

PRESS RELEASE

NEW INNOVATIVE PV SOLAR MODULES TO IMPROVE OVERALL EFFICIENCY OF SOLAR ENERGY IN SA

28. October 2014: South Africa has become one of the top up and coming destinations for renewable energy investment as it holds tremendous potential to rapidly grow its energy markets. This is according to Arthur Chien, VP of Talesun Energy, who says that economic expansion, the rapid pace of urbanisation, electricity and water scarcity, rising coal prices and the need to reduce carbon emissions, are the key factors driving the adoption of renewables such as photovoltaic (PV) solar in the country.

Moreover, he says that developments such as the REIPPP (renewable energy independent power producer procurement programme) model will stimulate investment in the country's renewable energy sector, providing it with a competitive structure and new growth prospects.

“The early development stage at which South Africa's renewable energy sector is currently at will stand investors in good stead as they will be able to invest in the latest most up-to-date efficiently developed infrastructure that is of the highest quality yet.”

Chien says that the latest developments in PV solar technology include the Smart Module and the Zero Potential Induced Degradation (PID) Module. “Compared to conventional modules, Smart and PID modules will offer users a more efficient and safer way of effectively utilising the power of the sun, thereby improving the overall efficiency of solar energy in South Africa.”

Chien advises that in order to deliver the highest quality and efficient products to investors, it is important to stay ahead of technological advances. “Talesun are excited to bring quality international PV standards through the new PV product innovations to South Africa, which will shape and impact the PV market in the country by bringing more efficiency.”

He explains that Smart Modules contain a built-in chip which transmits information about the operating condition of modules directly to a monitoring system, which allows for immediate analysis. “The modules are able to monitor the conditions of power plants in real time on computers or smart phones. Potential defects and corresponding reductions in output can be identified earlier and be rectified quicker.”

He further explains that the Zero Potential Induced Degradation (PID) Module is a new photovoltaic module which exhibits no degradation. He adds that degradation can occur through the mobility of sodium ions under high voltage, through polarisation of the surface of the module and through corrosion. “Over the long-term, PID endangers the electricity production, causing losses in output of up to 70 percent. The



Zero PID Module from Talesun uses the latest developed material to encapsulate and thereby prevent the PID effect," he concludes.

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About Talesun Energy

Talesun Energy, a subsidiary of global solar solutions company Zhongli Talesun Solar, consistently produces industry-leading quality, crystalline photovoltaic modules manufactured in one of the world's largest, fully automated production facility (2,260,000 square feet or the size of forty football fields). This systematic production process provides Talesun customers with front-runner price-performance ratios. Supporting its partners in the solar value chain, Talesun Energy also offers project development services, engineering support and financing. As an advancing solar leader, Talesun is dedicated to delivering exceptional sales support and customer service in Europe, the United States, Africa, South America, Japan, Australia and China. Zhongli Talesun Solar is a subsidiary of Zhongli Sci-Tech Group Co., Ltd., an international market leader in special cables, optical fiber cables and photovoltaic product manufacturing. For more information please visit www.talesunenergy.com

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