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Enphase Energy Introduces New Energy Management System to Accelerate Mainstream Solar Adoption

Groundbreaking system enables large-scale implementation of solar globally

LAS VEGAS--(BUSINESS WIRE)-- **Solar Power International 2014 - Booth 812** - Enphase Energy, Inc. (NASDAQ: ENPH), today announced the [Enphase Energy Management System](#), a groundbreaking system for energy management that delivers on the vision of enabling large-scale implementation of solar power integrated with the grid.

The Enphase system intelligently integrates the critical technologies needed to solve solar energy challenges at scale: smart grid intelligence, communications, big data analytics and storage. The energy management system offers the next-generation, smart-grid ready Enphase microinverter, plug-and-play storage, advanced control capabilities and load management. The new system has three distinct advantages: it provides a better return on investment for system owners, expands the range of profitable business models for installers, and provides broader insight into and control for utilities.

"Enphase is taking a fundamentally different approach to energy management," said Paul Nahi, Enphase CEO. "The solar industry is dominated by static, isolated systems that do not integrate, communicate, scale or adapt quickly to changes in power generation. Our energy management system is designed to accelerate mass penetration of solar globally and make mainstream access to clean, affordable energy a reality."

Benefits for Solar System Owners

Building on the company's track record of disruptive technology innovation, the Enphase Energy Management System is a leap forward in reliability, productivity, cost savings and total energy management. By making solar energy more affordable today and reliable for the future, Enphase is providing owners with more choice and control to optimize and manage their energy.

Benefits for Installers and Distributors

Solar installers and distributors are faced with a rapidly changing energy landscape. With the seamless integration of solar generation, storage, cloud-connected communications and load management on a unified, future-proof platform, installers and distributors can more easily manage the design, installation and management of solar arrays. This higher level of efficiency helps installers and distributors operate more profitably.

Benefits for Utility Companies

The Enphase Energy Management System provides utilities with a higher level of visibility, insight and control over the energy grid. The smart-grid ready system shares information, and in some cases control functions, with the utilities over the cloud. By making it easier for utilities to integrate and sustain solar energy on an optimized energy grid, Enphase systems help maximize their profits and their infrastructure.

The Enphase Energy Management System is comprised of four main components:

Generation

Generating solar energy that is smart-grid ready, with advanced grid functionality, enables maximum penetration of distributed solar on the grid. Designed to meet current and future requirements, the fully bidirectional, software-defined microinverter supports reactive power control and other advanced grid functionalities. Enphase S-Series Microinverters are the most advanced and easy-to-install smart grid-ready microinverters on the market.

Storage

Enphase AC Battery™ is an advanced energy storage solution with a modular, plug-and-play storage device fully integrated into the Enphase Energy Management System. Based on a distributed architecture, the AC Battery is a safe,

reliable and easy-to-install storage solution, designed for residential and commercial applications. The modular battery provides system owners with the ability to store solar energy for future or nighttime use, optimizing solar power consumption and giving owners greater energy independence. More details available in separate announcement, [click here](#).

Control

Enphase's new Envoy-S expands from energy monitoring into full revenue grade metering of solar production, metering of home consumption, and storage management. Ruggedly constructed and suitable for installation in outdoor enclosures, the Envoy-S offers a full range of networking connectivity options. In addition to Ethernet, integrated Wi-Fi not only allows for easy connection to broadband systems but also functions simultaneously as an access point for integration with Enphase's mobile application and other home automation solutions. An optional cellular modem completes the package; designed in collaboration with AT&T, the plug-and-play M2M data plan makes networking a snap.

Energy Management

Enphase's Enlighten software platform enables customers to monitor system performance from any PC tablet or smartphone. Enlighten also monitors and optimizes the use of all energy sources—solar, stored and grid—providing remote visibility and control to every installation. Enlighten alerts system owners to performance issues, proactively supports operations and maintenance activities for installers, and helps utilities optimize and manage the grid, revealing trends and opportunities.

The Enphase Energy Management System components will be available on a rolling basis beginning in the third quarter of 2015.

To learn more about the new Enphase Energy Management System and other innovations, visit Enphase Energy at Solar Power International (Booth 812) in Las Vegas, October 21-23, 2014 or visit www.enphase.com/whatsnext.

About Enphase Energy, Inc.

Enphase Energy delivers microinverter technology for the solar industry that increases energy production, simplifies design and installation, improves system uptime and reliability, reduces fire safety risk and provides a platform for intelligent energy management. Our semiconductor-based microinverter system converts energy at the individual solar module level and brings a systems-based, high technology approach to solar energy generation. Connect with Enphase on [Facebook](#) and follow us on [Twitter](#). www.enphase.com

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