Enphase Energy Introduces Solar Industry's First Micro-Inverter System

Energy Management System for Commercial and Residential Markets Marks Shift in the Solar Industry Landscape

PETALUMA, CA--(Marketwire - June 10, 2008) - Enphase Energy, Inc. today announced the general availability of the Enphase Energy Micro-inverter System. The heart of the system, the Enphase Micro-inverter, utilizes advanced technologies to maximize energy harvest and increase reliability of solar systems. In addition, the Enphase Micro-inverter turns each solar module into a "smart" module by connecting it to the Internet, thereby providing unprecedented visibility and analysis of solar system performance. Installers and owners of Enphase Micro-inverter Systems will benefit from dramatically simplified design, installation and management of their solar energy systems. As a result, this new approach can help accelerate the broad adoption of solar technology by increasing the return on investment of residential and commercial solar systems.

"The Enphase Energy team is proud to bring to the solar market the industry's first micro-inverter system. We have over 1,000 units deployed in the field and customers are seeing energy harvest increases of 5-25 percent and balance-of-system (BOS) savings of 13-15 percent compared to systems designed with traditional inverters," said Paul Nahi, President and CEO of Enphase Energy, Inc.

The Enphase system is comprised of the following three components:

Enphase Micro-inverter: This fully integrated device converts the DC output of a single solar module into grid-compliant AC power. The Enphase Micro-inverter maximizes energy harvest, increases system reliability, and simplifies design, installation and management of solar systems.

Enphase EMU (Energy Management Unit): This device allows solar performance data to be transmitted from the micro-inverters across a standard AC power line, eliminating the need for additional wiring, thereby keeping installation costs and complexity down.

Enphase Enlighten™: This web-based visualization and analytics tool provides production insight on a per-module basis. The system constantly monitors each module, automatically detects any shortfall in energy production, establishes a possible cause, suggests solutions and promptly alerts the owner of the issue.

"The Enphase Micro-inverter System truly is a revolutionary technology," said Michael Hall, President, Borrego Solar Systems. "We have been beta testing these new inverters at several residential sites, and the technology has performed extremely well. The Enphase team has taken a holistic approach to addressing a key area of improvement within the solar industry: energy harvest. We expect that the launch of the Enphase Micro-Inverter System will have a significant impact on both residential and commercial solar installations, and we look forward to working with them for years to come."

Solar Market Dynamics

According to Solarbuzz(1), a solar industry research and consulting firm, world solar photovoltaic (PV) market installations reached a record high of 2,826 megawatts (MW) in 2007, representing growth of 62% over the previous year. Industry research and development has focused largely on improving the cost and efficiency of solar modules. In contrast, Enphase Energy has concentrated on improving inverter technology and systems architecture that represent significant constraints on energy harvest and system reliability. In addition, unlike "bolt-on" third party monitoring software, the Enphase Enlighten web-based system provides, for the first time, integrated performance monitoring on a per-module basis.

"The Enphase system is an exciting confluence of solar energy and communications technologies providing unparalleled visibility into the performance of solar energy systems," said Roy Phillips, VP Commercial Development, Real Goods Solar, Inc.

The Enphase Micro-inverter System will have an impact on various industry stakeholders. Installers will benefit from the dramatically simplified design and installation. The reduced footprint of the micro-inverter appeals to residential customers concerned about aesthetics. Business owners are interested in increased reliability and visibility of their system. All customers will benefit from the opportunity for improved ROI based on increased energy production, increased reliability and balance-of-system savings.

"With the availability of the Enphase Energy Micro-inverter System, residential and commercial solar customers will be able to leverage the next generation of solar energy solutions to lower their energy costs," Jeffrey Owens, President, Owens Electric and Solar.

Product Reliability and Availability

Enphase Micro-inverters have an unprecedented mean time between failures (MTBF) of 119 years as shown in a study by Relex, an expert in reliability engineering and testing. The Enphase Micro-inverter has been certified for deployment in residential and commercial installations and is listed by CSA per UL 1741.

The Enphase Micro-inverter System can be purchased through leading solar equipment installers and distributors, including AEE Solar, DC Power Systems, Focused Energy, Solar Depot and SunWize.

About Enphase Energy

Enphase Energy provides solar energy management systems for residential and commercial customers. The company pioneered the industry's first networked solar energy system, which includes high-efficiency micro-inverters, communications gateways and web-based analytics and visualization. Founded in 2006 and based in Northern California, the company is led by veterans from the solar and high tech industries and backed by industry leaders. For more information, please visit www.enphaseenergy.com or call (707) 763-4784.

(1) Solarbuzz Marketbuzz 2008: Annual World Solar Photovoltaic Industry Report - http://www.solarbuzz.com/Marketbuzz2008-intro.htm