

**PROJECT CASE STUDY**  
**68kW<sub>p</sub> SOLAR PV PROJECT, PRUDENTIAL, CAPE TOWN**



<b>COMMERCIAL PROJECT NAME:</b>	Prudential 68kW <sub>p</sub> Solar PV Project
<b>COMPLETION DATE:</b>	December 2016
<b>COUNTRY:</b>	South Africa
<b>SCOPE OF WORKS/SERVICES:</b>	Engineering, procurement and construction of both the DC & AC side of the system, including: mounting system, supply of PV modules and invertors, installation of all equipment, and system commissioning.
<b>CLIENT AND SITE LOCATION:</b>	Prudential, Protea Place, Claremont, Cape Town
<b>GPS COORDINATES:</b>	Latitude: 33°58'40.80"S Longitude: 18°27'50.50"E
<b>SYSTEM SIZE:</b>	68kW (peak)
<b>GROUND OR ROOF-MOUNTED?</b>	Roof-mounted
<b>GRID-TIED OR STAND-ALONE?</b>	Grid-tied
<b>IPP OR OWN-USE:</b>	Own-use
<b>INVERTER:</b>	ABB TRIO 20 S2X400 (String) x 3
<b>PV MODULES:</b>	Solar Frontier SF170-s Thin Film 170W <sub>p</sub> x 396
<b>MODULE ORIENTATION:</b>	North (0 degrees)
<b>MODULE INCLINATION:</b>	25 degrees
<b>ROOF TYPE:</b>	Flat concrete
<b>RACKING SYSTEM:</b>	Romano concrete tilt ballast system
<b>ESTIMATED AC POWER YIELD (FIRST YEAR):</b>	135 805 kWh per annum
<b>SPECIFIC ANNUAL YIELD (FIRST YEAR):</b>	2017 kWh/kW <sub>p</sub>