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[SunTrac Announces Concentrating PV/Thermal Hybrid](#)

Golden, CO - October 13, 2011 – SunTrac Solar is proud to announce a true revolution in solar energy: a Concentrating Photo-voltaic (PV) and Solar Thermal Hybrid panel in an easy-to-install flat plate enclosure. This breakthrough technology combines the tracking thermal concentrator that SunTrac is known for with concentrating PV (CPV) modules in the focal line of the panel. This creates a hybrid concentrating panel that generates both solar hot water and photo-voltaic electrical energy in the same panel. There is no separate PV panel array to mount. It is already mounted in the SunTrac panel, which saves racking, reduces installation costs and reduces roof space requirements.

SunTrac Solar's hybrid solar arrays successfully integrate the benefits of two previously separate systems, a thermal solar system and a photovoltaic system. This produces low-cost renewable electricity and hot water in each panel. The hybrid concentrating PV and thermal panel displaces both conventional fossil fuels to heat water and electricity consumed from the grid. The ability to generate energy on their rooftop insulates customers from rising energy costs and fuel price volatility.

The dual function panel increases overall efficiency by capturing heat and generating electricity at the same time - providing the best of both solar worlds. The combined heat and power output of the panel is five times the energy output of a conventional PV panel, producing both solar hot water and electricity. The lower the temperature of the photovoltaic modules, the higher the panel output will be. When the PV cell heats up, it inevitably leads to a loss in performance. This is especially true of concentrating PV systems. The SunTrac Solar Concentrating PV and Thermal panel can maintain the temperature of the water and therefore the temperature of the PV modules to optimize efficiency, thus boosting the system's electricity generation and lifetime.

The core business of SunTrac Solar is manufacturing and licensing a patented solar hot water panel for applications requiring water from 120 to 250 degrees F (50 to 120 degrees C). The panel is designed to be an alternative to evacuated tube collectors for commercial and industrial customers who require high water temperatures for their operations. At the temperatures the panels produce, SunTrac Solar is able to deliver costs per BTU that are among the lowest in the industry. It is also the only tracking solar thermal panel to be certified under the SRCC Standard OG-100 program.

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