



The largest private sector university in Pakistan chose us to provide them with the solution for the growing demand of energy at their main campus in Lahore Pakistan.

The university wanted to offset 1.2MW of their grid connected load onto solar PV system, but also wanted to have continuous power even the case of grid failure without employing any backup inverters and batteries.

The solution was the new FUEL SAVE CONTROLLER based solar PV system which allows the integration of a solar PV system to be connected with the diesel generator array so that continuous solar PV power is available in conjunction with the generators.

This will allow the university not only to offset their energy usage from the grid but also allow them to save up to 40% of their annual diesel consumption.

The first phase of the project is expected to be completed in June 2014 and shall be fully completed by Feb 2015.

The payback calculation of the project is just about 4 years, which is an ROI of approx 25%.

**THIS IS THE FIRST OF ITS KIND PROJECT IN PAKISTAN AND THE 5TH OF ITS KIND IN THE WORLD.**

#### The Project

**Commencement:**

November 2013

**Completion:**

In Progress expected completion Phase-1 June 2014

**Loads:**

1.2 MWp Generation  
3.5 MW Connected

#### Scope of Works

AC Coupled Hybrid Fuel save Diesel Generator integrated Solar Power System

#### Products Used

##### REC Solar Panels

3680 x REC260 Peak Energy series Solar Panels

##### SMA Inverters

40 x STP 20000TLEE Solar Inverters  
SMA Fuel save controller for Genset integration