

July.09

# Renewable Industry Review

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

Emerging Technology News from Allied Schools

The logo for Training4Green features a green leaf icon to the left of the text "Training4Green", where the "4" is a larger, bold number. The text is in a green, sans-serif font.

## Opportunities are Growing for Solar!

### Renewable Energy Is Going Global – from the U.S. to China!

It isn't just the U.S. that is focusing on renewable energy sources – REN21 reports that at least 73 countries now have official renewable energy goals, up 66% from the end of 2007. There is a shared vision: to boost the economy, create jobs and benefit the environment.

It seems that everyone is seeing the benefits of wind and solar energy – even in the

face of an economic downturn, there are an increasing number of favorable renewable energy policies worldwide.

At the first official meeting of the Economic Recovery Advisory Board, President Obama focused on energy and “green” jobs that will make the country more energy efficient – including the installation of solar panels and building wind turbines. Additionally, developing countries, such as China and India, are

playing major roles in both the manufacture and installation of renewable energy.

**73**  
countries have official  
renewable energy goals

According to REN21's annual Renewables Global Status Report, the worldwide capacity for renewable energy grew by 16 percent in 2008 to 280

gigawatts – showing significant growth and promise.

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# Global Solar News

- Existing wind power capacity grew by 29 percent in 2008, more than double the capacity at the end of 2005
- Grid-connected solar PV continues to be the fastest growing power generation technology, with a 70 percent increase in existing capacity
- The solar power industry saw many new entrants and new manufacturing facilities in 2008

- Direct geothermal energy is now used in at least 76 countries
- Geothermal power capacity surpassed 10 GW in 2008, led by the United States.
- China doubled its wind power capacity for the fifth year in a row
- Spain became the PV market leader, with 2.6 GW of new grid-tied installations

- Several hundred cities and local governments around the world are actively planning or implementing renewable energy policies and planning frameworks linked to carbon dioxide emissions reduction
- By August 2008, at least 160 publicly traded renewable energy companies worldwide had a market capitalization greater than \$100 million

(Source: REN21 Renewables Global Status Report 2009)



## Fed Budgets \$4 Billion for Green Jobs

On May 26, 2009, U.S. Housing Secretary Shaun Donovan announced that approximately \$4 billion of President Obama's economic stimulus plan will be allocated to renovate public housing nationwide. The goal of the renovations is to make the public dwellings more energy efficient, while also creating more "green" jobs.

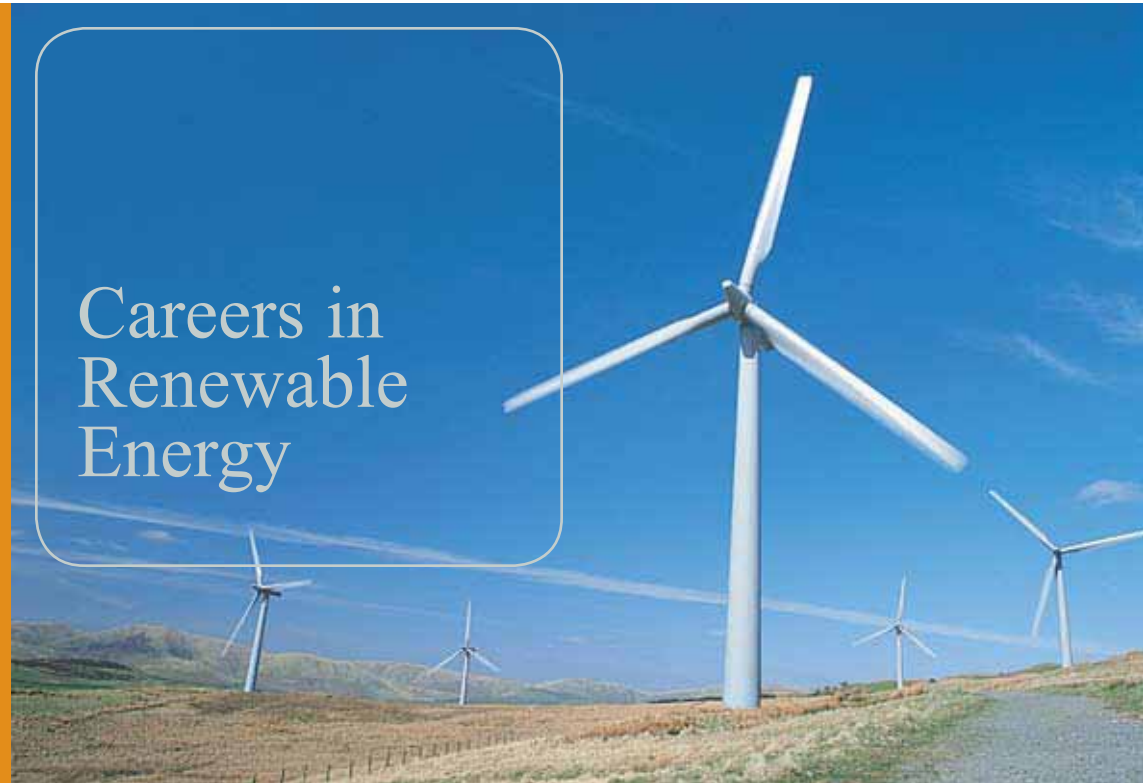
Additionally, \$500 million from the stimulus plan will become available to train workers for these jobs. According to Donovan, this important investment will help reduce energy costs for residents and the government, create jobs for people in surrounding communities and improve the overall quality of public housing.



