

Monitoring System for a 39kWp Rooftop Solar Installation

Abstract

A 39kWp grid-tied Solar PV system was installed on the rooftop of the TCTC Substation at the Chennai premises of Larsen & Toubro (L&T). The performance monitoring system for the installation is provided by iPLON. The system is supported by iPLON's latest in-house innovation soiling loss system.

Partners : Larsen & Toubro, iPLON

Outline

Total Power	39kWp (DC)
PV Modules Manufacturer	HHV Solar
Panel Type	Crystallin Silicon
Panel Count	160
Module Wattage	240Wp
Inverter Type	KACO
Energymeter Manufacturer	ICD

iPLON did three concepts on the TCTC Substation rooftop.

- Soiling Loss System:

The soiling loss system helps in monitoring the loss in yield due to settling of dust on the module between cleaning cycles. It employs 1 current sensor unit and 1 iBOX premium.

- Weather station monitoring :

Weather station monitoring is performed using 1 iBOX Premium and an irradiation sensor.

- Inverter and Energy meter monitoring:

Monitoring of the KACO Inverter and ICD energymeter is performed using 1 iBOX Standard.

The system has been completely commissioned and iPLON Germany is now working on the portal developments.



Important Notes

18/10/12 Version 1.0 Subject to alterations

