

2008 California Launch Exhibitors

1-Solar Inc.—2007 Winner, Renewables

Low-priced long-life inverters for solar PV

1-Solar has developed a technology to lengthen the life and lower the cost of inverters for solar and other alternative energy systems. The 6kW inverter weighs less than 20 lbs., is lighter and smaller than any grid-tied inverters currently sold, has double to triple the life of the current technology inverters, and yet costs less. Since winning, 1-Solar has signed a 60,000-unit distribution agreement with a major Southern California solar distributor, hired engineers, moved into new quarters and acquired multiple manufacturing partners around the world. 1-Solar plans to offer inverters in the 1 to 50 kW range, single and three-phase.

www.1-solar.com

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barefoot motors, LLC—2007 Finalist, Transportation

“Green” electric all-terrain utility vehicles

barefoot motors, LLC, is a 2007 Transportation Finalist, with design, manufacturing and distribution plans for “green” all-terrain utility vehicles. The ATV market has a demand of close to 1 million units per year, and a market growth forecast of 20% by 2010. barefoot motors first product, a heavy-duty ATV, is designed to meet the performance requirements of existing gas-powered HD ATVs, yet with the benefits of a clean-tech, eco-friendly alternative—low noise, zero emission and high torque.

www.barefootmotors.com

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BuildFast—2007 Winner, Green Building

House kit for low-income and post-disaster housing

BuildFast is a building materials manufacturing company that has developed an innovative House Kit solution to help governments and nonprofits build low-income and post-disaster housing around the world—an untapped, multi-billion dollar market. BuildFast will generate significant positive societal impact, since its green, highly-insulated, earthquake-resistant building technology will help the world's poor, leveraging local labor and helping to build local economies. Since winning, BuildFast has finalized its production machinery, and established initial customers in California and Mexico, with plans to build several houses this summer. BuildFast has also set up an office at Plug and Play Center in Redwood City, and has been offered Angel funding.

www.buildfast.com

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Cool Earth Solar—2006 Runner Up, Renewables

Extremely low-cost inflated-mirror solar concentration

Cool Earth Solar develops and owns solar power plants utilizing their own proprietary concentrated photovoltaic (CPV) technology. Cool Earth Solar has engineered a solar power plant that competes economically with conventional fuels by radically reducing the material and weight of CPV. This novel technology employs an inflated concentrator and a tensegrity truss rigging structure, a material minimization approach that supports scaling to meet the world's growing energy demand. Cool Earth Solar closed a \$21 million Series A financing round, and is ramping up for utility scale production and deployment of its system. The funding is enabling a transition from R&D to construction of a manufacturing plant capable of turning out 50 MW of systems a year.

www.coolearthsolar.com

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Crystal Clear Technologies—2006 Winner, Water Management

Low-cost nanotechnology-based water treatment

Crystal Clear Technologies (CCT), using nanocoating technology, has created proprietary filter media with dramatically higher absorption capability and capacity than currently available media, at considerably lower costs. CCT can deliver potable water from a river at \$1.50/100 gallons, versus competitive systems that offer \$16.50–\$49/100 gallons.

www.simplyclearwater.com

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Federspiel Controls—2007 Runner Up, Smart Power

Wireless supervisory control of HVAC systems

Federspiel Controls provides a wireless control system called the Federspiel Advanced Control System (FACS™). FACS performs supervisory control of HVAC systems, reducing energy consumption and improving maintenance and operations. The system utilizes state-of-the-art wireless sensor network technology (mesh networking, spread spectrum, low power). The system software consists of device drivers, a SQL database, a web server, web-based alarming and a set of control applications for: converting constant volume HVAC systems to VAV operation (DART™); resetting static pressure in existing VAV systems (SAV with InCITe™); data center cooling control (DASH™); and demand response (DRIFT™).

www.federspielcontrols.com

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GreenVolts—2007 Winner Alumni Award, 2006 Winner, Renewables

High concentration grid-scale solar PV

GreenVolts changes the economics of solar energy. The company's concentrating photovoltaic technology achieves unparalleled solar to electricity conversion efficiency through the integration of optics and solar tracking. This technology combined with an innovative design provides the benefits of both centralized and distributed generation solutions to deliver a community-level solar energy system that is practical and scalable. Since winning the award in 2006, GreenVolts has signed an agreement with PG&E for a two megawatt HCPV power plant that, when completed, will be the largest such system in the world, and has successfully closed a first institutional funding round of \$10 million.

www.greenvolts.com

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Lucid Design Group—2007 Winner, Smart Power

Real-time information feedback drives energy conservation

Lucid's Building Dashboard® provides real-time information feedback on the environmental performance of buildings, to engage, educate and motivate occupants to better conserve environmental resources. Several independent studies have shown that real-time information feedback can reduce energy usage by 9% to 18% or more. With the onset of "green building" and the increasing costs of energy, there is a rapidly growing interest in technologies that monitor resource use in real-time, empower individuals to change their behavior, and witness verified reductions in energy consumption. Lucid Design Group has unveiled its Building Dashboard™ at Yahoo! corporate headquarters in Sunnyvale, California. Lucid's 25 customers have installed the system in 5% of all LEED Platinum buildings, and the company is now in discussion with potential funding sources.

www.luciddg.com

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Meridian Design, Inc.—2006 Runner Up, Water Management

Ultra-violet-based water treatment for developing nations

Meridian Design Inc. designs and produces very low-cost solutions for developing world needs that can also be sold into developed world markets to fund future work. They specialize in the fields of water purification, low-power lighting and personal power generation, and have developed several products in these fields. They have most recently developed and sell portable ultraviolet water treatment devices, including a device (the mÜV) that eliminates all water-borne pathogens, costs less than \$10 to make, and is solar rechargeable. The technology is based on ultraviolet light purification and is free of consumption or maintenance issues. Meridian Design is self-funded.

www.uvaquastar.com

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NiLA Inc.—2007 Winner, 2006 Runner-Up, Energy Efficiency

LED stage set lighting for the entertainment industry

NiLA produces the NiLA Lighting System, an environmentally sustainable LED lighting system for film and television production. This system contains no lead or mercury, uses 50% less energy, lasts 25% longer, and generates 70% less heat than traditional lighting systems. NiLa will provide its Lighting System in the filming of the up-coming James Bond film "Quantum of Solace" in Fall 2008. NiLA's business with rental agencies who supply lighting to the film industry is booming. NiLA is currently in the VC due diligence process.

www.nila.tv

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Tahoe Water Systems—2007 Runner Up, Renewables

Self-contained solar/wind based water pumping

For remote locations, extracting water from the Earth is expensive and produces significant amounts of pollution. Current systems rely primarily on miles of copper wire or fuel-hungry diesel engines. Tahoe Water Systems provides a self-contained solar/wind based solution that is competitively priced in acquisition, installation and operational costs.

www.tahoews.com

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Zee Dynamics Inc.—2007 Finalist, Energy Efficiency

Synthetic and natural rubber plastic compounding

Zee Dynamics has a patent-pending technology that addresses the most important environmental concerns in today's \$200 billion worldwide rubber market. These include reducing the amount of crude oil involved in the production of rubber products, reducing black carbon output, and extending the life of outdoor rubber products, ultimately increasing the safety of tires on wet or icy surfaces. The product is made up of a mineral named Zeolite, which is added to rubber formulations.

www.zeedynamics.com

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