

SolarAnywhere® Data

High-Accuracy TMY, Time-Series & Site-Adapted Irradiance Data for Solar Resource Assessment



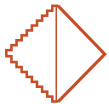
- ✓ Evaluate development sites
- ✓ Secure project financing
- ✓ Model long-term energy production

Why SolarAnywhere?



Comprehensive solar data

Bankable, built-for-solar irradiance data with extensive meteorological datasets



High-resolution data

Spatial: 10 km, 1km, 0.5¹
Temporal: 1 hr, 30 min, 15 min, 5 min¹



Global coverage

Globally consistent satellite-based model, available everywhere you operate



Energy modeling

Energy modeling through SolarAnywhere API POAI, bifacial PV and more



25+ years of historical data

Increase accuracy with long-term historical data



Extreme weather and loss insights

Understand risk with particulate matter, snow and soiling loss data, and horizon profiles

¹Resolution coverage dependent on location

Reduce project risk with industry-leading insight into long-term historical irradiance availability

Typical Year (TMY) Data

Quickly assess project feasibility at prospective sites with SolarAnywhere® Typical Year data. Typical year (TMY) data is a representative year of hourly meteorological datasets derived from the most “typical” months across years of time-series data. This provides site-specific insight into PV production for evaluation and energy simulations.

Time-Series Data

Optimize project design and secure the best financing terms with bankable, full historical data. SolarAnywhere provides a long history (25+ years) of subhourly time-series irradiance and weather data. Ideal for in-depth resource assessment, performance analysis, engineering and understanding interannual variability.

Site Adaptation (Ground Tuning)

Combine your ground-based measurements with SolarAnywhere satellite-based irradiance data to reduce solar resource assessment uncertainty and increase project profitability. SolarAnywhere Site-Adaptation Studies use an advanced methodology to tune long-term solar resource data to the unique conditions of your site.

Try SolarAnywhere Today

Visit [SolarAnywhere.com](https://solaranywhere.com) to sign up for an account. Purchase data instantly through our easy epay portal or test data at free Public sites.

Need an enterprise solution? Contact us to discuss how our team can help.

“As a leading global renewable energy developer, we strive to be the best energy partner for our customers. SolarAnywhere provides us with thoroughly tested and validated historical solar data. With SolarAnywhere, we can reliably and consistently define solar energy production and reduce project risk for our customers.”

BayWa r.e.
Prathamesh Thorat
Performance Specialist

SolarAnywhere Historical Data Validation

SolarAnywhere global horizontal irradiance (GHI) data is highly accurate, as reported in annual updates to the 95% confidence interval.

Region	MBE	95% C.I. of MBE	Standard Dev.	Ref. Years
North America	0.01%	[-3.37%, 3.40%]	1.73%	263
South America	1.21%	[-3.39%, 5.82%]	2.35%	67
Europe	1.06%	[-4.26%, 6.38%]	2.72%	380
Oceania & East Asia	0.33%	[-3.48%, 4.14%]	1.94%	136
Africa & West Asia	1.19%	[-3.16%, 5.54%]	2.22%	129
All	0.76%	[-3.53%, 5.05%]	2.19%	975

The statistics presented above are representative of product performance but should not be taken as an absolute indicator of accuracy. For additional information, see our [Validation Methodology](#) page.

Specifications

License Type	Typical Year (TMY), Typical Year+ (TMY+)	Sites (Time Series)
Time Period¹	Based on data from 1/1/1998 – year prior to current	1/1/1998 – current hour
Geography¹	Global	Global
Spatial Resolution	10 km, 1 km ²	1 km, 0.5 km ³
Temporal Resolution	1 hour, 30 minute ² , 15 minute ²	1 hour, 30 minute, 15 minute, 5 minute ³
Data Fields	<p>Irradiance</p> <ul style="list-style-type: none"> GHI DNI DHI Clear sky irradiance <p>Weather</p> <ul style="list-style-type: none"> Temperature Wind (speed, direction, gust) Snow depth Relative humidity Precipitation Surface albedo 	<p>Other</p> <ul style="list-style-type: none"> Elevation Surface albedo High-resolution (30m) horizon shading Solar geometry <p>Power Modeling</p> <ul style="list-style-type: none"> AC energy (kWh) AC power (kW) DC power (kW) Clear sky power (kW) Plane-of-array irradiance (POAI) Fixed tilt, single-axis trackers, backtracking Soiling losses Snow losses Time-series albedo data in PV simulations Bifacial PV

¹See [SolarAnywhere Geographic Coverage Area](#) for more details

²Available with Typical Year+ license type

³Resolution dependent on location

About SolarAnywhere

SolarAnywhere solar resource data and intelligence supports the entire solar lifecycle—from prospecting and development, to asset management and production forecasting. To learn more about industry-leading data and services from Clean Power Research®, visit solaranywhere.com.