



Maerua Lifestyle Shopping Centre

Windhoek, Namibia

HopSol

Solar Power Plants

Dr. Robert Hopperdietzel, Director HopSol Africa (Pty) Ltd: "HopSol has specialized in photovoltaic solutions for deserts and desert-like regions. Due to the extreme climatic conditions in these regions, the selection of the right technology is of vital importance. We are convinced that CIS/CIGS technology is the best choice, supported by the outstanding results of our systems in these regions."

499.96 kWp
System capacity

1,008 MWh/yr
Expected output

568 tons
CO₂ reduction / year

3,448
Installed panels

tsmc solar

New Power.
New Thinking.

Maerua Lifestyle Shopping Centre

Windhoek, Namibia

The Maerua Lifestyle Shopping Centre in Windhoek, Namibia is the main shopping centre for European and quality goods in Namibia. The Owners of the Lifestyle Centre decided to have a photovoltaic solar power installation on the roof of the complex since this investment will make the Centre less dependent on the rising electricity costs of the country and at the same time it will mark a new era in the green energy sector of Namibia.

The grid-connected solar power plant on Maerua Lifestyle Centre with its 500 kWp is the biggest of its kind in whole Namibia so far.

This photovoltaic solar power installation is set up to produce 1.008.000 kWh per year and provide solar energy to the Shopping Centre as part of the overall electricity usage. This equals the electricity consumption of about 150 Namibian households. At the same time it will save thousands of tons of Carbon emissions. The management of Maerua Lifestyle Centre is convinced of the results and the characteristics of CIS/CIGS technology and therefore it invested in this milestone of the Namibian green energy sector.

Namibia has one of the highest solar irradiation levels in the world. At the same time, high temperatures combined with below-zero nighttime temperatures, sand abrasion and wind storms challenge the solar modules to an extreme extent. The right technology is essential in order to withstand these conditions and still deliver excellent performance. According to HopSol's tests CIS/CIGS technology is the best choice.

Amazing aesthetics in combination with the top innovative character of this solution attract the attention of even more customers for the Maerua Lifestyle Shopping Centre." Said one of the Members of the Board.



Installation

Location	Windhoek/Namibia
Coordinates	Lat -22,584985 Long 17,091510
Average global irradiance	2362.9 kWh/m ²
Average temperature	19.9°C
Average rainfall	360 - 400 mm

Technical Specifications

System capacity	499.96 kWp
Panel type	TS CIGS 145W
Quantity of installed panels	3,448
Total CO ₂ saved	568 tons per year
Inverters	30 x Sunny Tripower STP 17.000 TL-10
Date of inauguration	2/9/2013

About TSMC Solar

TSMC Solar Ltd. is a wholly-owned subsidiary of Taiwan Semiconductor Manufacturing, Inc. (NYSE: TSM), the acknowledged semiconductor dedicated foundry segment leader with market capitalization exceeding \$90 billion. TSMC's solar business was founded in May 2009 and is headquartered in Taichung, Taiwan, with regional sales offices in Hamburg, Germany; San Jose, California and Boston, Massachusetts. Visit us at www.tsmc-solar.com!

About HopSol

HopSol provides turn-key solutions for photovoltaic solar power plants. HopSol's head office is located in Wilen, Switzerland and the headquarter for the southern African region, HopSol Africa (Pty) Ltd, has been established in Windhoek, Namibia. HopSol has specialized in photovoltaic solutions for deserts and desert-like regions and acts as a wholesaler of all relevant parts for photovoltaic solar power solutions. Due to the specific climatic conditions in desert regions the selection of the right technology is decisive in order to ensure an outstanding economic performance of investments in solar power plants. Therefore HopSol trusts in superior quality CIS/CIGS-modules as one crucial success factor. For further information please visit www.hopsol.com.