



**ENVIROMENA**  
POWER SYSTEMS

## 10 MW Solar Power Plant

Masdar City, Abu Dhabi

### *Middle East's Largest Grid Connected Solar Farm*

#### AT A GLANCE

- First grid connected system in the UAE, providing green energy to the municipal grid
- Sun-drenched climate of the Middle East is ideal for solar power
- Custom designed maintenance program to ensure optimum performance of the system
- Unique design is aesthetically pleasing and incorporated into the city's overall architecture
- Best-of-breed technology and leading international suppliers teamed with local contractors and expertise
- One of the first projects to be completed in Masdar City



**Smart Clean Energy**



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Enviromena's 10MW Solar Power Plant, built as part of the first phase of Masdar City, forms the largest grid connected solar plant in the Middle East. The system was designed by Enviromena's world class team of solar engineers to maximize the full potential of Abu Dhabi's sun-rich climate, with the installation monitored by Enviromena's on-site project managers.

The plant will generate clean electricity, initially to support the ongoing construction activities of Masdar City and will later be a power provider for the Masdar Institute of Science and Technology. Enviromena's partnerships with leading international suppliers and reliable, experienced local contractors ensured the project was successfully completed on time and within budget.

*"This 10MW plant signals a bold step forward in the drive to increase the adoption of alternative energy in the region. It provides the foundation on which the construction of Masdar City will be built, and demonstrates the viability and attractiveness for further PV plants to be built within the region."*  
—Dr. Sultan Al Jaber, CEO of Masdar.

## FEATURES

- Combination of poly crystalline silicon and thin film modules
- Remote online-monitoring system enables energy production levels to be easily checked
- Carbon emissions saved are equivalent of 11,000\* passengers flying from Abu Dhabi to London

\* Please note figures are approximations only



## Technical Specifications

Type of modules	50 % First Solar thin film 50 % Suntech poly crystalline
Number of modules	87,777
Type of inverters	SMA SC 560
Power capacity	10MWp
Energy produced	17,500MWh/year
Life span	25 years+
Project time frame	8 months from project award to operation
CO <sub>2</sub> emissions saved p.a.	Approximately 15,000 T

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