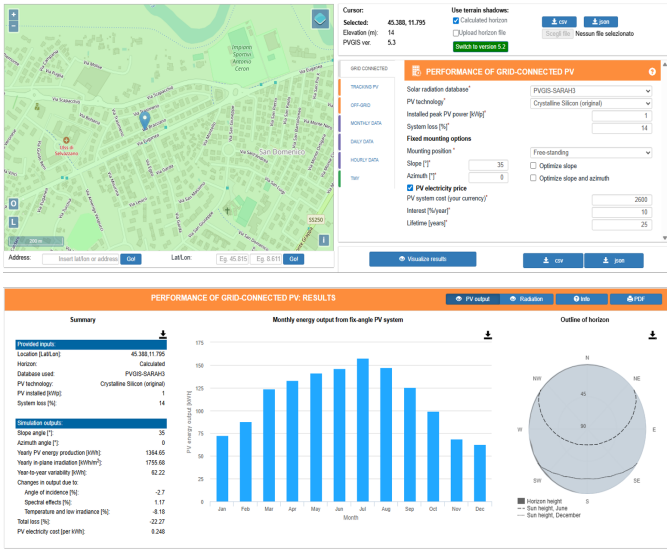
PVGIS



SOURCE
https://re.jrc.ec.europa.eu/pvg_tools/en/

DEVELOPER
European Commission's Joint Research Centre

TYPE OF RESOURCES
Energy simulation tool (RES)

AVAILABLE FOR FREE/LICENSE
Entirely free

USER FRIENDLINESS
User-friendly

TUTORIALS AVAILABLE
https://www.youtube.com/watch?v=Zm4NLbvOwjw

SHORT DESCRIPTION
Web application that allows the user to obtain data on solar radiation and photovoltaic (PV) system energy production, including cost of PV electricity anywhere in most parts of the world. It provides estimates on monthly and yearly electricity production of a PV (fixed PV connected to the electricity grid, free-standing or on a building, tracking PV, or Off-grid), by selecting the location and some parameters.

PHASE OF THE H&C PLAN
Intervention and decarbonisation scenarios: Renewable energy sources

OUTPUT OF THE TOOL
- Monthly and yearly electricity production [kWh]
- Monthly and yearly in-plane irradiation for fixed angle [kWh/m2]
- PV electricity cost [€/kWh]

REQUIRED INPUT
- Location PV technology Installed capacity System Loss Mounting options
- Location Slope and Azimuth angle
- PV system cost Interest Lifetime

MAIN ADVANTAGES
Allow to download hourly values

MAIN DISADVANTAGES
Limited choice among PV technologies (Crystalline silicon, CIS, CdTe).