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## The Green Movement

*by Jim Hawk, Executive Vice President, Pre-Construction Services*

The Green movement is rapidly expanding and gaining momentum in many different ways and for various reasons. More and more people are beginning to understand that green buildings, renewable energy and hybrid vehicles are absolutely necessary if we are to reverse the effects of greenhouse gases on our environment. These effects are accelerating as countries



around the world become heavily industrialized. China, India, Pakistan, as well as a host of other emerging countries are undergoing a transformation into large scale industrialized societies. Needless to say, as the world develops into an industrial economy, there will be more and more pressure placed on our environment.

Is 90 degree weather at the end of September or the fact that category 3 and 4 hurricanes are becoming commonplace in the Gulf of Mexico an indication global warming is already affecting our climate? It is hard to say. The average temperature on earth has risen between .4 and .8 degrees over the past 100 years. With the accelerating effects of carbon dioxide and other greenhouse gases, scientists expect temperature increases of between 1.4 and 5.8 degrees by the year 2100. A change of this magnitude will certainly affect our climate and will impact our lives in ways we can only imagine. *(Continued on Last Page.)*



Americans generate and throw away 9 times as much waste as does a person in Africa or Central America, but we also generate two to three times the amount of waste as people living in industrial countries with a comparable or better standard of living as us.

## In-House Green

### Green In Las Vegas

*by Zac Hillyard, Las Vegas Green Team Leader*

Thank you REI Green Team for the support and development of the Division 14 Green Team! We truly appreciate this opportunity to participate in the quarterly issue of the REI Green Wire. Though we are still in the infancy of our Las Vegas Green Team, many great ideas and **GREEN** happenings are "under construction."

Our emerging team has helped establish recycling awareness within our office by setting up paper recycling bins next to printers, encouraging 'double-sided' printing practices to reduce paper waste, and utilizing the scanning feature where possible to minimize wasteful copies and become more efficient with the technologies available.

With a majority of current work allocated to MGM's Project City Center, the largest project to pursue the LEED certification to date, there is no better time than the present to educate ourselves on the countless ways of participating in the Green movement.

As the Green presence of Rosendin in Las Vegas grows stronger with participation in the Nevada Chapter of the USGBC, our team also intends to demonstrate leadership through community awareness. Establishing philanthropies like a holiday food drive and a book drive will allow another avenue for our co-workers to give back to the community and recycle unused books that are welcomed by Friends of Southern Nevada Libraries.

Additionally, we are proud to congratulate our resident P.E., Joe Dietrich, on becoming our 1st LEED AP in Las Vegas!

**In-House  
Recycling Efforts -  
San Jose  
Corporate Office  
Employees**



*Fluorescent lamps,  
light bulbs, and  
household batteries  
can be brought in to  
the Warehouse to  
be recycled. Please  
see Jason Lopez or  
Ernie Beltramo.*

### Learning from the California Academy of Science

*by William Mazzetti, Vice President Engineering Services*

Not all lessons at the Academy are in the natural sciences. As the most "green" building in the US, if not the world, the Academy sits at the forefront of mechanical and electrical system integration that's vital to achieving the performance standards of the building. One of the most exciting systems is the Lutron dimming system that integrates the lighting, automated windows and skylights and window shade control systems. This system seamlessly integrates into the Academy's temperature control system, offering a perfect working platform for passive and mechanical cooling and lighting control systems. Rosendin Electric has been able to apply our lessons from the Academy to all of our work, specifically in lighting control systems that allow us to drop the installed lighting power while greatly exceeding current Title 24 standards.



## Upcoming Green Events

### USGBC Local Events:

**November 5, 2008**

**Building Green Series “Lunch and Learn” (11:30AM – 1:00PM)**

[http://www.usgbc-ncc.org/index.php?option=com\\_events&type=event&task=details&id=244&Itemid=109](http://www.usgbc-ncc.org/index.php?option=com_events&type=event&task=details&id=244&Itemid=109)

**November 5, 2008**

**USGB-NCC Monterey Bay Branch Monthly Meeting: Lean Thinking and Construction Project Management (5:00 PM – 8:00PM)**

[http://www.usgbc-ncc.org/index.php?option=com\\_events&type=event&task=details&id=232&Itemid=109](http://www.usgbc-ncc.org/index.php?option=com_events&type=event&task=details&id=232&Itemid=109)

**November 11, 2008**

**USGBC-NCC Silicon Valley Branch Monthly Meeting: Building Sustainable Cities – Policies and Programs (5:30 PM – 8:30 PM)**

