

AIRPORT MACTAN CEBU, PH

/ Solenergy Systems Inc. designs and constructs the first solar-powered airport in the Philippines



/ Mactan-Cebu International Airport is a major transport hub in the south for both domestic and international traffic. Its traffic is continually increasing and is now serving 850 commercial flights weekly transporting 13,049 passengers daily.

/ More than 6,300 PV modules are installed at the roof of the airport. The solar grid-tied system is expected to generate 2,169,900 kWh of energy per year that will offset a considerable amount of the daytime load peaks for the 2nd busiest airport in the Philippines. The 1.64 MWp PV-system is also calculated to save 1,301,580 kg of CO₂ each year.

/ The system comprises 65 Fronius Symo 3-phase inverters, offering real-time online system monitoring and added safety functionality, such as arc and ground fault protection. The racking system was custom designed by Solenergy, with a cast in place ballast solution offering resistance to elevated wind speeds that are often experienced in the Visayas region. Solenergy also supplied a bespoke curtailment solution to enable the client to operate the PV system in parallel with their gensets, in case of brown out.



INSTALLATION DATA	
Size of installation	1.64 MWp
Purpose, system type	Roof mounted, self-consumption
Module type and area	Risen Energy 265W on 1.01 hectares
Inverter	51 Fronius Symo 24.0-3-M; 14 Fronius Symo 15.0-3-M
Commissioned	August 2017
CO ₂ saved per year	1,301,580 kg
Annual yield	2,169,900 kWh