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## Careers in Renewable Energy



### CAREER PROFILE: CERTIFIED PHOTOVOLTAIC (PV) SYSTEMS INSTALLATION TECHNICIAN

**Background:** Photovoltaics is the field of technology related to the application of solar cells to energy whereby sun energy is captured and converted directly into electricity.

**Career:** Photovoltaic (PV) Systems Installation Technicians install and maintain solar panels for residential or commercial PV customers. This includes completing all necessary electrical connections of the PV panels – such as connections to inverters, batteries, power grid interconnects and customer circuits. (Bureau of Labor Statistics, Texas Workforce Commission)

**Requirements:** Technicians must meet prerequisites of related experience and/or education to become certified. The North American Board of Certified Energy Practitioners (NABCEP), [www.nabcep.org](http://www.nabcep.org), lists the various requirements for solar PV systems installer certification.

**Salary:** Experienced Certified Photovoltaic (PV) Systems Installation Technicians can earn an hourly salary rate of \$20 to \$25.

**Career Outlook:** The Obama Administration has committed to doubling U.S. renewable energy by 2012, and plans to invest \$150 billion over 10 years toward the nation's clean energy economy. These plans are designed to help create five million new jobs during this timeframe – creating a wealth of opportunities in the solar energy field.

**\$150 billion**  
The total investment by  
U.S. in renewable energy



# Green Jobs

“Poised for Explosive Growth”

# 1

The “clean-energy economy” grew 9.1 percent between 1998 and 2007 to **777,000 jobs**

# 2

80 percent of venture capital investments in 2008 were in the clean energy and energy efficiency sector

# 3

Job growth in the clean-energy economy outperformed total job growth in 38 states and the District of Columbia between 1998 and 2007

# 4

California had the most clean-energy jobs last year with about 125,000 jobs, Texas ranked second with about 55,000 clean-energy jobs

# 5

The \$787 billion American Recovery and Reinvestment Act, which President Obama signed in February, is a significant force driving the clean-energy economy

From the Pew Charitable Trusts



## Despite Tighter Budgets, Companies Spend Money to Meet Green Initiatives

ALTHOUGH COMPANIES NATIONWIDE ARE SLASHING BUDGETS, MANY ARE MAKING SMART INVESTMENTS IN ONE OF THE FASTEST GROWING GREEN MOVEMENTS IN THE COUNTRY – SOLAR ENERGY. HERE’S HOW A FEW GREEN PIONEERS ARE SETTING IMPRESSIVE PRECEDENTS FOR HOW COMPANIES UTILIZE PRECIOUS RESOURCES.

**Cox Communications** has an environmental policy called Cox Conserves where their goal is to use renewable forms of energy, reduce greenhouse emissions and conserve resources. For example, Cox is utilizing

photovoltaic power systems and solar thermal energy systems in facilities like auction houses and automotive detailing shops throughout various states they serve.

Corporation, a solar power manufacturer, are working on creating the country’s largest urban solar power plant. Plans call for an approximately \$60 million, 10-megawatt solar photovoltaic facility that would rest in an industrial redevelopment area of Chicago.



