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Renewable Industry Review

Insider's peek at green jobs, events and news you can use

Emerging Technology News from Allied Schools



Training4Green

Considering a Career in Renewable Energy or Energy Efficiency? There's Good News...

The new ASES Green Collar Jobs report from American Solar Energy Society (ASES) and Management Information Services, Inc. (MISI) provides an analysis of the opportunities in the rapidly growing renewable energy and energy efficiency industries:

- Renewable energy and energy efficiency currently provide more than 9 million jobs and \$1,045 billion in revenue in the U.S. (2007)
- 95% of the jobs are in private industry

- As many as 37 million jobs can be generated by the renewable energy and energy efficiency industries in the U.S. by 2030 – more than 17% of all anticipated U.S. employment

- Hottest sectors include solar thermal, solar photovoltaics, biofuels, and fuel cells (in terms of revenue growth)

- Hot job areas include electricians, mechanical engineers, welders, metal workers, construction managers,

accountants, analysts, environmental scientists, and chemists

**Renewable Energy-
One of the Fastest
Growing Industries
in the U.S.**

- Renewable energy and energy efficiency can create millions of well-paying jobs, many of which are not subject to foreign outsourcing

- The renewable energy industry grew more than three times as fast as the U.S. economy in 2007 (not including hydropower)

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30-Year Old White House Solar Panel to be Displayed at Smithsonian

According to the Smithsonian Institute, The Smithsonian's National Museum of American History recently accepted a solar panel that was once installed on the White House. The panel was donated by Unity College in Unity, Maine, during a ceremony on July 21, 2009.

"Solar America" was an initiative undertaken by President Jimmy Carter's administration three decades ago. On June 30, 1979, 32 solar panels were installed on the roof of the White House

above the Oval Office to heat water in the staff kitchen.

The panels were removed in 1986 during the Reagan Presidency and obtained by Unity College in 1991. Of the original 32 panels, 16 were refurbished and installed on top of the college cafeteria. They were used to heat water until 2005 when they reached their maximum lifespan.

The installation of the solar panels on the White House was considered

a symbolic act at the time and demonstrated the direction the Carter administration planned to take regarding energy sources in America.

One of those panels was donated to the Smithsonian's collection in the division of politics and reform. The solar panel is the museum's most recent addition to its White House collection, which dates to the early 17th century. Another of the panels was donated to the Jimmy Carter Library and Museum in Atlanta.



29 States Have Renewable Energy Goals

29 states, plus Washington, D.C., have established a required minimum amount of electricity generation that must come from renewable energy sources. These goals are known as the Renewable Portfolio Standards (RPS). Green Advocates want the national Renewable Portfolio Standard to foster faster growth of renewable energy sources throughout the U.S.

The definition of renewable power varies by state – for example, some states include hydropower generation and nuclear power in their goals.

Below is a list of the states with Renewable Portfolio Standards, compiled by researchers at North Carolina State University and the Pew Center:

State Standard by Year

Arizona - 15% by 2025
 Montana - 15% by 2015
 California - 20% by 2010
 Nevada - 20% by 2015
 Colorado - 20% by 2020
 New Hampshire - 25% by 2025
 Connecticut - 27% by 2020
 New Jersey - 22.5% by 2021
 Delaware - 20% by 2019
 New Mexico - 20% by 2020
 Hawaii - 20% by 2020
 New York - 24% by 2013
 Illinois - 25% by 2025
 North Carolina - 12.5% by 2021
 Ohio - 25% by 2025
 Kansas - 20% by 2020
 Oregon - 25% by 2015
 Maine - 33% by 2010
 Pennsylvania - 18% by 2020
 Maryland - 20% by 2022
 Rhode Island - 16% by 2020
 Massachusetts - 15% by 2020
 Texas - 5% by 2015
 Michigan - 10% by 2015
 Washington - 5% by 2020
 Minnesota - 25% by 2025
 Washington, D.C. - 20% by 2020
 Missouri - 15% by 2021
 Wisconsin - 10% 2015



Careers in Renewable Energy

BUILD YOUR CAREER AS A LEED PROFESSIONAL - PLAY AN IMPORTANT ROLE IN TODAY'S GREEN BUILDING PRACTICES

What is LEED?

Developed by the U.S. Green Building Council (USGBC), LEED is an internationally recognized green building certification system, which provides third-party verification that a building or community was designed and built using green strategies.

How does LEED work?