[http://www.usgbc-ncc.org/index.php?option=com\\_events&type=event&task=details&id=240&Itemid=109](http://www.usgbc-ncc.org/index.php?option=com_events&type=event&task=details&id=240&Itemid=109)

**November 12, 2008**

**USGBC-NCC SF Monthly Meeting: “Meet the Board Candidates” Night (5:30 PM - 7:30 PM)**

[http://www.usgbc-ncc.org/index.php?option=com\\_events&type=event&task=details&id=128&Itemid=109](http://www.usgbc-ncc.org/index.php?option=com_events&type=event&task=details&id=128&Itemid=109)

**November 13, 2008**

**USGBC-NCC Sacramento Branch: Building Tour – Glumac Folsom Office (5:30 PM – 7:30PM)**

[http://www.usgbc-ncc.org/index.php?option=com\\_events&type=event&task=details&id=242&Itemid=109](http://www.usgbc-ncc.org/index.php?option=com_events&type=event&task=details&id=242&Itemid=109)

For additional Info visit: <http://www.usgbc-ncc.org/>


### Other Events:

**November 19-21, 2008**

**Greenbuild International Conference - Boston, MA**

Rosendin Electric is proud to announce we will be exhibiting at the Greenbuild Conference with over 30k attendee’s expected this year. Rosendin has set forth goals for recruiting, client relations, as well as company wide educational priorities.

For additional info visit: <http://www.greenbuildexpo.org/>



All REI employees interested in attending these events please contact Erica Paul.

## Dura Block Rooftop Support Systems

by Tim Dixon, Purchasing

The B-Line Dura Block rooftop support system can be used for several applications and Trades. Use the Dura Block to support conduits, cable trays, ducting, and HVAC equipment on a rooftop installation.



A few installation benefits of this product are that it's non-penetrating so it can extend roof life and dampens vibrations. A 1" gap between blocks on longer configurations allows water to freely flow between blocks, and no roof penetrations are required. The environmental benefit of B-Lines Dura Block

rooftop conduit support system is that it's made entirely out of 100% recycled rubber products. This product can help obtain points for the LEED Materials and Resources Credits.

Since it is buildings, rather than individual products, that receive LEED certification, no single company or its products can earn points on their own, but their products can contribute to LEED point attainment, in conjunction with others in the same category.

The Washington, DC-based Institute For Local Self-Reliance calculates that recycling creates 36 jobs per 10,000 tons of material recycled compared to 6 jobs for every 10,000 of tons brought to traditional disposal facilities.

## Membership & Affiliation

**Rosendin Electric has membership in and is affiliated with ...**

DBIA - This organization founded to advocate and advance single source project delivery within the design and construction community which embraces architecture, engineering and construction services under a single contract, thereby re-integrating the roles of designer and constructor.



USGBC – a non-profit community of leaders working to make green buildings available to everyone within a generation



USGBC Education - addresses the widespread need for green building education beyond LEED. The program's primary goal is to drive green market transformation through quality education.



The energy saved from recycling one glass bottle can run a 100-watt light bulb for four hours.

Recycling plastic saves twice as much energy as burning it in an incinerator.

Recycling one aluminum can saves enough energy to run a TV for three hours -- or the equivalent of a half a gallon of gasoline.



## **The Green Movement** *(Continued from First Page)*

So how can we change the path we are currently heading down? Thankfully we are witnessing many of the changes now. Driving home the other evening I noticed two solar projects along the way. Both were at San Jose schools, Leland High School and Pioneer High School, and were part of the district's overall solar energy project. Going through the Sunday paper, I read an article about how a hotel development at North Star will include wind turbines to self power much of the new building. On a larger scale, Rosendin was just awarded a major project in Oregon to build solar panels (with Spectra Watt) and will be bidding a similar project very soon in the Bay Area (Solyndra).

Additionally, our Wind Division continues to be extremely busy with close to 2000 MW of wind turbines wired this year! More and more projects we bid have a goal of Silver, Gold or Platinum LEED certification. Many of the buildings Rosendin designed and built have already achieved the highest levels of LEED certification. Rosendin, as well as the construction industry, are collectively playing a big part in designing and building Green!

All of us need to be mindful of the challenges facing our environment and understand that collectively we can impart the changes needed to make a difference. I commend the efforts of the Rosendin Green Team and their efforts to make us aware of the need to be Green. I also would like to congratulate all the folks that received their LEED Accreditation. The more people that understand green building principles, the more our company, as well as the construction industry, can take a leadership role in the Green movement. This is not only good for Rosendin; it is good for our environment!

