

Case study

Grid Independent Gas Station

Rabat

Morocco



The challenge

A very unstable electricity grid causes blackouts from time to time. Issued to that the pumps of the gas station stop working and the main business is interrupted.



SUNSILO

The challenge was to have a real backup system that keeps the gas station in operation in any given case. Together with our partner JONSOL, exclusive partner of the brand SUN SILO in Morocco, we were able to master the task.

Why STUDER

As the system is installed in a hot and dusty environment, reliability of the equipment was critically important. Studer's robustness and performance in harsh climates appealed to the user and by registering the system installation, he can also access the Studer 10-year warranty.

The Solution

Combining the Jonsol PV-Rooftop-System (2x20kWp AC /19.2kWp DC/64xJSM-60 300Wp) with SUNSILO. A smart storage system that has a super-short reaction time of less than 15 milli-seconds in case of irregularities or power shortages from the grid.

System components

The system contains the following components:

- 64 x PV-Modules: Jonsol JSM-60 300Wp
- 1 x Storage System: 25kWh SUN SILO
- 3 x Inverter: Studer XTH 8000-48
- 3 x Charge Controller: Studer VS-120
- 1 x Remote Control: Studer RCC-03
- 1 x Communication Set: Studer Xcom-LAN

Project outcome

Together we offer efficient solutions wherever the connection to a power grid is associated with high costs or diesel power generators are expensive transitional solutions. With SUNSILO and Jonsol photovoltaic moduls, you benefit from the solar power plant regardless of infrastructural restrictions and bring the power exactly where it is needed.

Above all, one of the decisive factors for our product portfolio is: highest standards. The German quality concept is therefore selection criterion and at the same time guarantee for the longevity of our products.

Movie

<https://www.youtube.com/watch?v=JBZ3ChnERPs>

The Company

ProRe GmbH & Co KG (www.sunsilo.de) produces the unique SUNSILO storage system which is a complete lithium storage system including charge controller and inverter.

Jonsol GmbH (www.jonsol.com) is a young German company specialized in the production of solar modules and PV system components, that provides high quality products with all necessary certifications by an international team of experts.



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