LEED includes a point-based system whereby buildings earn LEED points for satisfying specific green building criteria. The categories of points include:

- Sustainable Sites (SS)
- Water Efficiency (WE)
- Energy and Atmosphere (EA)
- Materials and Resources (MR)
- Indoor Environmental Quality (IEQ)

• Innovation in Design (ID)

The number of points the project earns determines the level of LEED Certification the project receives.

How do you become a LEED professional?

For individuals that want to demonstrate green building expertise in non-technical fields of practice, GBCI has created the LEED Green Associate credential, which provides basic knowledge of green design, construction and operations. There are also other higher-level certifications available.

To be eligible for the Green

Associate credential, you must be either involved in a LEED-registered project, or employed in a sustainable field of work or enrolled in an education program that addresses green building practices.

LEED
is an internationally
recognized green building
certification system

Allied's Green Building Practices course provides qualifying education for the LEED Green Associate certification exam and is the perfect starting point for a career as a LEED professional.



Incentives for Green Home Owners

The U.S. House of Representatives has passed a massive energy conservation and emissions-control bill that contains a whole subsection dedicated to creating incentives for building and financing more energy-efficient homes. Here are some of the key housing-related provisions included in the bill:

1

Fannie Mae and Freddie Mac would be directed to develop new mortgage products and more flexible underwriting guidelines to energy-conscious borrowers and builders.

2

The FHA is directed to insure a minimum of 50,000 new energy-efficient mortgages in the next three years. (An energy-efficient house is defined as one in which energy consumption is reduced by 20 percent after renovations.)

3

Real estate appraisers would be required to consider energy improvements and the money they save in determining the value of homes.

4

State governments would ensure that homeowners who are no longer fully dependent on utility companies will not be denied property-hazard coverage by insurance companies.

5

Heftier tax credits for solar panels, solar water heaters, geothermal heat pumps, heavy-duty insulation, windows, air-conditioning and the like.



HOTELS TARGET LEED CERTIFICATION FOR CORPORATE HEADQUARTERS

THREE WELL-KNOWN HOTEL CHAINS ARE SEEKING LEED CERTIFICATIONS FOR "GREENING" THEIR CORPORATE HEADQUARTERS. CHECK OUT WHO THEY ARE, WHAT THEY'RE DOING AND HOW THESE MAJOR HOTEL CHAINS ARE SETTING PRECEDENTS FOR BUSINESSES WORLDWIDE.

Hilton Hotels Corporation

Hilton moved its headquarters from Beverly Hills, CA to McLean, Virginia. The new building has received LEED-Gold certification. Here's why:

- 70% Powered by Green Power
- Reflective Roof
- Low-Flow Plumbing - 40% less water used
- 10,000 Gallon Cistern for Capturing Rainwater
- Sustainable Wood in Doors and Lobby
- Energy Efficient Windows
- Special Parking for Low Emitting Vehicles

Wyndham Worldwide

Wyndham is encouraging employees to drive less. So, the company has equipped their headquarters with a green dry cleaner, credit union and a gift shop offering necessities like milk and eggs. Wyndham is seeking LEED certification for the commercial interior of its headquarters. Currently, the building is:

- 100% Powered by Wind (through ConEdison)
- Energy Efficient Lighting & Motion Sensor Systems
- Decorated with Low-VOC Paint
- Recycled Steel, Aluminum & Particle Board Cubicle Walls

Marriott International

Marriot International is currently seeking LEED certification for its existing home office building. In fact, the company has successfully diverted 64% of its landfill waste simply by recycling. Here's how the company is making progress towards LEED certification:

- Cafeteria has Eliminated Disposables
- Use of Sustainable Paper & Cleaning Products
- Energy Efficient Lighting
- Low-Flow Faucets & Toilets

California Wineries Utilize Renewable Energy Sources

Can wine be "green" friendly too? Absolutely. Wineries worldwide are utilizing renewable energy technologies, like solar energy, to cut costs and improve overall efficiency. And with California's current tax rebates and federal tax breaks, businesses can earn a quicker return on a smart, earth-friendly investment. Here's how a few are pioneering the way:

