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Sedona Energy Labs Will Debut InteliTrack™ at Solar Power International

New approach to dual-axis tracking uses patent-pending technology to enable maximum possible power production.

Flagstaff, Ariz., September 20, 2010 - Sedona Energy Labs today announced InteliTrack™, its new line of dual-axis solar tracking frames. The line includes the IT1500 designed for lightweight applications and IT2000 designed for commercial/industrial installations. Based on patent-pending technology, "these new systems enable solar arrays to generate a 40% or greater increase in power produced, compared to fixed solar frames," said Mark Scanlon, Founder and CEO. "This shortens project payback by about half and raises typical project ROI from single digits to the mid-teens."

InteliTrack's key difference from other tracking frames is its *Balanced/Frame*™ design. Conventional pole-mounted systems suspend the PV array from a single point so that it is always out-of-balance and pulled by gravity, requiring a massive support structure and base. The InteliTrack mounts PV panels like a gimbaled ship's compass - the panels revolve on their own axes and are always in balance no matter how they are positioned. The advantages of this design lead to significant cost savings:

- minimal or no concrete foundation required to support the system - little concrete and no heavy digging equipment
- minimal effort needed to rotate the panels - lightweight actuators and little power consumed
- lightweight structure – no crane needed, fast and easy to assemble

The IT2000 supports 5 PV panels of up to 85" x 45" generating 2030W from 290W panels. Its low-to-the-ground design conserves space making for high project density and more power per acre. Units can be ganged together sharing actuators and saving cost.

The IT1500 supports 6 panels of up to 72" x 36" generating 1554W from 180W panels. Weighing only 100lbs, the IT1500 is ideal for rooftop, parking shade structure, and other applications where weight is a factor. IT1500s can also be ganged together.

(more)

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Tracking for the InteliTrack line is done by the Yokogawa HXS10 SolStation Solar Positioning Controller.

Sedona Energy Labs is the first US company to adopt HXS10 and the second company worldwide. This power plant ready control system has a rich set of inputs and outputs, and is Modbus® and SCADA compatible, with a complete set of diagnostics and built with sturdy, industrial-grade technology. “These features make Yokogawa’s product a perfect fit for our application” said Mark Scanlon. “Their technology made it easy for us to implement features like backtracking and dynamic detection of obstructions to array motion,” continued Scanlon. “The InteliTrack uses our technology to its best advantage,” according to Andrew Brodie, Product Manager for Yokogawa.

The InteliTrack’s dual-axis system can overcome a sub-optimal installation in which the array is not perfectly south-aligned. Because it can move in 2 axes, it can position the panels correctly generating the maximum possible power in all seasons and at all times of the day. In addition, the product’s active tracking controls can perform wind-speed sensing to park the array in protective mode, snow load sensing to dump accumulated snow, and can park the array horizontally or vertically by remote command.

Sedona Energy Labs will be demonstrating InteliTrack at the Solar Power International show at the Los Angeles, Calif. Convention Center, October 12-14, 2010 in booth number 6345.

About Sedona Energy Labs

Founded in 2005 and headquartered at the Northern Arizona Center for Emerging Technology in Flagstaff, Ariz., Sedona Energy Labs develops and manufacturers practical, cost-effective problem solving technologies for the alternative energy sector. The founders have a long-term commitment to developing simple innovations that create a better life and a better environment, and to expand awareness of energy independence and efficiency.

Photo caption: The new Sedona Energy Labs InteliTrack array tracking system features advanced controls and unique dual-axis design.

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