

First California School Project Completed

In June 2005, Eastwood Energy delivered its first SunLink system for installation at a California public school. The 183 KW project, located at the Bacich elementary school in Marin County north of San Francisco, was sponsored by Sun Power & Geothermal, based in nearby San Rafael. Sun Power & Geothermal, a company with substantial experience in developing large solar installations, installed the project, which uses Sharp 188 watt modules. Sun Power & Geothermal is planning to use the SunLink module mounting system on another



10° SunLink array at Bacich School, Marin County, CA

large school PV project scheduled to be completed in the fall. This will be at the Kent School, also in Marin

County. Like Bacich, the Kent project will use Sharp 188 watt modules and will have an installed capacity of 47 kW DC.

SunLink selected for 1.2 MW System

On July 15, 2005 Eastwood Energy received a purchase order from Kevin Davies, President of Solar Development, Inc for a 1.2 MW DC SunLink system to be located near Sacramento, California. "Solar Development chose the SunLink system after an evaluation of its technical attributes-penetrationless, while adding only 3.2lbs/sf in weight to the roof." Kevin Davies went on to say, "The Eastwood team are enthusiastic, with a can-do attitude towards verification of wind and seismic requirements." Three fourths of the total PV array will be placed on the warehouse roof of a grocery wholesale company while one fourth will be situated on adjacent land. The latter will represent the first adaptation of SunLink as a ground mount. Installation of the system is scheduled to take place in the fall.



Aerial View of Project Site near Sacramento, California

Bacich Project Features

- Limited roof penetrations to meet seismic requirements of the CA Division of the State Architect.
- Easy installation (see Interview with installers)
- 10 degree module tilt angle to enhance energy output
- Distributed weight of <4 lbs/sf including weight of modules

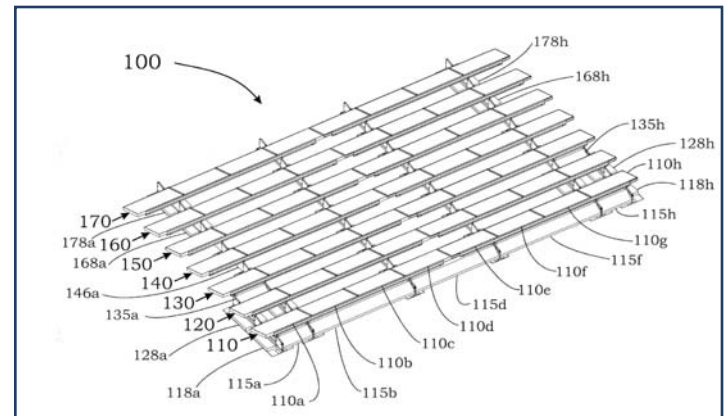
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SunLink Patent Status

Eastwood Energy's patent application for the SunLink system is moving forward. The patent will recognize the unique properties that enable SunLink to resist wind and seismic loads while eliminating or minimizing anchors into the roof structure. The keys are SunLink's lightweight but extremely strong architecture plus special aerodynamic properties. The spars, long aluminum extrusions that

create module rows, add substantial strength to the modules themselves. The linking of module rows into a contiguous array evenly distributes loads and creates a wind sheltering effect for interior rows. SunLink is highly adaptable to meet extreme environmental conditions. It is designed to integrate specially tested wind spoilers as well as tailored ballast trays in order to handle hurricane



Excerpt From Patent Application

force winds. In addition, the tilt brackets, which interface with the roof, are designed

to allow adhesion for the purpose of resisting seismic forces.

Interview With SunLink Installers

Ben Tuke, Field Supervisor and Byron Fung, Installer, both employees of Sun Power & Geothermal, were responsible for the installation of the 183 KW DC Bacich School project. Interviewed for the newsletter, they talked about their first experience in installing the SunLink system: "At the outset, we liked the way SunLink components arrived to the site largely pre-assembled and bundled in manageable boxes. All components were labeled

as to where they were supposed to go on the roof. This made it easy for us to lay out the job. The crew, consisting of contract laborers, did not require formal training but guided by our verbal instructions and Eastwood's Installation Manual, caught on quickly how to assemble the system efficiently. As we got going, we were pleased that virtually all the pieces fit together properly, requiring virtually no hole drilling. The wiring went smoothly, and the system

passed the electrical continuity tests on the first try. We were likewise pleased to see how evenly the module rows lined up. The lanes between rows appear perfectly straight, in contrast with other systems we have installed that look uneven and wavy. Another thing we like about the SunLink system is its lightweight all-aluminum construction. It was easy to move the components around the roof. Finally, we appreciated the support we

received from Eastwood's personnel." Asked how the solar array, which Eastwood's designer laid out, is performing, Ben said that initial electrical output tests indicate that the system is operating at 107% of projected. "Eastwood did an excellent job of determining sun-shading and optimizing the system for maximum annual energy production." The Sharp 188 modules are placed at a 10 degree tilt angle.



