

Case Study: SIRTE



Jinko Solar Smart Modules

Location:	Porcari (LU), Italy
System output:	199.68 kWp
Modules:	768 Jinko Solar 260W Smart Modules
Inverter:	8 SMA Sunny Tripower 25000TL-30
Installer:	Sirte Impianti
Designer:	Eng. Andrea Onasini – Onasini Designer Associated

Summary

A.Celli Nonwovens of Porcari (Lucca) decided enough was enough when the last exorbitant electricity bill arrived, opting to solve the problem with a 199.68 kWp PV system. The installation components were chosen on the basis of the customer's own meticulous analysis, favoring products that guaranteed high performance, maintaining initial business plan forecasts over time. The customer chose to install 768 JinkoSolar multi-crystalline panels with Tigo Energy optimizers built directly into the junction box.

The Tigo system was chosen as some areas of the roof are in shadow. No additional work was required during installation, as the optimizers are built into the modules, a factor that helped keep costs in line with the customer's budget. The difference though, compared to a traditional system, is that the optimizers aim to guarantee 4-5% more clean energy from each module.

Another advantage of having the Tigo optimizers in the JinkoSolar modules is the option to constantly monitor the production of each single module. The optimizers in fact are also used to automatically detect any faults, so repairs can be done as soon as possible. On a system this size, the possibility of immediately finding a module and the relative fault means savings of many thousands of Euros, which would otherwise be wasted in production losses and fault-finding.

Furthermore, the Tigo PV Safe function disconnects each system module in an emergency, an essential feature for an installation subject to fire-prevention regulations as in this case.

Customer Experience

"A.Celli Nonwovens decided to put ecological sustainability at the very center of their production process. This was made possible by targeted investments, in collaboration with a green team of specialists and a brand of technology offering time-tested reliability.

The total investment amounted to 195,000 Euros. Thanks to estimated annual electricity bill savings of 30,000 Euros, an annual production of 226,700 kWh and the company's own consumption of around 65%, the initial investment should be paid off in approximately seven years."

- Fabio Tomberli, Owner, Sirte Impianti

