

FOR IMMEDIATE RELEASE:

TVP Solar worldwide premiere of MT-Power panel at EFEF 2011 (booth D24)

Geneva, Switzerland - 10/10/2011:

TVP Solar SA presents its first product, the MT-Power solar thermal panel, at the opening day of the European Future Energy Forum 2011 in Geneva, Switzerland.

MT-Power is a revolutionary high-vacuum solar thermal panel acting as an ideal energy source for commercial and industrial applications requiring either cooling or industrial process heat between 100°C to 200°C.

This first *Thermal Vacuum Power Charged™* panel has unrivalled peak performance, with a solar-to-cooling efficiency up to 75% using double stage absorption chillers. This is thanks to high vacuum insulation, which provides complete suppression of convection losses.

“With MT-Power, TVP Solar primarily targets air-conditioning applications for large commercial surfaces like data-centers, shopping malls and office buildings,” said Piero Abbate, CEO. “Hybridizing gas-driven chillers with solar thermal, we can supply cooling on a 24/7 basis – substituting electricity while significantly saving on carbon emissions.” In high irradiance countries with high cost of electricity (e.g India, Brazil, California), MT-Power’s solar field payback is in less than 6 years, without incentives!

“MT-Power panels measured an unrivalled 60% peak solar-to-thermal energy conversion efficiency operating @180°C,” according to Dr. Vittorio Palmieri, CTO, “but what impresses more is the consistency of the energy output throughout the day, every day, due to diffuse light capturing; each panel produces about 4kWh/m² per day in the summer. Even without cleaning, sand and dust do not affect performance more than a few percent.” TVP Solar has shown preliminary results of an on-going test campaign of MT-Power panels at ADEREE (the Agency for Renewable Energy and Energy Efficiency of the Kingdom of Morocco), in Marrakesh.

MT-Power has an aperture area of about 1m², a slim, lightweight profile, a corrosion-proof all-metal casing, is made of 100% recyclable materials, and reaches a stagnation temperature of 325°C without any concentration.

Besides outstanding efficiency under any irradiance, the low cost profile of MT-Power panels is a key driver in dramatically reducing the price of solar thermal energy. Easy integration and zero maintenance further contribute to the economics of any MT-Power panel solar field in real operating conditions.

TVP Solar operates a pre-series manufacturing line producing MT-Power panels since July 2011. Its current goal is to serve global field installations in 2012, primarily for solar-cooling applications.

TVP Solar

TVP Solar SA is a Swiss company which designs, develops, manufactures and markets innovative, high-vacuum flat solar thermal panels based on a proprietary technology for cooling and heating applications.

Thermal Vacuum Power Charged™ technology is the foundation for the high-vacuum flat solar thermal panels, providing high efficiency, low cost and long durability.

Using a patented, inorganic and flexible glass-to-metal seal, TVP Charged™ combines the advantages of a traditional planar layout (e.g. minimum dead space and diffuse light capturing) and complete suppression of convection losses due to high-vacuum insulation. Built with commonly available, inexpensive materials qualified for long-lasting vacuum products over the last 100 years (i.e. light bulbs and cathode ray tubes), the technology is specifically engineered for mass manufacturing.

TVP Charged™ panels harness the full power of solar thermal technology – providing unrivalled performance for any thermal application in any climate condition, without concentration.

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