

What is live solar irradiance data?

Live solar irradiance data refers to real-time data of solar energy received per unit area at a specific location. Solcast live data covers a time frame from 7 days ago up to the present time, and is updated every 5 minutes. This data set is also referred to as "actuals" as it represents the modeled actual weather conditions at the location.

How does solcast's real-time and Forecast solar data work?

Solcast's real-time and forecast solar data tracks and forecasts real clouds at a resolution of 1-2km and 5 minutes. Our irradiance data and PV power data is updated every 5 to 15 minutes, downsampled to 90 metre resolution. Aerosol and albedo effects are explicitly treated.

What is solcast live data?

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What is a solar NowCast?

A solar nowcast is a short-term solar irradiance forecast, up to 4 hours ahead, using real-time data. Solcast uses satellite cloud tracking models, using near real-time imagery from geostationary satellites, to track cloud movement and deliver high-resolution solar data every 5 to 15 minutes.

How does solcast generate solar irradiance data?

Solcast's live solar irradiance data is generated using a combination of satellite observations and weather models. Solcast processes these data sources using advanced algorithm models that account for atmospheric conditions, such as cloud cover and aerosol levels.

Why is live solar irradiance data important?

Live data is crucial for real-time grid management, operational adjustments, and performance monitoring, whereas forecast data is used for planning, energy production estimates, and scheduling maintenance activities in both utility-scale solar farms and distributed solar installations. How accurate is live solar irradiance data?

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100-watt solar panels on the roof. If you only use 300-watt solar panels, you can ...

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