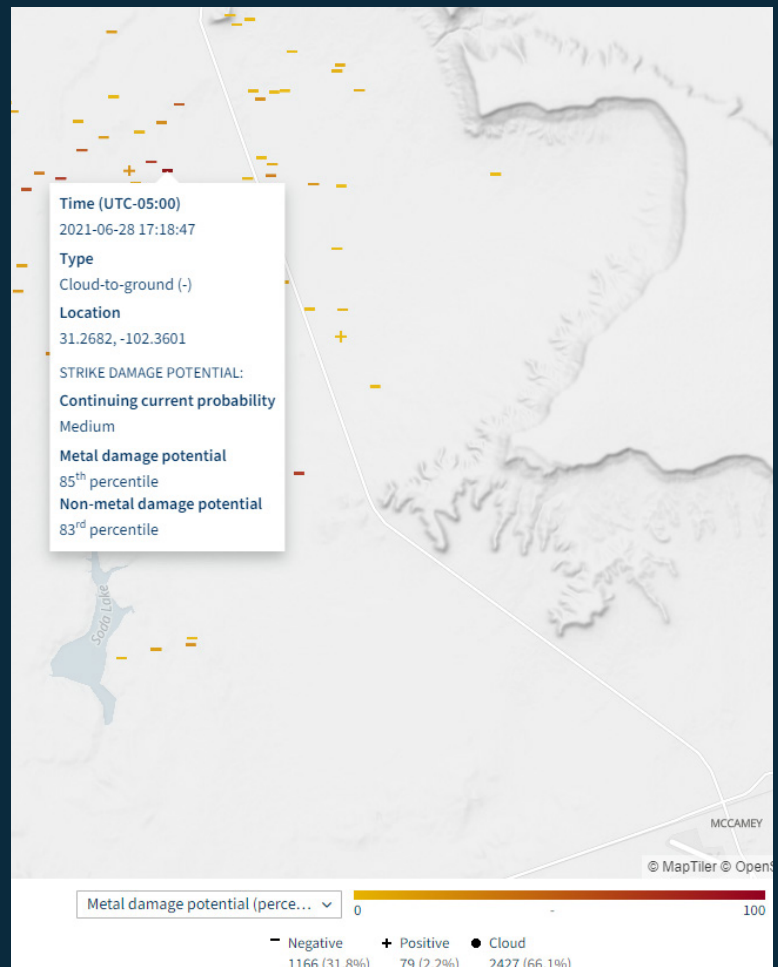
Strike Damage Potential for Solar Energy

VAISALA

Product Spotlight

Protect key energy assets by identifying and addressing dangerous strikes

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.



Key benefits

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.

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

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

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

Why Vaisala?

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 pioneering approach reflects our priorities of thoughtful evolution in a time of change and extending our legacy of leadership.

Vaisala is the only company to offer 360° of weather intelligence for smarter renewable energy, nearly anywhere on the planet. Every solution benefits from our 85+ years of experience, deployments in 170+ countries, and unrivaled thought leadership. Our innovation story, like the renewable energy story, continues.

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 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.

Supports notification and analysis of:

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

