

Shams Tower Solar Project

Yas Marina Circuit, Abu Dhabi



ENVIROMENA
POWER SYSTEMS

*Taking the
Formula 1™ Track Green*

AT A GLANCE

- Highly visible statement of environmental commitment
- Innovative utilization of otherwise unused space and natural resources
- Offsets some of the building's power
- Iconic installation on the site of the Yas Marina Circuit, Abu Dhabi



Smart Clean Energy



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POWER SYSTEMS

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As the region's premier solar developer, Enviromena has designed turnkey solar solutions for many of the region's iconic buildings and projects.

Enviromena, along with the region's largest property developer ALDAR and Abu Dhabi Motorsports Management are "taking the track green", installing a customized building integrated photovoltaic system at the Yas Marina

Circuit, venue for the 2009 Formula 1™ *Etihad Airways Abu Dhabi Grand Prix*.

The panels have been mounted to the "wings" of the Shams Tower, a VIP hospitality building rising 60 meters from the track. The wing like structure will provide shade for the cars parked underneath, while using the sun to provide some of the energy required on Yas Island.

Bottom Solar modules form the roof assembly of this shade structure (1). Solar wiring and mounting hardware are carefully integrated and hidden within the supporting structure (2) to ensure a clean, visually appealing installation (1, 3).

FEATURES

- Flat mounted array of 2,500 m²
- Panel installation was completed in unison with other building works maximizing resources and minimizing time delays
- Connection to the Abu Dhabi Municipal grid ensures all produced solar power is utilized



1



2



3

Technical Specifications

Type of modules	Suntech poly crystalline
Number of modules	1,120
Type of inverters	SMA Sunny Mini Central
Power capacity	291 kWp
Energy produced	450 MWh/year
Life span	25 years +
Project time frame	16 weeks from project award to completion
CO ₂ emissions saved p.a.	Approximately 400 T

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