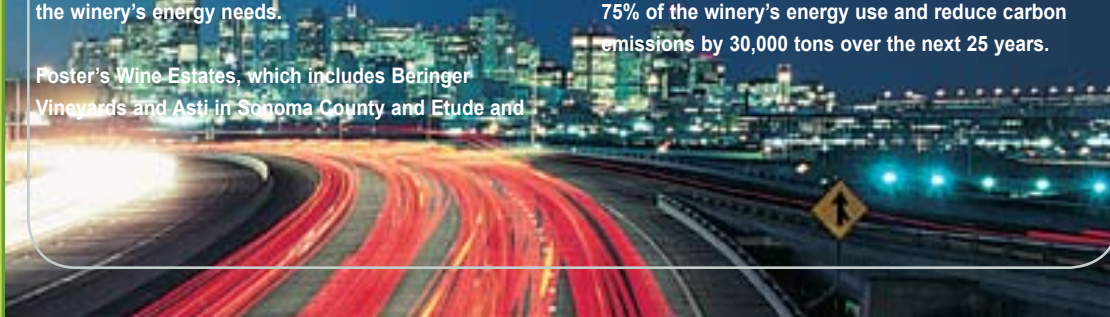
Grgich Hills of Napa Valley boasts a commercial photovoltaic system that produces an estimated 170.08 kilowatts of electricity during peak production hours. The PV system was designed to meet 100% of the winery's energy needs.

Foster's Wine Estates, which includes Beringer Vineyards and Asti in Sonoma County and Etude and

Stags' Leap Wineries in Napa Valley have collectively utilized three megawatts of photovoltaic energy to meet their daily operation needs.

EOS Winery, which is located on California's Central Coast, is making efforts to convert to 100% solar power. The winery is currently using three solar power systems, including a 504 kWp photovoltaic (PV) tracking system that spans two acres.

J Lohr Winery boasts a 3-acre photovoltaic panel installation in Paso Robles that will cut approximately 75% of the winery's energy use and reduce carbon emissions by 30,000 tons over the next 25 years.



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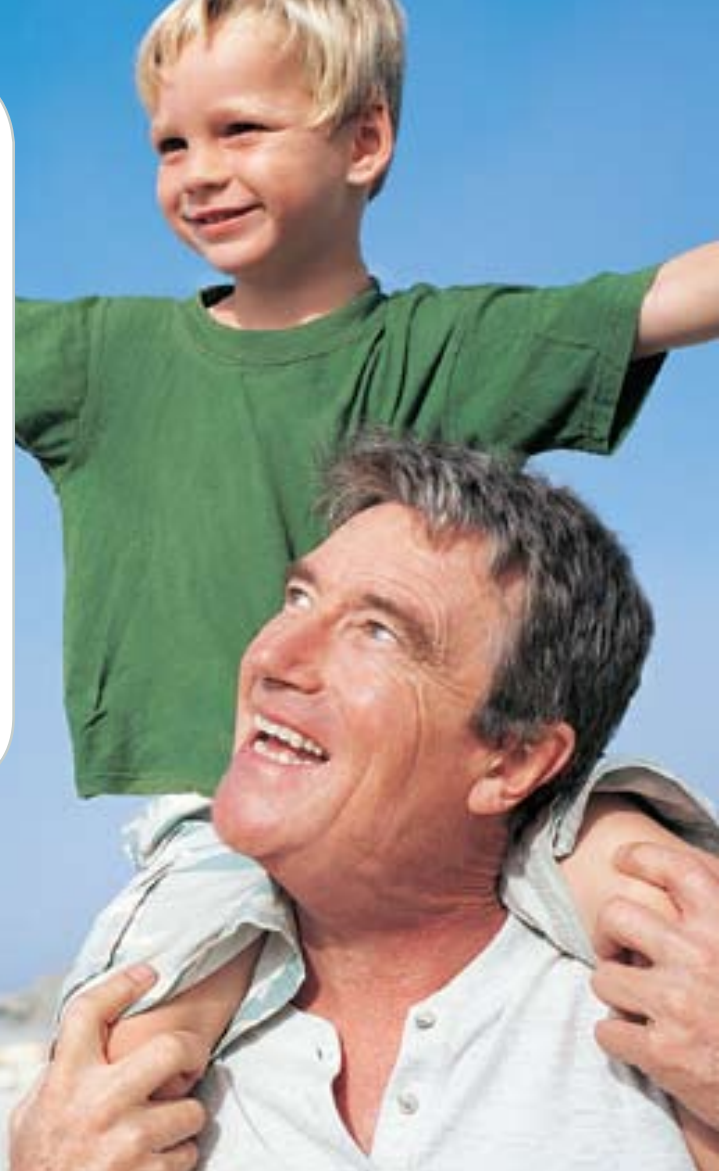
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Be on the ground floor of the emerging technology industry and realize your full career potential with green training from Allied.

- The Business of Solar Course
- Introduction to Photovoltaic Systems
- Advanced Principles of Photovoltaic Systems Installation
- LEED - Green Building Practices
- Introduction to Green Building
- Home Energy Survey Professional

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