

1 MW MARKET PARITY PV PLANT

SUNGROW INVERTERS
SG60KTL

CHALLENGE

This PV plant is the first Market Parity project equipped with Sungrow inverters, based in Italy. In times without feed-in tariff, the challenge was to build a new ground-mounted PV plant that was able to compete with Sicilian electricity market prices, balancing CAPEX and OPEX in order to be price-competitive.

SOLUTION

The solar park has been built in the sunniest region of Italy, on a plain field with modules facing the sun in southern direction, to catch as much irradiation as possible. Beside the size of the PV plant, around 1MW, the customer had chosen a solution with string inverters installed next to the PV module strings.

BENEFIT

Being operative within Market Parity is the largest benefit of this PV plant. The string inverter configuration also gave significant advantages such as string identification and monitoring, easy installation and maintenance. The SG60KTL string inverter is IP65 certified, so it can be installed outdoors without any issues.

Location

Fulgatore, Sicily, IT



Ground-mounted PV plant
32.600 sqm 4.048 PV modules

New installation with SG60KTL
Sungrow inverters

17 SG60KTL string inverters installed
underneath the PV module structure

Annual production forecast
1.600MWh



OTT Service s.r.l.

Proprietario impianto:
OTT Group

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Description

The photovoltaic generator has a DC power of 993,14 kWp; it is mounted on fixed ground mounting structures, on a plain ground with a tiny slope of 20 degrees. The total amount of PV modules is of 4.048 pieces of two different brands and power, 1.968 of 230Wp and 2.070 of 260Wp, in portrait layout with south orientation.

There are 17 Sungrow SG60KTL inverters, fixed on the same mounting system used for the PV modules. The PV plant has been connected to the grid on July 2018, building operations lasted around two months.



Big PV plant, small inverters

The 1 MW PV plant equipped with 60kW string inverters has major advantages - both technical and economical.



Just a little protection

Inverters are installed under the modules just to protect them from direct sunlight.



Beautiful landscape, beautiful photovoltaics

The photovoltaics systems integrates harmoniously with the beautiful landscape of this particular region of Sicily

Design and implementation of activities were performed in collaboration of Sungrow and OTT Service s.r.l.

Sungrow Power Supply Co., Ltd ("Sungrow") is a global leading inverter solution supplier for renewables with over 68 GW installed worldwide as of June 2018. Founded in 1997, Sungrow is a leader in the research and development of solar inverters, with the largest dedicated R&D team in the industry and a broad product portfolio offering PV inverter solutions and energy storage systems for utility-scale, commercial, and residential applications, as well as internationally recognized floating PV plant solutions. Sungrow EMEA's headquarter is based in Munich, Germany, with local subsidiaries in Italy, Spain, France, UK, Turkey (Representative Bureau) and UAE. The Company has shipped more than 5 GW of PV and Storage products to key markets in the region, mostly in the utility-scale segment.

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