

Forecasts based on meteorological models

ABOUT

SteadyMet provides weather, solar and wind production forecasts up to 15 days ahead. This product combines several sources of Numerical Weather Predictions (NWP) data with physical models and artificial intelligence.

SteadyMet can be configured at very high resolution using the Weather Research and Forecasting (WRF) model, providing highly accurate forecasts at local scale. Steadysun is able to implement and optimize this model anywhere in the world to meet the need of high-quality day-ahead forecasts.

KEY BENEFITS



WORLDWIDE COVERAGE

Thanks to a large number of global and regional NWP data from several weather services



TAILORED OUTPUTS

In terms of weather parameters, update frequency, granularity and delivery settings



BEST-IN-CLASS SOLUTION

An approach combining ensemble predictions from the leading weather models, real-time on-site measurements and cutting-edge technologies to offer accurate probabilistic forecasts



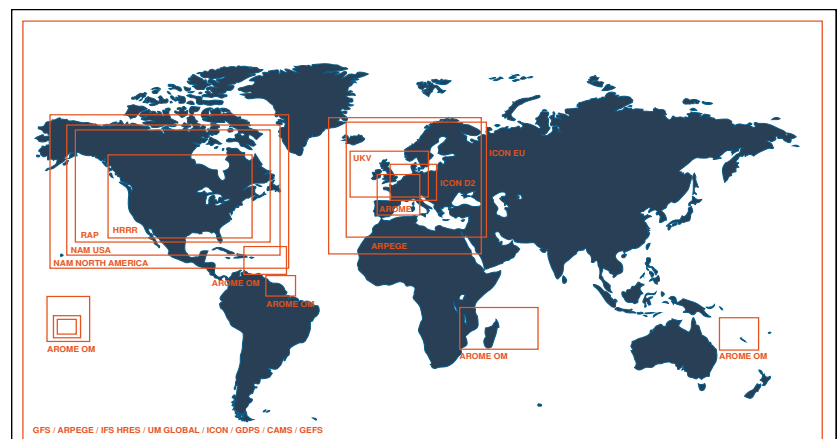
RELEVANT FOR MICROCLIMATES

An in-house regional model at very high spatio-temporel resolution, providing realistic and precise forecasts in areas where local effects are significant and public regional weather models are not available

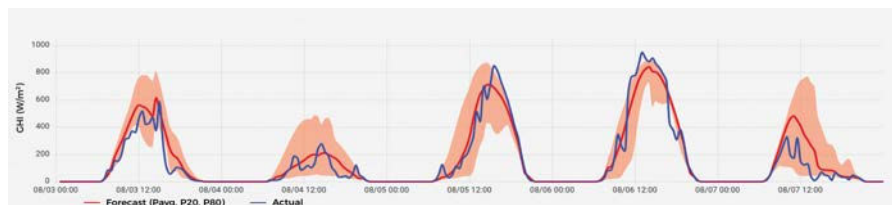
SOLUTIONS

- Plant operations
- Grid management
- Renewable energy trading
- Portfolio management
- Smart grids and smart cities

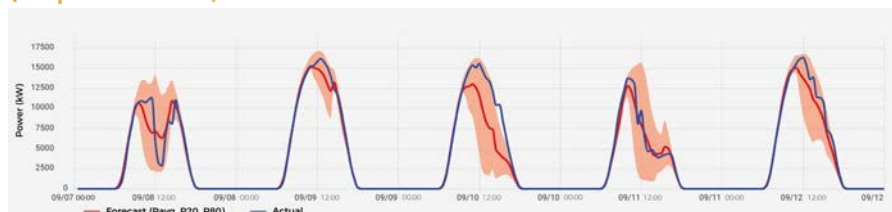
GLOBAL AND REGIONAL NWP MODELS



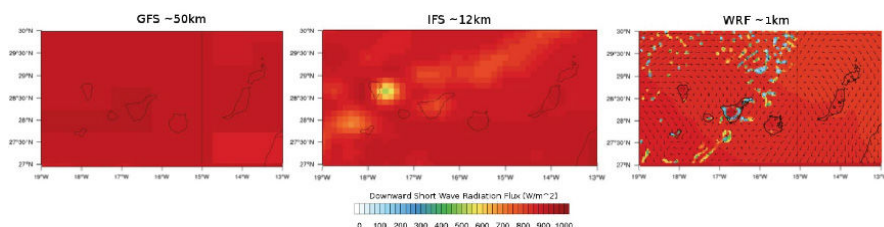
Day-ahead GHI forecasts for 1 site (mid-latitude oceanic climate)



Day-ahead power forecast for a 30 MWp distributed PV portfolio (tropical island)



Multi-model GHI forecast above subtropical islands



FEATURES

Up to 1 hour
Update frequency

1 min
Forecast time-step

Power, GHI, DNI, DHI, GTI, temperature, wind speed, wind direction, etc.
Available parameters

Site, Portfolio, City, Region or Country
Geographical coverage

PV, CSP, Onshore, Offshore
Technology

API, SFTP, etc.
Data delivery

P10, P20, ..., P80, P90
Confidence levels

METHODOLOGY

