

Case study

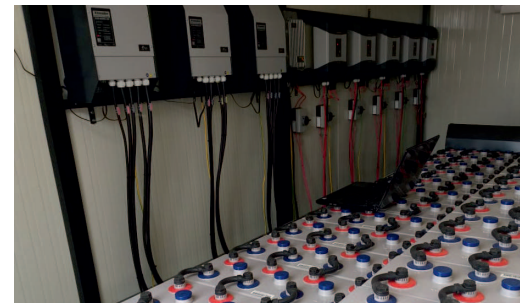
Off-grid system

Jordan border



The challenge

Far away from the grid in the Jordanian military barracks, Al-Ruwashid, Al-Hadalat to Ruqban, Jordan border. The transmission line for the national grid is far away, an off grid solar system was the answer for powering Jordanian military barracks.



MTSC

Why STUDER

The VarioString high-voltage MPPT solar charge controller that provides balance of system advantages not available from any other suppliers. The Xtender inverter/charger with a surge capacity that can handle three times its nominal power which is a great benefit in systems that have to cope with the start-up of large water pumps. No other device on the market has this kind of capacity.

System components

The systems contain the following components:

- 27x Studer XTH 6000-48
- BAE 17 PVV 3230
- BAE 24 PVV 4560
- 51x Studer VarioString VS-120
- 8x Studer VarioString VS-70
- Ground Mount solar

The Solution

As Jordan has 320 days of sunshine per year, the IOM choose solar energy for their new backup system for Jordanian military barracks. The system consists of two parts. The first part consists of eight towers, each with a 35.15 kWp PV array, 3 XTH 6000-48, 5 VS-120, 1 VS-70 and a 3182Ah@C72 battery bank. The second part consists of one tower with a 75.26 kWp PV array, 3 XTH 6000-48, 11 VS-120 and a 3182Ah @C72 battery bank.

Project outcome

Jordanian military barracks enjoy access to energy through a stand-alone system that provides them with power whenever they need it.

The new backup system ensures the availability of power during working hours or during any time.

The Company

Shweikh Establishment for Contracting one of the leading company in electromechanical Contracting field especially in solar plant field in Jordan, Shweikh Establishment for Contracting installed more than 350MWp as on grid system and 1.5MWp as off grid system.

For more information please contact:

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