

Solar energy

Assessments, analysis, forecasts and projections



Solar atlas

Solar energy resource assessment

Solar power

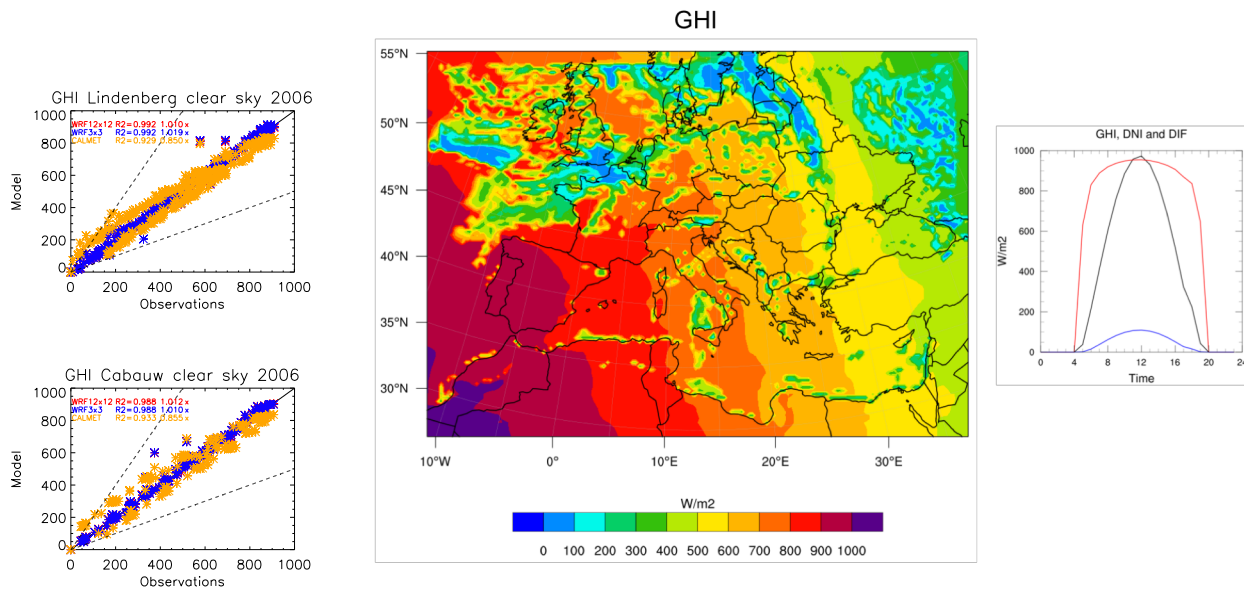
Forecasting

Local/regional and global scale

Creative thinking for innovation!

Due to increasing environmental concerns, the capacity of electricity production from photovoltaic systems is rising worldwide. **Solar electricity production** strongly depends on intermittent weather conditions. In the **renewable energy** sector very high-resolution of **solar energy assessments and forecasts** are required to capture the topographic effects on irradiation, especially over mountainous and coastal areas. **Accurate forecasts** help **optimize** the exploitation of **photovoltaic power plants**, **improve** the management of **the electricity grid** and **improve** its integration into the **electricity market**.

MetClim can help you with solar energy assessments and forecasts.



We provide historical and future solar energy assessments using state-of-the-art modelling (including solar attenuation by aerosols and gases) and statistical analysis tools. We provide long term assessments under different climate change RCP scenarios (up to year 2100) that will help you understand if an area receives more or less solar energy under a changing climate.

Reference:

De Meij, A., et al., GHI calculation sensitivity on microphysics, land- and cumulus parameterization in WRF over the Reunion Island, Atmos. Res., [Volume 204](https://doi.org/10.1016/j.atmosres.2018.01.008), <https://doi.org/10.1016/j.atmosres.2018.01.008>, May 2018.