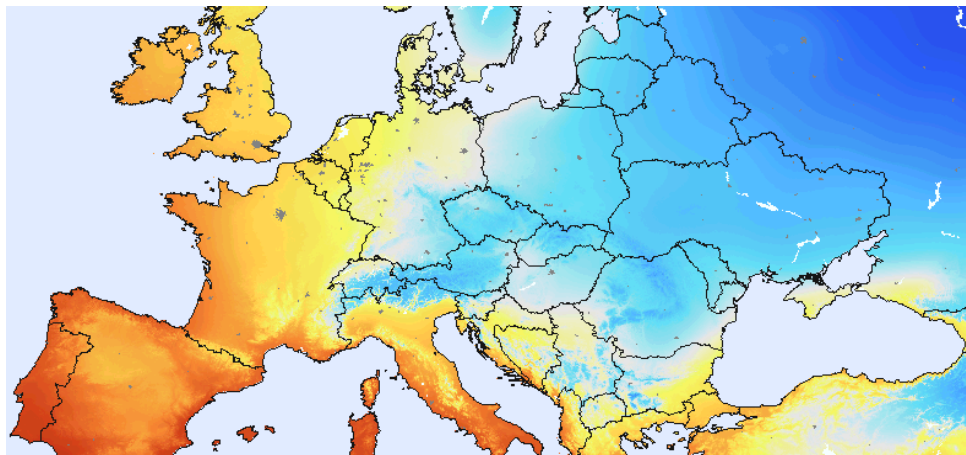
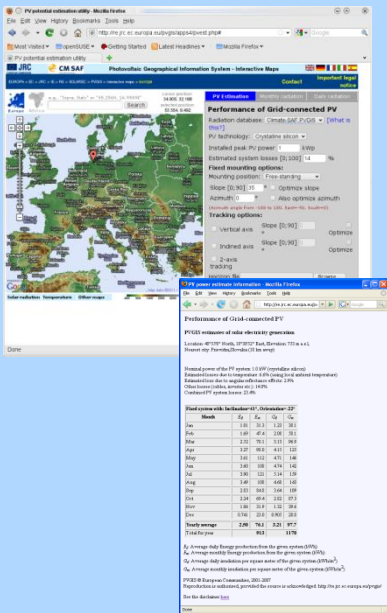


PVGIS

Internet tools for the assessment of photovoltaic solar energy systems

<http://re.jrc.ec.europa.eu/pvgis/>
Information for any location can be queried by:

- browsing thematic maps
- searching with a place name or its geographical coordinates.



The Photovoltaic Geographical Information System (PVGIS) provides web access to:

- solar radiation and temperature data
- PV performance assessment tools

Solar Irradiation

Monthly and yearly averages of solar irradiation at horizontal and inclined surfaces, ambient temperature, optimum inclination of PV modules, country maps and animations.

Average daily irradiance

The average daily irradiance profile for a chosen month is calculated for a given module inclination and orientation. Simulation of clear-sky and average real-sky irradiances takes into account also local horizon and terrain shadowing from digital elevation model at 100-m resolution.

Estimation of PV electricity generation

Monthly and yearly PV electricity potential can be assessed for crystalline-silicon or other PV technologies mounted in a fixed position or on various tracking systems. Alternatively, inclination and orientation of fixed-mounted modules can be optimised.

Estimation of off-grid PV systems

Based on daily irradiation sums, PVGIS calculates monthly and yearly energy output as well as statistical information on system reliability and efficiency.

Contact:

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