



**MAXWELL TECHNOLOGIES AND SOITEC JOIN FORCES TO  
DEMONSTRATE BENEFITS OF INTEGRATING ENERGY STORAGE WITH  
CONCENTRATING PHOTOVOLTAIC (CPV) TECHNOLOGY**

*California Energy Commission to Fund Design and Installation at two Sites*

**SAN DIEGO, California, June 11, 2013** - Maxwell Technologies, Inc. (Nasdaq: MXWL) and Soitec (Euronext, Paris), announced today that they will collaborate on a California Energy Commission funded, two-phase program to demonstrate the cost and efficiency benefits of combining an energy storage system with Soitec's Concentrix™ CPV technology.

Maxwell has been awarded a \$1.39 million contract by the California Energy Commission's Research and Development program to fund design and integration of an ultracapacitor-based energy storage system with Soitec's CPV system located on the campus of UC San Diego—one of the nation's greenest universities—and a second commercial scale system at Soitec's solar power plant in Southern California. The integrated systems will also take advantage of other technology advances, including solar forecasting and predictive energy control, to maximize the benefit of incorporating ultracapacitor energy storage.

The project started in June 2013 and will run through November 2015. Independent evaluation of the performance of the integrated systems will be performed by BEW Engineering under a sub-contract with Maxwell.

“This innovative energy storage system combining ultracapacitors and Soitec's CPV technology, which is already installed on campus, is a welcome addition to UCSD's existing microgrid and provides a unique diversification of our existing energy storage capacity,” said Byron Washom, Director of Strategic Initiatives, UC San Diego.

“Investing in solar energy research is vital to California reaching its goal of 33 percent renewable generation by 2020,” said California Energy Commission Chair Robert B. Weisenmiller. “This innovative project combining energy storage with concentrated photovoltaic technology has the potential to increase the state's renewable energy portfolio, decrease greenhouse gas emissions, and create a more reliable electricity grid.”

Soitec's new fifth generation Concentrix CPV systems incorporate modules with a 30% market-leading module efficiency (or 2 to 3 times the efficiency of conventional PV technology). CPV technology converts sunlight directly into “clean” electricity via concentrator optics and high-efficiency solar cells, offering the best design for use in sunny regions as it delivers environmentally-friendly, low-cost, reliable solar generated electricity.

Additionally, the CPV system's 2-axis tracker allows a high and constant power production throughout daylight hours.

Ultracapacitors are energy storage devices that charge rapidly from any electrical energy source and discharge their stored energy on demand. In combination with a photovoltaic system, their function will be to act as a standby reservoir of electrical energy to mitigate the variability of solar energy generation.

This "firming" of the output of a utility scale commercial CPV system is intended to reduce demand on the electric grid to fill in short-term solar "valleys" to maintain a facility's electricity output. In addition to reducing the variability of a solar power plant, integrated ultracapacitor-CPV systems will benefit public utility customers by reducing investment in utility generation capacity to meet transient peak power demand.

"We are pleased by this new project with Maxwell Technologies," commented Clark Crawford, vice president of US sales and business development, Soitec Solar division. "Soitec's durable CPV systems are specifically designed to deliver higher efficiency and lower cost of electricity. By working together, we are confident that we can improve the integration of solar power plants into the grid and ultimately increase the penetration of solar in the electricity grid helping California to meet its 33% RPS goals."

Unlike batteries, which produce and store energy by means of a chemical reaction, Maxwell's ultracapacitor products store energy in an electric field. This electrostatic energy storage mechanism enables ultracapacitors to charge and discharge in as little as fractions of a second, perform consistently over a broad temperature range (-40 to +65C), and operate reliably for up to one million or more charge/discharge cycles.

"Electric utility grid applications represent an exciting new frontier for Maxwell," said David Schramm, Maxwell's president and chief executive officer. "This program is providing an opportunity to demonstrate how ultracapacitor technology can be applied to provide more efficient and cost-effective solutions for a variety of short-term power requirements."

**About Maxwell:** Maxwell is a leading developer and manufacturer of innovative, cost-effective energy storage and power delivery solutions. Its ultracapacitor products provide safe and reliable power solutions for applications in renewable energy, transportation, information technology and consumer and industrial electronics. Its CONDIS® high-voltage grading and coupling capacitors help to ensure the safety and reliability of electric utility infrastructure and other applications involving transport, distribution and measurement of high-voltage electrical energy. Its radiation-mitigated microelectronic products include power modules, memory modules and single board computers that incorporate powerful commercial silicon for superior performance and high reliability in aerospace applications. For more information, visit [www.maxwell.com](http://www.maxwell.com).

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**About Soitec:** Soitec is an international manufacturing company, a world leader in generating and manufacturing revolutionary semiconductor materials at the frontier of the most exciting energy and electronic challenges. Soitec's products include substrates for microelectronics (most notably SOI: Silicon-on-Insulator) and concentrator photovoltaic systems (CPV). The company's core technologies are Smart Cut™, Smart Stacking™ and Concentrix™, as well as expertise in epitaxy. Applications include consumer and mobile electronics, microelectronics-driven IT, telecommunications, automotive electronics, lighting products and solar power plants for large-scale utilities. Soitec has manufacturing plants and R&D centers in France, Singapore, Germany, and the United States. For more information, visit <http://www.soitec.com>

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