



For Immediate Release

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Solar Thermal Energy and Waste Heat to Produce Electricity for Developing Nations

Colorado's Cool Energy & Global Schneider Electric to Work Together on Novel Solar System

BOULDER, CO; August 23, 2012 – The innovative Stirling engine power system created by [Cool Energy](#), which uses solar thermal energy and waste heat to produce electricity, will be tested this fall by global energy management company [Schneider Electric](#) for rural applications in developing nations. Cool Energy's advanced SolarHeart® Engine technology is being qualified in preparation for use with a community solar system being developed by Schneider Electric. The overall system will gather the sun's heat energy for water purification, cooking and hot water, and also use the thermal energy to produce electricity with the Cool Energy engine. In this way, the system will provide most of the forms of energy needed by a typical small village in developing nations. An important aspect of this solar thermal system is very low-cost thermal energy storage that allows for heat and power on demand. This storage component allows the energy to be stored and provided when needed during the day or night.

The solar energy generation project is part of Schneider Electric's [BipBop](#) program for Business, Innovation & People (BIP) at the Base of the Pyramid (BoP) in which the global energy management company is committed to tackle the challenge of the 1.3 billion people who have no access to electricity. Schneider Electric has already provided electrical engineering on-the-job training to 10,000 new engineers and undertakes actions in over 20 countries (more info at schneider-electric.com/bipbopmap).

"This is an important pilot for the solar application of the Cool Energy SolarHeart Engine to bring emission free power to thousands of people without electricity," said Mr. Weaver. "If we are successful with this testing program, it opens the door to help Schneider Electric meet its BipBop goal in which we provide one of the "innovation" pieces of the program. We are honored to work with Schneider Electric in 2012 – the United Nations' International Year of Sustainable Energy for All," added Mr. Weaver.

About Cool Energy

Cool Energy is a privately-held power conversion equipment corporation based in Boulder, Colorado. The company was founded in 2006 and began development of a thermal-to-electrical power generation system for converting waste heat from engines and industrial processes into clean electricity. The system is built around an advanced-materials Stirling engine, the SolarHeart® Engine, which captures and converts low-to-medium temperature heat (100 – 300 degrees Celsius) into electricity. The company has received grants and contracts from the National Science Foundation, the U.S. Department of Energy, the U.S. Environmental Protection Agency and the Colorado Governor's Energy Office, and has 10 patents awarded or pending. For an overview of the Cool Energy technology with CEO Sam Weaver, please see this [3-minute video](#) on YouTube. More information is available at www.CoolEnergyInc.com.

About Schneider Electric

As a global specialist in energy management with operations in more than 100 countries, Schneider Electric offers integrated solutions across multiple market segments, including leadership positions in Utilities & Infrastructures, Industries & Machine Manufacturers, Non-residential Buildings, Data Centers & Networks and Residential. Focused on making energy safe, reliable, efficient, productive and green, the company's 130,000 plus employees achieved sales of about 31 billion US dollars (22.4 billion euros) in 2011, through an active commitment to help individuals and organizations make the most of their energy. More info at www.schneider-electric.com/us.