Press Release

SMA America

AllEarth Renewables Completes the Largest Distributed Solar Tracker Farm in North America

SMA Sunny Boy Inverters Power 2.2 MW PV System in Vermont

ROCKLIN, Calif., July 27, 2011–AllEarth Renewables, Inc. has designed and installed the largest distributed solar tracker farm in North America. Located in South Burlington, Vt., the 2.2-megawatt PV system includes 382 AllSun Tracker Series 24 GPS-oriented, dual-axis trackers and 382 SMA Sunny Boy 6000-US inverters. The estimated 2.91 million annual kWh of power generated by the installation will be sold to Vermont's Sustainably Priced Energy Development (SPEED) Program.

2.2 MW Solar Tracker Farm in South Burlington, Vt.
Photo courtesy of AllEarth Renewables

The project will be officially commissioned using an iPhone, highlighting the trackers' wireless communication and GPS/dual-axis tracking, today. Vermont Gov. Peter Shumlin (D) and Lt. Gov. Phil Scott (R) are expected to attend the on-site commissioning ceremony.

AllEarth Renewables chose a decentralized inverter configuration for this 25-acre solar farm in order to achieve the greatest power generation from the trackers while allowing the company to use its AllSun Tracker Series 24 model without a system redesign. Through this innovative application, each inverter adjusts to the highest possible power output and efficiency of each tracker across the system. Utilizing distributed inverters helps prevent overall power losses that can arise when using a single centralized inverter, while also saving labor and DC wiring costs. Operation and maintenance expenditures are also expected to be reduced over the life of the system, increasing the overall value of the energy yield.

"The decentralized inverter concept is ideal for many commercial and utility-scale PV systems," said Jurgen Krehnke, president and general manager of SMA America. "The combination of AllSun Trackers and Sunny Boy inverters in this application will ensure that the solar farm is consistently performing at the highest level."

The UL-Certified Sunny Boy 6000-US inverter was selected for this project based on its proven durability, reliability and class-leading efficiencies of up to 97 percent. The

device's longevity is enhanced via SMA's patented OptiCool™ active temperature-management system and rugged cast-aluminum, outdoor-rated enclosure. Automatic grid-voltage detection and an integrated DC disconnect switch simplify installation, ensuring safety while saving time. The Sunny Boy 6000-US also features galvanic isolation and can be used with all types of modules—crystalline as well as thin-film. Sunny Boy inverters include a 10-year factory warranty, with the ability to extend up to 20 years.

The AllSun Tracker is a dual-axis, grid-connected solar electric system that follows the sun from dawn to dusk, producing up to 45 percent more electricity than a fixed, roof-mounted PV system of the same size. AllEarth Renewables' innovative pole-mounted trackers use GPS technology and wireless communications to enhance their performance beyond traditional tracking systems.

"Whether in backyard homes or a utility-scale project like this, our innovative technology produces more energy than fixed solar installations," said David Blittersdorf, CEO and founder of AllEarth Renewables. "Distributed inverters allowed us to achieve the highest possible power output across the 25-acre farm using our proven dual-axis tracker design."

The solar farm was created as part of Vermont's Standard Offer program with the generated power being sold to the SPEED program. The SPEED program encourages the development of renewable energy resources in Vermont, as well as the purchase of renewable power by the state's electric distribution utilities. The Standard Offer program, part of the Vermont Energy Act of 2009, was later enacted to encourage the development of SPEED resources using a variety of different renewable technologies. The Act established default prices for the standard offer for different technologies, calculated to allow developers of renewable power purchased through the SPEED program to recover their costs plus a return on their investment.

About SMA

The SMA Group, with sales of 1.9 billion euros in 2010, is the world market leader for solar inverters, a component that lies at the heart of every solar power system. Its headquarters is situated in Niestetal near Kassel and it also has 17 foreign subsidiaries situated on four continents. In 2010, the Corporate Group employed over 5,000 persons (including temporary staff). SMA produces a wide spectrum of inverter types, the optimal inverter for each type of solar module used and offers all the power classes required for solar power systems. The product portfolio includes both inverters for grid-connected solar power systems and stand-alone systems. Since 2008, the parent company SMA Solar Technology AG has been listed in the Prime Standard of the Frankfurt Securities Exchange (S92) and in the TecDAX. Over the past few years, SMA has received several awards for its outstanding performance as an employer

and lately reached first place in the federal "Great Place to Work" competition. www.SMA-America.com

About AllEarth Renewables, Inc.
AllEarth Renewables is a Vermont company that specializes in the design, manufacture and installation of complete grid-connected solar renewable energy systems that lessen dependence on nuclear and fossil fuels and reduce greenhouse gas emissions. The company's goal is to provide turnkey products that harness the power of the sun for homes and businesses while creating sustainable, well-paying jobs. In 2011, the CEO of AllEarth Renewables was named by *Business Week* as one of 25 of "America's Most Promising Social Entrepreneurs." The company currently has expansion plans throughout the northeast with a new dealer network. www.AllEarthRenewables.com

Media Contacts:
Tiffany Scalone • Tiffany.Scalone@SMA-America.com
Brad Dore • Brad.Dore@SMA-America.com
SMA America • 916 625 0870

Andrew Savage • asavage@allearthrenewables.com
AllEarth Renewables • 802-793-9793

Photo Caption: 2.2 MW Solar Tracker Farm in South Burlington, Vt.
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