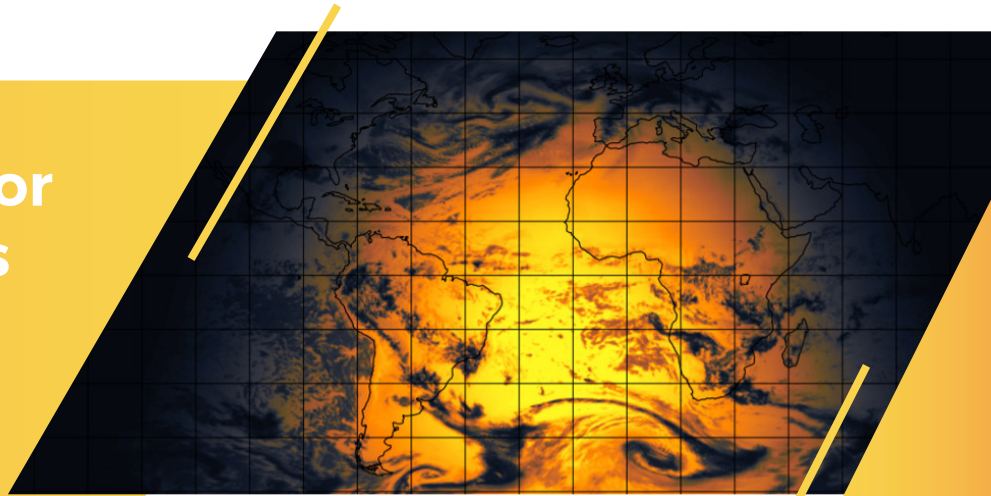




## Solar forecasts for the coming days

Based on meteorological models for day-ahead solar forecasting needs







### ABOUT

SteadyMet provides weather and solar 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.

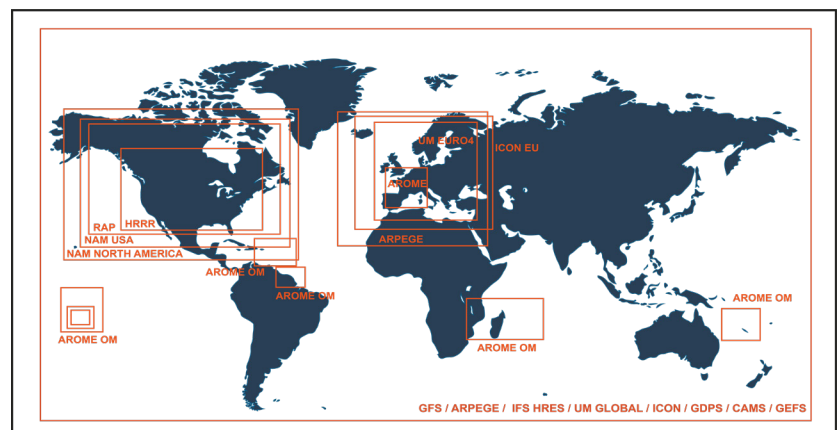
### KEY BENEFITS

-  **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 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

