

Data collection of photovoltaic inverters

How is PV system data collected?

The PV system data is collected when the installers apply to the grid operator for a grid connection. Registers developed in order to follow the financial incentives and especially the feed-in tariffs granted to PV systems normally collect DC power information (nominal power of PV modules under standard test conditions STC).

What parameters are required for a photovoltaic system?

For photovoltaics, there are also some specific parameters required (fixed, 1-axis or 2-axis; peak power, inverter power, and retribution obtained). Dynamic data (e.g. energy yield data) is not covered by the database.

What is a photovoltaic monitoring system?

Local and remote photovoltaic monitoring systems are primarily used to collect data about solar panels for the purpose of maintenance and repair. Additionally, monitoring systems are used to measure and analyze energy production performance data. Another objective is to minimize hazards to personal safety associated with periodic manual controls.

What data transmission methods do PV Monitoring systems use?

Data transmission methods vary according to the type of the PV monitoring system. Although wired data transmission was used in previous years, wireless communication methods have been more frequently preferred in recent years, especially in measurements made at the PV module level.

Why do we need PV data?

Data of PV plants are necessary for a range of use cases. Policy makers should know the impact of policies on the market, FIT agencies must know exactly which system produces how much energy, and system operators must be able to calculate the impact of the PV system to their grid, to name just a few.

What is solar photovoltaic (PV)?

Solar photovoltaic (PV) is an increasingly significant fraction of electricity generation. Efficient management, and innovations such as short-term forecasting and machine vision, demand high-resolution geographic datasets of PV installations.

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