**Walmart** stores in California are implementing a store-solarizing program. The company has enlisted the help of BP Solar to provide photovoltaic solar power systems for store rooftops. This will allow participating stores to run on clean electricity.

**The FPL Group** (parent company of Florida Power & Light Company) and NextEra Energy Resources are implementing a high-tech tracking system that ensures solar panels stay aimed at the sun for maximum efficiency.

**Exelon**, an electric utility company, and SunPower

## NEW U.S. AUTO STANDARDS: THE FAST TRACK TO OIL INDEPENDENCE

New U.S. auto standards are going to change the face of the auto industry. In an effort to reduce oil dependence and lower the emission of greenhouse gases, new legislation is calling for new standards:

New cars and trucks sold in the U.S. will be required to have an average of 35.5 miles per gallon, about 10 mpg more than today’s standards. Passenger cars will be required to get 39 mpg; light trucks will be required to get 30 mpg.

These smaller, lighter and more efficient vehicles will spell opportunity for the “green” industry. To reach the new standards, vehicles will need: more turbochargers, advanced lithium-ion batteries (like those used in cell phones and power tools), electric motors, and lighter aluminum and plastics.

Yes, these amenities will cost consumers more, but there will be gradual returns at the gas pump. Additionally, subsidies to automakers and incentives to consumers will push this new wave of opportunity – opening the gateway for suppliers, manufacturers and installers of “green” auto products.



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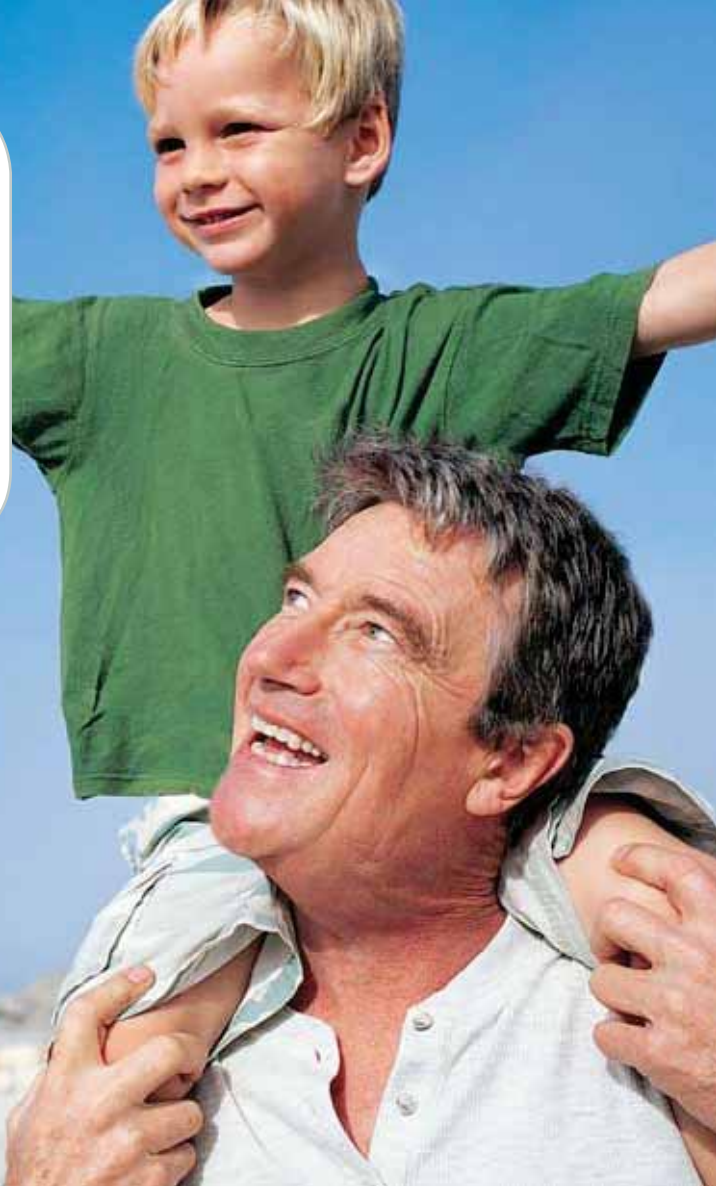
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