



SolarAnywhere® Forecast

Maximize grid stability and asset profitability
with global solar power forecasting



- ✓ Maximize energy trading ROI
- ✓ Reduce operational risk
- ✓ Intelligently manage dispatchable PV
- ✓ Support DERMS, ADMs and utility operations
- ✓ Meet utility PPA requirements



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 www.solaranywhere.com

SolarAnywhere Forecast provides insight into expected PV production for the next week, day, hour, or minute.

Variability from localized cloud movement and weather events is a challenge inherent to the solar industry. However, with an advanced understanding of expected irradiance, solar stakeholders can reduce risk and enhance operational performance.

Using a research-backed blend of numerical weather prediction, satellite cloud motion vector modeling and other meteorological inputs, SolarAnywhere Forecast delivers the data necessary to make strategic business decisions. Forecast enables asset operators to confidently participate in energy markets, Independent Power Producers (IPPs) to meet their PPA requirements and hybrid operators to efficiently manage dispatchable PV systems.

Reduce financial risk with leading solar resource forecasting technology



Optimized model

Curated blend of forecasts for increased accuracy



Advanced energy modeling

No-cost energy modeling
Bifacial, soiling, snow loss,
capacity derate scheduling & more



1-minute Resolution

Highest forecast resolution in the industry available



Global Coverage

Available everywhere you operate



Enterprise-class API

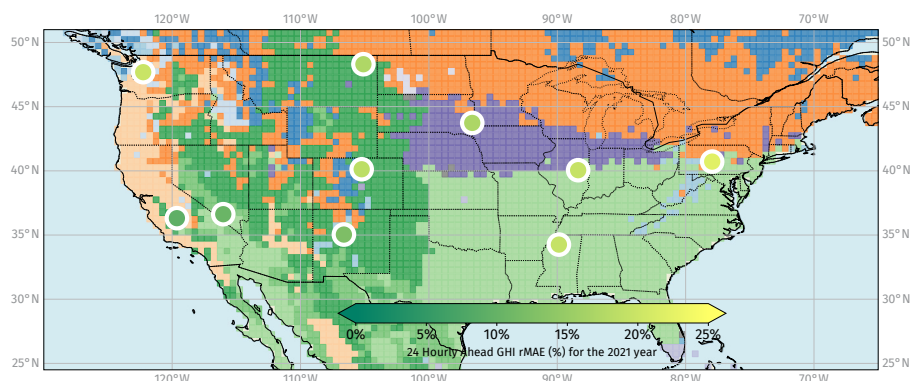
Unlimited API calls
Easy to use, reliable & secure



Industry Expertise

Exclusive partnership with
Dr. Richard Perez at SUNY-Albany

SolarAnywhere Forecast rMAE (%) at 24 Hours Ahead



Accuracies noted in the above figure are indicative of the irradiance forecast skill in their respective climate region. Validation of global horizontal irradiance (GHI) at ground sites in various Koppen Geiger climate zones throughout the continental US yields an average relative mean absolute error (% rMAE) of 14% at 1 hour ahead and 16.5% at 24 hours ahead. Translating this to power forecasting at utility scale sites, SolarAnywhere achieves a mean absolute error of less than 5% at 24 hours ahead (Perez, EPRI, 2018).

License Types & Specifications

	Basic	Standard	Advanced	Hindcast
Overview	<i>Quick start & low cost</i> Basic solar & power forecasts for DER and grid operational insights Support DERMS, ADMS and commercial operations	<i>High accuracy & availability</i> Industry leading forecasting for delivery prediction and flexibility Bid into day ahead energy markets Meet utility PPA requirements	<i>Advanced precision and functionality</i> The most accurate data for maximizing profits Inform real time energy trading	<i>Test Forecast with Historical Data</i> Test the Standard Forecast model using site-specific historical data Supports hybrid PV/BESS operations Forecast validation/trialing
Numerical Weather Prediction Models (NWP)	✓	✓	✓	✓
Satellite Cloud Motion		✓	✓	
Intelligent Model Blending		✓	✓	✓
High Resolution (1-minute) Data			✓	
Site Data Integration			✓	
Delivery	API only	API, FTP or email	API, FTP or email	User Interface or API
Forecast Resolution	1-hour Up to 25km	1-hour, 30-minute, 15-minute Up to 5km	Standard + 10, 5, 1-minute 1km	1-hour, 30-minute, 15-minute Up to 5km
Forecast Horizon	5-day ahead	14-day ahead; 75-day ahead climatology	High resolution up to 6 hours ahead	3-year lookback
Geography¹	Global	Global	Global	Global
Product Support	Customer Support: Email only	Forecast availability: 99.9% Customer Support: Email + 3 hours / site/year interactive ²	Forecast availability: 99.9% Customer Support: Email + 1 hour/10 MW/ year interactive ²	
Data Fields	Irradiance GHI DNI DHI	Weather Temperature Wind speed Snow depth Relative humidity	Power Modeling AC energy (kWh) AC power (kW) DC power (kW) Snow losses Bifacial PV Capacity derate scheduling	Plane of array irradiance (POAI) Clear sky power (kW) Fixed tilt, single-axis trackers, backtracking

¹Learn more about SolarAnywhere geographical coverage at www.solaranywhere.com/support/geographic-coverage/

²Interactive customer support includes phone or shared-screen online meeting applications

Learn More

Interested in learning more about SolarAnywhere Forecast?

Visit our website

Go to www.solaranywhere.com/products/solaranywhere-forecast/ to learn more about SolarAnywhere Forecast

Ask a Technical Question

Get in touch with SolarAnywhere Forecast Product Manager Matt Stevenson, at matts@cleanpower.com

Request a Trial

Ready to try it out? To request a SolarAnywhere Forecast trial, contact our team at www.solaranywhere.com/contact