

COOL CLASSROOMS IN CARIBBEAN TEMPERATURES

Polytechnic university uses solar energy to power air conditioning systems

Cancun, Mexico: A city in the north of Quintana Roo that is known the world over for its beautiful beaches and whose inhabitants still exhibit the warmth of their Mayan ancestors to this day. A civilisation that has succeeded in bringing together art, architecture, mathematics, astronomy and ecology in harmony with their environment.

The company Invierte Solar is following in the footsteps of its forefathers and drawing on the huge potential of the sun by installing PV systems. One example is the “Universidad Politécnica de Quintana Roo”. This region has a tropical climate, making air conditioning systems essential in the classrooms. These air conditioners consume a large amount of energy throughout the year, some of which is now being supplied by the 75-kWp photovoltaic system with 5 Fronius Symo inverters.

This is just the pilot project for the first building, which already covers 25% of the energy requirements and saves 51.7 tonnes of CO₂ per year. As a result of the energy savings achieved, the project has been extended to the rest of the university.



SYSTEM DATA	CANCUN, MEXICO
Size of installation	75.6 kWp
System type	Roof-top installation
Inverter	5 Fronius Symo 15.0-3-208
Commissioned	December 2017
Annual yield	129,274 kWh
CO2 savings / year	51.7 t