Ben Tuke and Byron Fung, Installers for Sun Power & Geothermal

2nd New Jersey Project Installed in High Wind Area

In July 2005, Eastwood Energy delivered a 30 kW 20 degree SunLink system to Air Systems in Kenilworth, New Jersey. This is Eastwood's second project located near the New Jersey shore in a 110 mph wind zone, and like the first project in Dover, NJ it does not involve roof penetrations. The project sponsor was Power Plus Solar of nearby Rockaway, NJ. The project is located on Air Systems' headquarters building.



Air Systems, Kenilworth, New Jersey

Mike Huber Profile

Mike Huber, Eastwood's Director of Mechanical Engineering, has had a varied and interesting career in the arenas of design, development, and manufacturing. At Westinghouse Marine Division, he designed components for Trident II and Tomahawk submarine-based missile launching systems. At Supracor Systems, he developed impact absorption systems for projects as diverse as Disney rides and blunt trauma liners for ballistic vests. For CSA Engineering he developed prototypes for an airborne laser optical isolation system. In the process Mike became skilled in CNC machining, which



*Mike Huber
Director of Mechanical Engineering*

allowed him to design and fabricate projects for NASA, Trimble Navigation, and others. While so engaged Mike met Michael Bowler and John Eastwood, which led to his designing and making flywheel power system parts for Trinity Flywheel, where John Eastwood was CEO. When John Eastwood subsequently

reformed John Eastwood Associates as Eastwood Energy Corporation, Mike joined the company as a principal and investor. In 2003, Mike and Michael Bowler collaborated on the design of a new module mounting system for a 142 kW PV project in Richmond, California. The interest shown in this system by PV developers, component distributors, and module suppliers resulted in Eastwood Energy's decision to refine the system architecture with an eye to possibly taking it to market. Mike guided extensive developmental testing, including finite element analysis, wind tunnel testing, and static load testing. He designed both

the test protocols and the fixturing, including the quarter scale models used in the wind tunnel. The success of these tests led to Eastwood Energy's business decision to concentrate its attention on SunLink manufacturing and marketing. Subsequently Mike Huber and Michael Bowler worked together on the SunLink patent application and on a paper on SunLink development presented at the Solar World Congress in Orlando. Currently Mike is focusing his energies on applications engineering, new product development, and manufacturing process development.

SunLink LLC Formed

On July 25, 2005, Eastwood Energy's Board of Directors approved and signed an agreement establishing SunLink LLC, ownership of which is shared equally between Solar PowerWorks (SPW) and Eastwood Energy Corporation. This infusion of capital will permit a major business expansion focused on SunLink with application on both flat roofs as well as ground mounts. The new arrangement will

allow Eastwood Energy to dedicate its energies to SunLink product development, applications engineering, customer support, marketing and sales. As explained by Rick Koebbe, CEO of SPW, which for several years has primarily focused on building, operating, and maintaining wind farms: "We view our participation in SunLink LLC as a way to increase our involvement in the burgeoning PV

market in cooperation with a more experienced partner. Eastwood Energy



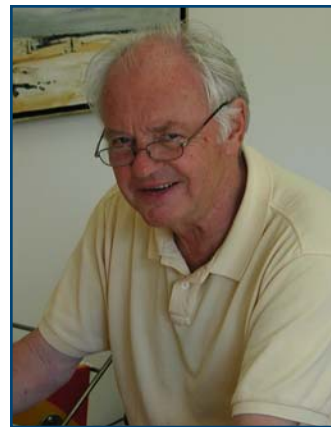
*Rick Koebbe, President
Solar PowerWorks*

has made great strides in the past two years in developing, testing, and successfully marketing its SunLink PV mounting system." John Eastwood also expressed enthusiasm for the new agreement: "We are excited to work with SPW in areas where they can bring to bear the expertise in component manufacturing and installation they have gained through years of work with wind turbines."

Eastwood Energy Background

Eastwood Energy Corporation is the successor company of John Eastwood Associates which, between 1986 and 2003, developed or advised on numerous alternative energy projects in the US. These included hydro, hydro pumped storage and wind energy projects. In 2003, Eastwood Energy, having developed its own module mounting system

for a commercial scale PV project it completed in Richmond California, decided to concentrate on SunLink development and marketing. The development process has involved extensive testing, including finite element analysis, static load tests, and wind tunnel testing, with protocols and results certified by qualified, independent engineering firms. The Eastwood



*John Eastwood, President
Eastwood Energy*

management team consists of John Eastwood, CEO/President; Michael Bowler, Vice-President, Production; Michael Huber, Director of Mechanical Engineering; Renny Slatkin, Vice-president, Sales; Mark Miller, Chief Financial Officer; Dean Anderson, Director of Marketing; Jonathan Eastwood, Lead Projects Manager; and Bret Turner, Design Engineer.

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