

750 kW ROOFTOP PV PLANT

WHEN LAYOUT MATTERS



SG110CX



REVAMPING



PERFORMANCE IMPROVEMENT

**IN REVAMPING “WHO SPENDS MORE, SPENDS LESS”,
THAT’S WHY IT IS CONVENIENT TO RENEW THE INVERTERS.**

On a photovoltaic system installed in 2010 on the roof of an industrial warehouse, it was necessary to redo the wiring due to the damage suffered by the original one. Furthermore, the configuration of the site, with centralized inverters very far from the transformer station, required long cables with large cross-sections.

The power generation was then redesigned and the plant layout was converted from centralized to string. This has allowed significant savings in terms of material, as well as having new and more reliable inverters, ensuring a new and lasting life for the system and a substantial increase in production.

Location
Bergamo, Italy

System
Rooftop PV plant
(revamping)
7x SG110CX

Yield increase
+20%

EPC



Manni Energy srl
Via A. Righi, 7 | 37135 Verona | Italy
Tel 045 8088911
sales.mannienergy@mannienergy.it

BENEFITS

In the four-month period following the intervention, the production of the plant went from 154,450 kWh in 2020 (pre-revamping) to 185,790 kWh in 2021, increasing by more than 20% after carrying out the revamping operations.



SG110CX inverters have 9 MPPT's and a total of 18 string inputs.

Franco Citron

Business Development, Key Clients & Technical Supervisor – Manni Energy

“We were contacted by the customer for a restoration of the wiring concerning their 750 kWp plant built in 2010. As our practice when we approach revamping of plants, especially if dated, our engineering analyzes the entire plant and evaluates the most convenient solution considering the return on investment.

With this in mind, we have studied and submitted an optimization of the wiring to our customer. At the same time we suggested replacing the old (albeit still functioning) central inverters for new string inverters.

In Sungrow we have found an ideal partner to meet this need, and the solution was specifically identified on the SG110CX model.

We can say with satisfaction that we have recorded an increase in production of 20% compared to the same period of the previous year “.

ABOUT **SUNGROW ITALY**

Sungrow has been present in Italy since 2010 and currently counts about 450MW of inverters installed and still active, both centralized and string, spread throughout the country in applications ranging from small residential rooftop systems to large ground mounted “utility-scale” systems.

With a large portfolio of CEI 0-21 and CEI 0-16 certified products, Sungrow Italy is able to satisfy all installation needs both on new systems and for revamping actions, guaranteeing a fast and professional pre and post sales assistance service in all cases and also offering solutions for the BESS utility market.

ABOUT **MANNI ENERGY**

Manni Energy is the Manni Group company dedicated to the energy transition, specializing in the provision of O&M services for medium and large photovoltaic systems.

The deep knowledge of the Italian O&M sector and technology allows Manni Energy to guarantee the highest quality of plant management, as well as the ability to diagnose and resolve anomalies and complex events. Manni Energy provides a “turnkey” revamping service assisting the owners of the plants not only in the technical design and execution of the interventions, but also in the selection of the best solution based on the authorization, economic and financial implications of the intervention.