

The research center "BIO.GE.M." and INS.EL choose Sunerg Intelligent

Location:	Ariano Irpino, Italy
System Size:	244.4 kW
Modules:	Smart Module Sunerg 260 W
Inverter:	ABB
Installer:	INS.EL

Summary

INS.EL, renewable energy design and installation company, in collaboration with "EDILIZIA M & M", have been commissioned by the research center "BIO.GE.M." to build a solar plant atop its roof using Sunerg smart modules with Tigo Energy optimizers integrated in the junction boxes.

The plant is subject to severe environmental conditions that can cause mismatch linked to dust produced by the processing of the surrounding land and the massive bird population, making this system very sensitive to degradation due to accumulation of dirt on the modules.

The Tigo patented Impedance Matching technology is the ideal solution to mitigate such kinds of mismatch. The technology allows to collect the maximum energy available from each module independently, boosting the weaker modules that have been affected by such conditions.

For the client it was also important to reach high safety standards. This was possible thanks to Tigo's PV-Safe function that shuts down the array at the module-level, ensuring panels are safe (string Voc = 0V) for fire guards, emergency personnel, and O&M contractors.

Customer Experience

"Having already had positive experiences with the use of Tigo maximizers, I had no doubt to use them again in the project, when I considered the peculiarities of this particular system.

The choice fell on the Smart Module to maximize improved energy production while ridding the system of hot spots and environmental mismatch issues.

A further advantage of using Tigo is that customers and installers can enjoy a unique and totally free-of-charge monitoring platform that enables module-level visibility, making it intuitive, easy, and user-friendly.

The integration of optimizers in the junction box facilitated and considerably sped up the installation process, reducing BOS costs. We are very pleased with the experience with Tigo System."

