



NEWS RELEASE

For Immediate Release

Moser Baer commissions a unique amorphous silicon Thin Film 'building integrated photovoltaic' technology led solar installation in Hyderabad

New Delhi, April 18, 2011: The **Engineering Procurement Construction (EPC)** arm of **Moser Baer Solar Limited** has commissioned a unique **building integrated photovoltaic (BIPV)** technology led solar application in

Hyderabad. BIPV technology provides unique opportunities to convert glass windows, front façades, exteriors and other building integrated applications into solar panels which will directly capture sunlight and convert them into power. Using this technology, the exterior façade on the front of the Jubilee Hills shopping complex at Hyderabad has been converted into solar panels to erect a 1.8 kWp solar application. These panels will generate electricity to

Highlights of the project:

- One of its kind BIPV installation in India;
- Amorphous silicon Thin film panels used to commission this application;
- The thin film modules were used in place of the regular glass;
- The additional cost was not significantly high;
- Commissioned in a quick time as no additional design modification to the building was required
- Will cater to the energy requirements to power the commercial mall

meet the power requirements in the corridors of the shopping complex. The commissioning of BIPV application in India heralds the arrival of this new age technology which would allow *commercial buildings to increase the use of renewable source energy in an aesthetic manner.*

Moser Baer has provided a complete turn-key solution including Design, Engineering, Procurement, Construction, Commissioning and Testing in successful commissioning of the project.



Lauding the application of BIPV technology in India, **K N Subramaniam, Chief Executive - PV Systems, MBSL**, said: "What is special about this application is its concept. The PV applications are no longer stand alone solar panels but could be a combination of Sun and structures that lead to opportunities to convert **windows, exteriors and other integrated applications into solar panels** in a commercially viable manner." He further added, "This 24 thin film module system is first of many such projects that will help in increasing the utilization of solar as a mainstream source of energy." He concluded by reiterating, "The growing energy demands, pollution concerns of the country, unviable fossil fuels based energy generation options and aggressive National Solar Mission goal of 20 GW by 2022 makes BIPV all but inevitable in India."

As per BCC Research, BIPV currently is a small but noticeable part of the world solar PV market. The global market was valued at **1,201 megawatts in 2010** and is expected to increase at a **56% compound annual growth rate (CAGR)** to reach a capacity of **11,392 megawatts in 2015**.

Editorial Notes:

What is BIPV

A Building Integrated Photovoltaics (BIPV) system consists of integrating photovoltaics modules into the building envelope, such as the roof or the façade. By simultaneously serving as building envelope material and power generator, BIPV systems can provide savings in materials and electricity costs, reduce use of fossil fuels and emission of ozone depleting gases, and add architectural interest to the building.

How it works:

In Building Integrated Photovoltaics (BIPV), the PV modules serve the dual function of building skin-replacing conventional building envelope materials and as a power generator. By avoiding the cost of conventional materials, the incremental cost of photovoltaics is reduced and its life-cycle cost is improved. Thus, BIPV systems often have lower overall costs than PV systems requiring separate, dedicated, mounting systems.

BIPV is a part of the PV industry but also due to its possible usage as building products, it should also be seen as part of the "Green Building" movement.



While the Green Building concept is firmly established in countries like Japan and Korea, it is rapidly gaining momentum in China, Taiwan, Singapore, and Malaysia, and the rest of the world.

About Moser Baer Solar Ltd.:

Moser Baer Solar Ltd. (MBSL) and Moser Baer Photovoltaic are subsidiaries of Moser Baer India Limited. These entities were launched between 2005 and 2007 to manufacture world-class solar modules and provide EPC solutions for effective deployment of PV Systems. The EPC arm of the MBSL has the distinction of successfully commissioned India's first 5 MW solar farm using thin film modules at Sivaganga, Tamil Nadu. Modules for crystalline silicon and amorphous silicon (thin film) are manufactured using premium quality materials and cutting edge technology for residential, commercial, industrial & custom applications for both on-grid and off-grid use. The PV Systems business has rapidly grown to a market leadership position in solar farms, roof-tops and off-grid applications in India. The business strategy is to straddle multiple technology platforms and to drive scale in a cost effective manner. The current production capacity is 90 MW of Crystalline Silicon Cells, 100 MW of Crystalline Silicon Modules, and 50 MW of Amorphous Silicon (Thin Film) Modules. The strong commitment to R&D and innovation has resulted in manufacturing of cutting edge PV cells and modules that meets the international standards including UL, IEC, ETL, CE. MBPV is the first ever solar company globally to be awarded the prestigious 5 Star rating by TÜV Rheinland for maintaining highest standards of quality.

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