



ECD Ovonic Subsidiary United Solar Ovonic Enters into Memorandum of Understanding for Joint Venture in Tianjin, China

Rochester Hills, Mich., Sept. 19, 2005 - Energy Conversion Devices, Inc. ([ECD Ovonic](#)) (NASDAQ: ENER) today announced that United Solar Ovonic, its wholly owned subsidiary, has entered into a Memorandum of Understanding with Tianjin Jinneng Investment Company (TJIC) to form a joint venture to establish a 25-megawatt (MW) thin-film triple-junction amorphous silicon photovoltaic module manufacturing operation in Tianjin, the People's Republic of China.

ECD Ovonic's Production Technology and Machine Building Division will build the manufacturing equipment for the joint venture. ECD Ovonic designed and built United Solar Ovonic's existing 25MW photovoltaic manufacturing equipment and is building the second facility, which will double United Solar Ovonic's U.S. manufacturing capacity.

"As part of our strategy to make our photovoltaic products more widely available throughout the world, we have been exploring opportunities in China," said James R. Metzger, executive vice president and chief operating officer of ECD Ovonic. "This announcement marks a significant step towards the realization of our strategy."

"Tianjin Jinneng Investment Company has an admirable track record of successful joint ventures in China and we are looking forward to working with them. The City of Tianjin, the third largest city in China, is the ideal site for our thin-film photovoltaic manufacturing plant," said Subhendu Guha, president and chief operating officer of United Solar Ovonic.

Details of the joint venture are subject to the negotiation of definitive agreements.

In addition to its existing 25MW photovoltaic manufacturing plant, United Solar Ovonic broke ground in July 2005 for its second state-of-the-art solar module manufacturing plant in Auburn Hills, Mich., to double its solar cell/module manufacturing capacity. Occupancy of the new facility is scheduled for May 2006, and it is anticipated that the plant will begin manufacturing products in the fall of 2006 following optimization of the manufacturing equipment.

Compared to conventional solar technology utilizing single crystal or polycrystal silicon, United Solar Ovonic's thin-film solar cells are 100 times thinner, do not use crystalline silicon material and, therefore, are unaffected by the scarcity of silicon worldwide. The products, unlike conventional glass-based PV products, are lightweight, flexible and rugged and can be aesthetically integrated into buildings.

About ECD Ovonic:

ECD Ovonic is the leader in the synthesis of new materials and the development of advanced production technology and innovative products. It has invented, pioneered and developed its proprietary, enabling technologies in the fields of energy and information leading to new products and production processes based on amorphous, disordered and related materials. ECD Ovonic's proprietary advanced information technologies include Ovonic phase-change electrical memory, Ovonic phase-change optical memory and the Ovonic Threshold Switch. The Company's portfolio of alternative energy solutions includes Ovonic thin-film amorphous solar cells, modules, panels and systems for generating solar electric power; Ovonic NiMH batteries; Ovonic hydride storage materials capable of storing hydrogen in the solid state for use as a feedstock for fuel cells or internal combustion engines or as an enhancement or replacement for any type of hydrocarbon fuel; and Ovonic fuel cell technology. ECD Ovonic designs and builds manufacturing machinery that incorporates its proprietary production processes, maintains ongoing research and development programs to continually improve its products and develops new applications for its technologies. ECD Ovonic holds the basic patents in its fields. More information on ECD Ovonic is available on www.ovonic.com.

About United Solar Ovonic:

United Solar Ovonic, building on technology invented and pioneered by ECD Ovonic, is the world leader in thin-film amorphous photovoltaics. Its existing 25-megawatt production equipment is the world's largest and most advanced machine for the manufacture of thin-film amorphous silicon alloy solar cells and related products used for a variety of applications ranging from large solar farms for utility-scale applications to charging batteries for solar lanterns. *UNI-SOLAR(R)* solar cells are lightweight, rugged and flexible, and are ideal as building-integrated photovoltaic roofing systems for residential and industrial customers. ECD Ovonic and United Solar Ovonic hold the basic patents covering the continuous roll-to-roll manufacturing of thin-film amorphous silicon alloy multi-junction solar cells and related products. More information on United Solar Ovonic can be found at www.uni-solar.com.

About Tianjing Jinneng Investment Company:

Tianjin Jinneng Investment Company (TJIC) is engaged in the investment and business management for power, thermal energy

and renewable energy. It has grown significantly in the last 10 years with its assets exceeding RMB 15 billion Yuans and has emerged as a China Fortune 500 company. With its focus on the energy sector, TJIC has 5 gigawatts of installed capacity catering to 81% of the electrical needs for the City of Tianjin, the third largest city in China after Beijing and Shanghai. It has been recognized as "the 100 super enterprises of Tianjin" in 2003 and 2004.

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This release may contain forward-looking statements within the meaning of the Safe Harbor Provisions of the Private Securities Litigation Reform Act of 1995. Such forward-looking statements are based on assumptions, which ECD Ovonic, as of the date of this release, believes to be reasonable and appropriate. ECD Ovonic cautions, however, that the actual facts and conditions that may exist in the future could vary materially from the assumed facts and conditions upon which such forward-looking statements are based.

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