

Project Leaflet

# 710 kWp solar PV grid-connected system at the AgriZone of the Dube TradePort.



In keeping with its vision to reduce the energy and electricity costs, carbon footprint and environmental impact of the development at the Dube TradePort, the Dube TradePort Corporation awarded the contract to Sustainable Power Solutions<sup>TM</sup> to design, supply and install a 630 kWp solar PV system on the roof of the pack-houses at the AgriZone.

The project will be completed in two phases. The first phase involved the installation of a 218 kWp system on the roof of one of the cold storage facilities. It was commissioned in less than four weeks at the end of 2011 in time for the COP17 conference. Phase Two will see the installation of a 410 kWp system on the roof of a second warehouse.

This system will be the largest rooftop mounted PV system in southern Africa to date, and the first to be installed at an airport facility on the continent.

The complete system will generate approximately 824 MWh per year, reducing carbon emissions by 791 tons annually and by 20 000 tons over the lifetime of the project. The completed system will also lead to significant electricity costs savings for the AgriZone development.

The system is one of the first grid-connected solar PV systems that have been granted permission by the eThekweni municipality to connect to the municipal grid.



## DUBE TRADEPORT: 710 kWp FAST FACTS

| System size | Date commissioned     | Construction time | Annual generation                      |
|-------------|-----------------------|-------------------|--|
| 710 kWp     | 23 Nov 2011 (Phase 1) | 4 weeks (Phase 1) | 285 MWh (Phase 1)<br>539 MWh (Phase 2) |