



#### PROJECT OVERVIEW

**Location:** Abu Dhabi, United Arab Emirates

**Completed:** March 2009

**Owners:** Masdar

**Project Designer and Developer:**  
Enviromena Power Systems

**System Size:** 5 MW

**Number of Panels:** 18,288

**Product:** Suntech 270 W Polycrystalline Module

**Energy Saved:** 8,500,000 kWh annually

#### BENEFITS

- The plant will save 7,500 tonnes of carbon emissions a year, the equivalent to that produced by flying 5,500 passengers from Abu Dhabi to London.
- Carbon savings equivalent to taking over 2,000 cars off the road.
- Will supply power to more than 700 Abu Dhabi residents in addition to over 2,400 in Masdar City.
- Can power 333,000 energy-saving or 83,000 regular light bulbs.

“When choosing partners like Suntech, we ensure that clients are provided with high quality, low maintenance clean energy solutions to their power needs and we are excited to see this technology implemented on a wider scale.”

*Sami Khoreiby*

Enviromena CEO & President

## Suntech Solar Panels Power the Largest PV Solar Project in the Middle East

### The Goal: To Power the World's First and Only Carbon Neutral City

Masdar City is a revolutionary concept that will greatly influence the future of global urban development. The city will be home to 50,000 people and 1,500 businesses, and will be the world's first environment-friendly zero waste city powered entirely by renewable energy. The plan incorporates century-old Arabic urban planning with the latest technological advances to create a high quality living environment for all residents. Solar energy systems are the ideal solution for Masdar City as electricity generated will coincide with peak energy usage during the middle of the day. In addition to clean power generation, innovative energy efficient technologies will be used including electric travel pods, waste and water recycling, natural ventilation and shading. The initial function of Suntech's 5 MW plant will be to power the construction of Masdar City itself, and is the foundation of future phases of solar power generation.



## Suntech Crystalline Modules Selected Over Competitors

Masdar invited over 30 different PV technologies to install in their test field in 2008, including Suntech's high efficiency modules. All of the modules were subjected to stringent testing standards. Suntech crystalline modules delivered consistent, high quality output and low maintenance that



Suntech was founded on a passion for solar energy and its power to transform the way we live. Our dreams for tomorrow are BIG and our company has grown exponentially to realize our aspirations for a greener tomorrow.

Today we stand on the cusp of a revolution that will change the way the world generates electricity, and at Suntech we are working hard to introduce tomorrow's technology to the world today!

This is Suntech. We believe in the power of solar energy. It is what we do. ***It is all that we do!***

were ideal for Masdar's power needs in the adverse desert conditions.

## Forging Ahead With Industry-Leading Technology

During the launch of the project in Abu Dhabi in January 2009, Dr. Martin Green of the University of New South Wales was awarded the finalist prize from the first ever Zayed Future Energy Prize awarded in Abu Dhabi. Dr. Green continues to be recognized for his groundbreaking research in PV technology that is resulting in increased efficiencies, bringing solar energy closer to grid parity. Suntech's Pluto technology, a direct descendant of Dr. Green's world record holding PERL cell, will continue to power Masdar City's energy needs in the future.