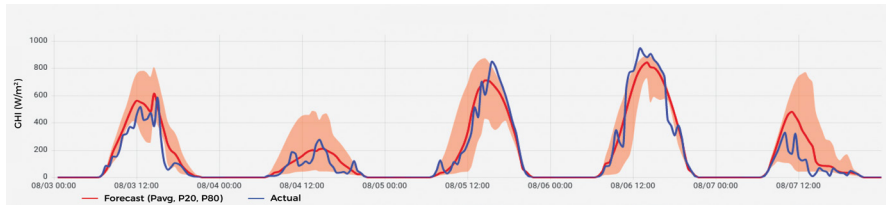
### SOLUTIONS

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

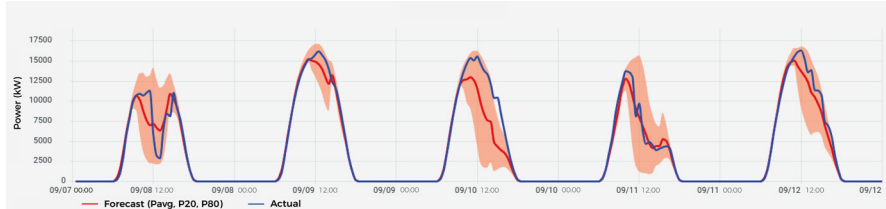
### GLOBAL AND REGIONAL NWP MODELS



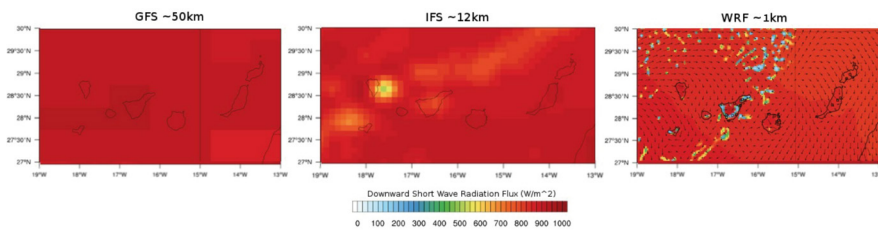
## Day-ahead GHI forecasts for 1 site (mid-latitude oceanic climate)



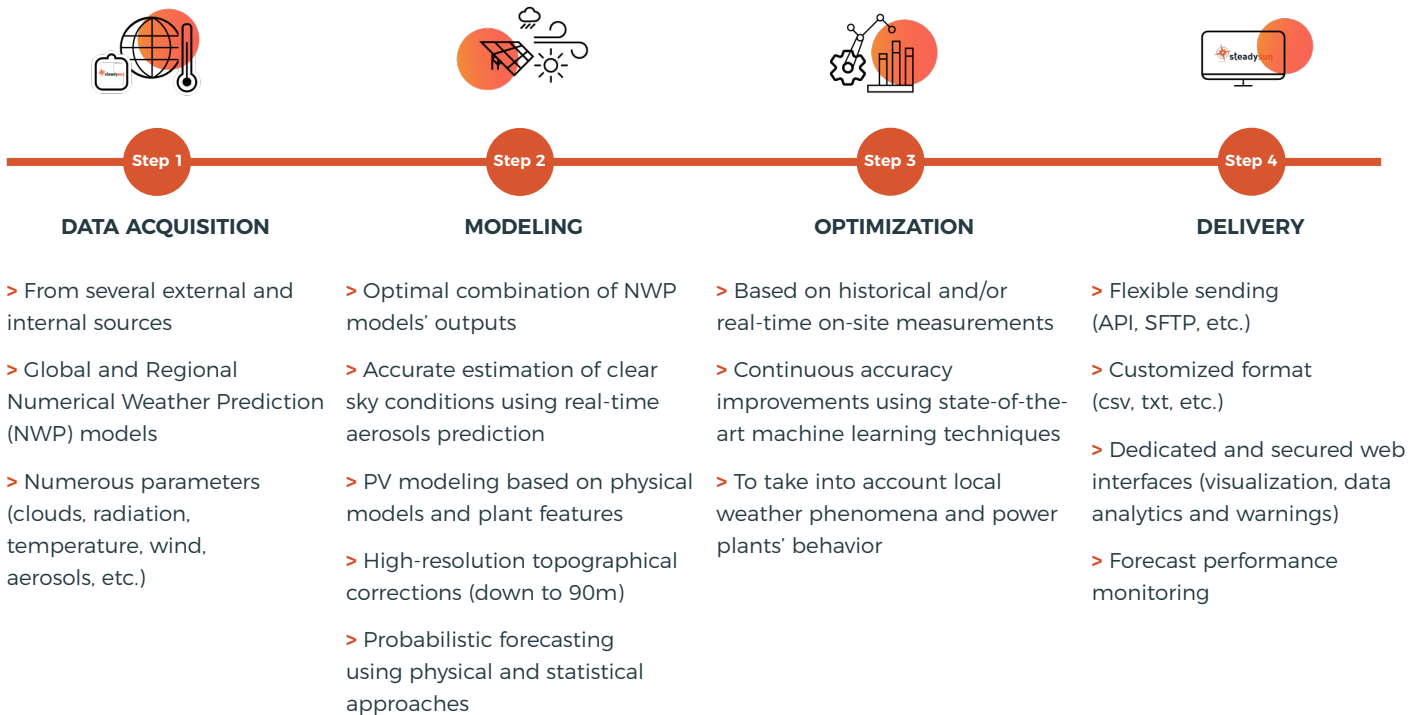
## Day-ahead power forecast for a 30 MWp distributed PV portfolio (tropical island)



## Multi-model GHI forecast above subtropical islands



## METHODOLOGY



## FEATURES

4 times a day  
Update frequency

1 min  
Forecast time-step

Power, GHI, DNI, DHI, GTI,  
Temperature, Wind, etc.  
Available parameters

Site, Portfolio, City, Region  
or Country  
Coverage

PV, Trackers, Bifacial, CSP  
Technology

API, SFTP, etc.  
Data delivery

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

