



**ENVIROMENA**  
POWER SYSTEMS

## Photovoltaic Parking Shade Structure

ADDC Headquarters, Abu Dhabi

### Sustainable energy for Abu Dhabi Distribution Company



#### AT A GLANCE

- Unique design incorporates solar power into the building's architecture
- Highly visible display for ADDC's commitment to sustainability
- Protects cars from the sun while producing carbon free energy
- One of Abu Dhabi's pilot solar rooftop installations led by Masdar and ADWEA

SMART CLEAN ENERGY



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# Photovoltaic Parking Shade Structure

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This project is a clear example of the Abu Dhabi Government's commitment and support towards developing solar power systems for a sustainable future.

The project features a photovoltaic system installed on the rooftop of the Abu Dhabi Distribution Company's headquarter parking building. Enviromena installed the system by making minor modifications to the existing structure in order to retrofit solar panels to the building's carpark.

The solar system functions as an aesthetically pleasing shade which protects the parked cars by capturing energy from the sun and converts it

into clean electricity, thereby reducing the build up of heat at the carpark.

The parking building sits in the heart of the city of Abu Dhabi, visible spreading awareness to the neighbouring buildings. The energy generated is partially offsets the building's peak energy demands and CO<sub>2</sub> emissions.

*Top right* Wires from the solar panels are concealed in the frame for aesthetics (1)  
*Bottom left* Different views of the multipurpose parking shade structure at ADDC (2) (3)



1

## FEATURES

- Photovoltaic modules installed on the existing parking shade structure covering 900 m<sup>2</sup>
- Solar panels function offer shade to cars while generating clean energy
- Power is fed into the ADDC building for immediate use
- Offsets the building's energy demands at peak hours



2



3

## Technical specifications

Type of modules	Suntech poly crystalline 280 Wp
Number of modules	462
Type of inverters	SMA STP 17000TL, SMA SB 1700
Power capacity	129 kWp
Energy produced	231 MWh per year
Life span	25 year+
Project time frame	13 weeks from project award to completion
CO <sub>2</sub> emissions saved p.a.	Approximately 205 T
Number of parking spots	52

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