

JTI Turkey Selects SolarEdge for Smart Solar Investment

World-leading manufacturer Japan Tobacco International (JTI) traditionally promoted energy efficiency measures to meet its global carbon footprint reduction target. JTI Turkey ventured to be the first in JTI to diversify its energy supply with Renewable Energy by going solar. The energy from the 514kWp PV array installed on the roof of the new facility in Izmir has been designated for self-consumption to reduce electricity costs.

JTI's research on solar PV lead them to SolarEdge. With operations and maintenance as a top priority, JTI saw SolarEdge's free module-level monitoring, enabling remote troubleshooting and pinpointed alerts, to be a strong advantage. The fact that SolarEdge is a top-tier, bankable supplier, and that it is able to accelerate ROI with added energy thanks to reducing losses caused by mismatch, were also key considerations influencing JTI's decision. And because safety is a central focus at JTI, demonstrated through regular safety inspections by JTI Global, the ability of SolarEdge's SafeDC™ to reduce DC voltage to a safe level during emergencies was judged to be crucial to maintaining the company's high safety standards.

"JTI Izmir contracted Konar to deploy their solar PV array, and we jointly decided on installing SolarEdge solutions. Rather than looking to save in the short-term on their CAPEX expenses, JTI focused on deriving maximum value from their long-term investment."

Tolga Özdemir, CEO & Founder, Konar



Installation Date:
March 2017

Japan Tobacco
International (JTI)
Torbali Izmir, Turkey

Peak Power:
514 kWp

Modules:
1836 x Hanwha
Q-Cells 280 W

Power Optimizers:
918 x P600

Inverters:
18 x SE27.6K



The 514kWp solar PV system was installed on the roof of JTI Torbali's logistics center.

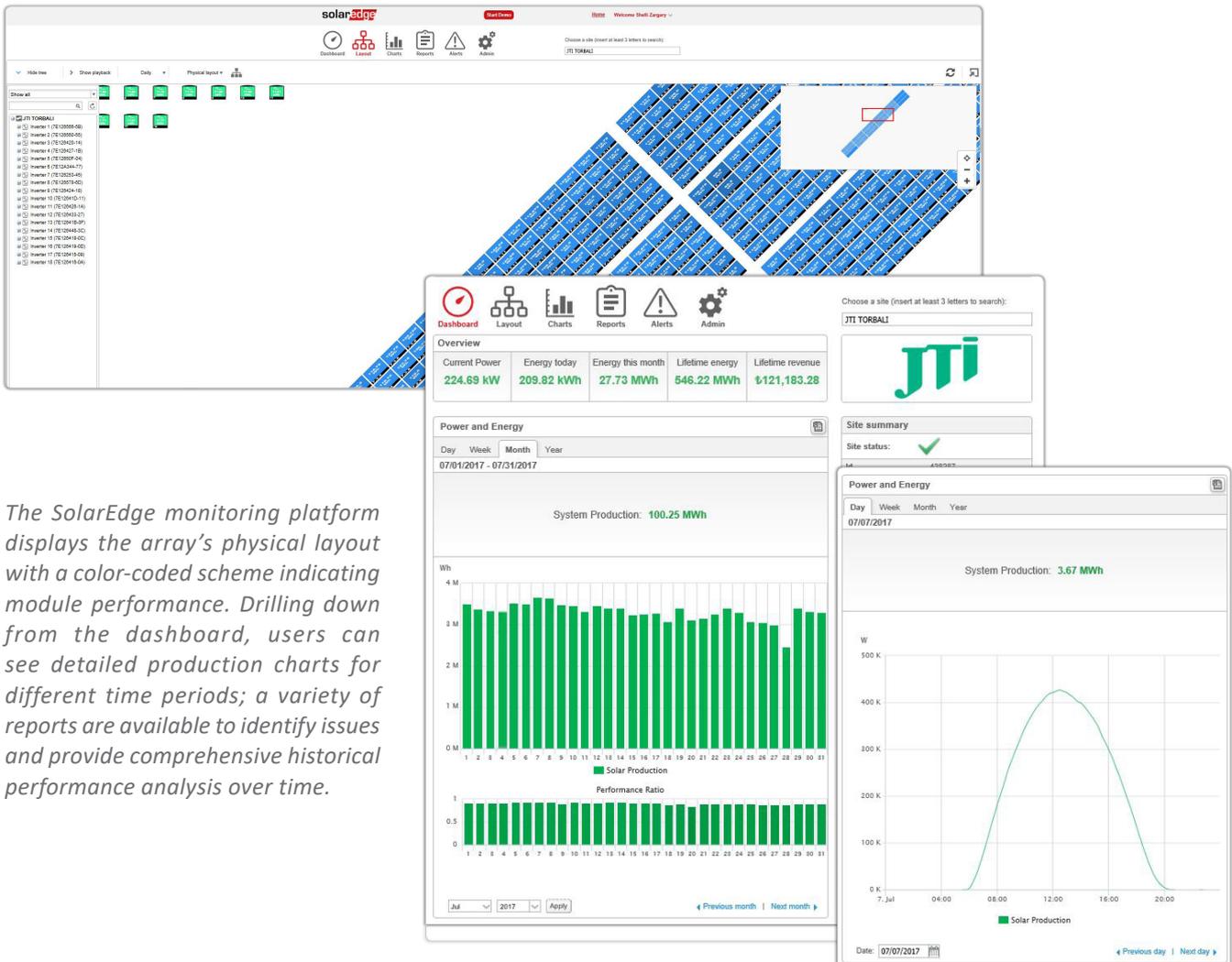
Design issues further reinforced JTI's decision when they discovered that in comparison to a traditional string inverter design, the SolarEdge system design reduced the number of strings from 92 to 54, requiring 4500m² less DC cable and enabling a savings of some €3,175.

Since entering the production phase, the SolarEdge solution harvests maximum power from the PV array, reducing the facility's dependence on electricity from the grid and maximizing ROI.

Comparison of Simulated vs. Actual Energy Production

Month	PVsyst Simulation with SolarGIS Data (kWh)	Actual Production (kWh)	Difference
June 2017	91,103	93,050	2%
July 2017	99,291	100,254	1%
August 2017	87,585	91,355	4%
September 2017	74,564	75,615	1%
October 2017	59,150	60,622	2%
November 2017	40,296	40,195	0%
December 2017	28,768	30,119	5%
January 2018	31,106	35,773	15%
February 2018	33,134	31,797	-4%
March 2018	55,091	55,546	1%
April 2018	70,924	76,867	8%
May 2018	84,559	87,250	3%
Total	755,571	778,443	3%

We decided to go solar not only to demonstrate our commitment to renewable energy, but also to make a sound investment for the future. Partnering with SolarEdge, a solar company focused on safety, innovation, and maximum energy yield, with exceptional post-sales service, has already proven to be the right decision for protecting our investment.
 Irfan Cinar, Electrical & Energy Associate Engineering, JTI Izmir



The SolarEdge monitoring platform displays the array's physical layout with a color-coded scheme indicating module performance. Drilling down from the dashboard, users can see detailed production charts for different time periods; a variety of reports are available to identify issues and provide comprehensive historical performance analysis over time.