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Panasonic photovoltaic modules deliver greater than 70% solar system efficiency

10 July 2020. Photovoltaic systems using Panasonic modules achieve over 70% system efficiency, says SunReport, a service that allows installers to verify the operation of photovoltaic systems. The calculation, based on the "performance ratio" of the system - the ratio between actual energy yield and theoretical yield - takes into account official energy production data of the systems provided by Gestore Servizi Energetica S.p.A (GSE, the Italian state-recognized renewable and energy-efficiency company) compared with theoretical yield data provided by the manufacturers.

SunReport is the online portal that compares and evaluates the performance of registered solar energy installations. The calculation is based on objective elements:

- Energy production taken from data provided by the GSE;
- Solar radiation data from Eumetsat, an intergovernmental organization that provides data, images and satellite and meteorological products related to climate, 24 hours a day, 365 days a year;
- Installation information such as position, orientation, azimuth, output and module type, manufacturer and inverter type.

The platform covers a total of 28,000 photovoltaic systems, many of which have been in service for over 10 years. The analysis, carried out at the end of 2019 on fixed-structure installations with less than 500 kW power output, gave a result of 0.707 for installations with Panasonic HIT® modules - the most efficient panel system from various suppliers used in at least 500 installations.

"We were founded in 2006 with the aim of making an easy-to-use tool to monitor all photovoltaic systems available to installation owners and installers and to check for any production reductions in energy output. The wealth of data we have today is also proving useful for analyzing the performance of modules on the market," says Nicola Raffaele Di Matteo, founding partner of SunReport.

"The SunReport data is not only an important measure of performance ratio, but also an excellent tool for analyzing decline in module performance over time - some of the systems monitored have been in operation since 2007," says Fabrizio Limani, Senior Manager Solar Division, Panasonic Solar.

Over the past 40 years, Panasonic has invested more in solar technology development and research than any other company.

Its HIT® photovoltaic modules are manufactured in the former Sanyo facilities and use heterojunction technology, which combines crystalline and thin film technology, taking full advantage of both. They have a 25-year product warranty plus a performance warranty that ensures they will continue to produce 86.4% of the specified power output at the end of the 25-year period.

Further information:

Panasonic Solar: <https://eu-solar.panasonic.net/de/>

Sunreport: www.sunreport.it

Press release on website:

<https://eu-solar.panasonic.net/en/panasonic-solar-system-efficiency.htm>

Photo: Pressrelease_Sunreport_final

Photovoltaic systems using Panasonic modules achieve over 70% system efficiency. This is the result of the SunReport analysis.

Photo credit: Panasonic

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