



A private residence in Lahore needed to combat the load-shedding faced by the country, they wanted to be able to have continuous power 24 / 7 without the need of the public grid.

The solution was simple. A 10kWp PV array with a 9.9kW backup system to ensure that all the energy needed in the day is provided by the Solar PV system.

The system provides enough energy to run 3 split type Air-conditioners, all the lighting, 6 fans, 3 refrigerators, 4 LCD flat panels, CCTV & security system. Gaming consoles, DVD players and all the kitchen appliances at the same time. While the system can provide a backup of up to 4 Hours in case of grid failure.

The intelligent battery management capability of the system can provide trouble free operation of the batteries for up to 3 years and require minimal or no maintenance.

The Project

Commencement:

April 2014

Completion:

May 2014

Loads:

10kWp Generation
9kW Connected

Scope of Work

AC Coupled Hybrid with Battery Backup

Products Used

REC Solar Panels

40 x REC260 Peak Energy Series Solar Panels

SMA Inverters

2 x SB 5000TL-21 Solar Inverters

2 x SI8.0H Sunny Island Backup Inverters

16 x 12V 200AH AGM Batteries