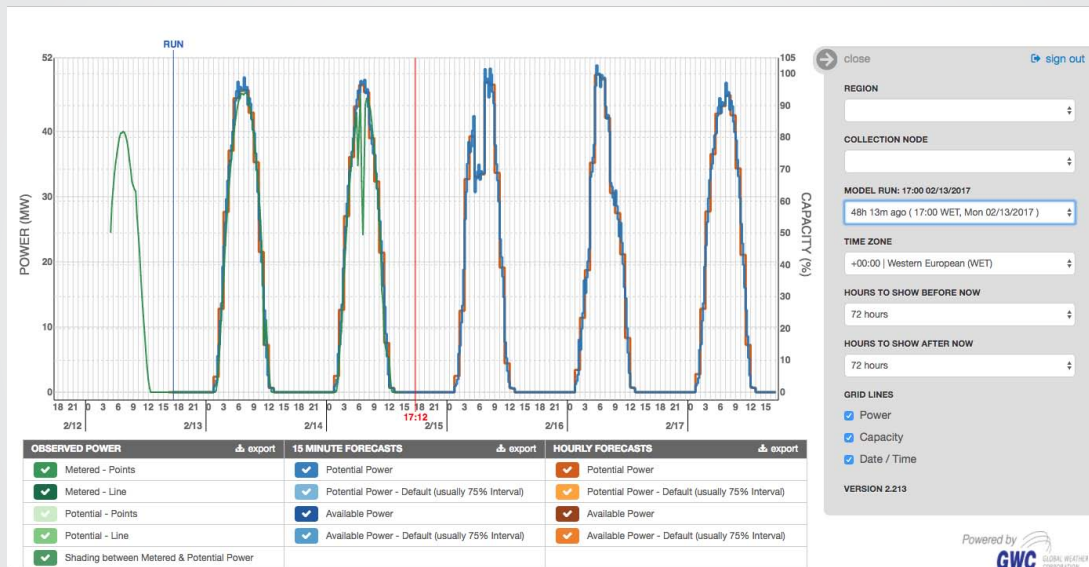


Global Weather Corporation's SolarWX™ service provides forecasts of Global Horizontal Irradiance (GHI) and estimated power output (when system characteristics are available), for any solar installation at any location in the world. SolarWX's accurate estimates of GHI enable applications such as solar energy generation, home and industrial energy use, and agriculture. Typical users include utilities, energy traders, smart home applications, photovoltaic monitoring systems, and agricultural information services. Forecasts can be displayed in our simple, intuitive, web-based display, shown here. Alternatively, our forecast data feed can be integrated into any customer system.

User Interface for SolarWX Services



The forecasted power (orange line) and the actual power (green line) are displayed for the past 72 hours. Prior forecasts can be displayed with observed data allowing users to validate forecasts.

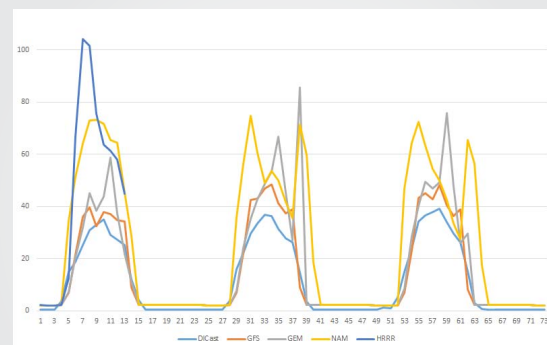
SolarWX combines two critical modeling steps.

1. The first is GWC's best-in-the-world atmospheric forecast,¹ used in this case to generate GHI information.
2. The second is our power conversion model that converts GHI to forecasted output power. Some customers need only GHI; others need the conversion to power as well. When observational data are available, the system can provide an improved forecast based on statistical analysis of the observations.

Accuracy of both the GHI and power conversion steps has been verified by comparison to observations. The line graph shows forecast error statistics for a 72-hour period, illustrating GWC's reduction in forecast error (light blue line) as compared to U.S. and Canada weather service models.

1. ForecastWatch is an independent provider of forecast accuracy and skill information. Read the report at http://forecastwatch.com/static/Three_Region_High_Temperature_Study_2014.pdf

SolarWX Forecast Validation



GHI forecast average error statistics (in W/m²) averaged over three months, with light blue line showing GWC reduction in forecast error.

SolarWX is generated at hourly intervals, with forecasts available to 168 hours. Observations of GHI and power, when available, are input to the system. These data are used to optimize the forecast generation and power conversion steps in the processing chain. Output is available through GWC's web-based time-series graphical user interface and as a data feed for integration into automated processes. The table below summarizes the standard output variables when power output data are provided in addition to GHI.

Data for SolarWX Services

VARIABLES AVAILABLE

- › Potential Power at Node
- › Average GHI at Site
- › Rolling 7-day Power %MAE
- › Rolling 30-day Power %MAE
- › Potential Power 25th Percentile
- › Potential Power 75th Percentile
- › Power as % of Capacity
- › Available Power at Node
- › Available Power 25th Percentile
- › Available Power 75th Percentile
- › Available Power 7-day %MAE
- › Available Power 30-day %MAE

DELIVERY METHOD

- › Standard web services as bulk CSV files

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