Power-Careers.com

LINKING INDUSTRIES TO MILITARY TALENT

Volume 1, Issue 3 October 2008

Zero-carbon Coal - The Future Of Coal Working Group

Above Picture: The NRG power plant, which runs on coal, spews smoke just outside of Jewett, Texas along Texas Highway 39.
Source: Center for American Progress, "Early Deployment"

Coal is a low-cost, domestically abundant fuel that is used for 56% of the electricity generated by U.S. power plants. Its high carbon content, however, is a contributor to the build-up of carbon dioxide in the atmosphere. With the right technology, it's possible to capture those emissions and literally bury them - pump them into the same airtight formations that once held oil and gas underground. Widespread use of this process would make the abundant coal resources in the U.S. a low-carbon option.

The *Energy Future Coalition* is a broad-based, nonpartisan alliance that seeks to bridge the differences among business, labor, and environmental groups and identify energy policy options with broad political support. The coalition aims to bring about changes in U.S. energy policy to address the economic, security and environmental challenges related to the production and use of fossil fuels with a compelling new vision of the economic opportunities that will be created by the transition to a new energy economy.

The *Energy Future Coalition* has six working groups that are the heart of their coalition-building process and are dedicated to identifying the steps needed for change in their respective issue areas.

The *Future of Coal Working Group* spent six months in productive and open discussions about how to design policies for the sector that can attract support from a diverse array of key constituencies. All sides agree that successful resolution of the issue of managing carbon emissions from coal is vital to resolving conflicting societal, economic, and environmental concerns brought on by coal use. The working Group is committed to continuing these discussions. *Future of Coal Working Group's* recommendations in brief:

Recommendation #1: Enhance Research & Development
Increase R&D funding, especially on capture and sequestration.

Recommendation #2: Tax credits
Financial incentives to reduce capital cost of advanced technology to competitive levels.

Recommendation #3: Carbon limits
Discussion continuing of how to achieve carbon reductions over time with minimal effect on coal industry.

These recommendations have the potential to create 600,000 jobs and reduce carbon emissions by 60 million tons per year.

"Recommendations In Depth"
Article Written By: The Future of Coal Working Group
1800 Massachusetts Ave. Washington, DC 20036
To Read the full article & report, please go to: http://www.energyfuturecoalition.org/pubs/EFCReport.pdf

*While the fist sentence of the article states that 56% of our nations electricity is generated from coal, it has been widely stated that it is in fact 51%; as quoted by: **Congressman, Rick Boucher***

Facts and Useful Information

- 72% of our nation's electricity is generated through fossil fuel, 51% is based on coal use, 20% is reliant on natural gas, and 1.6% on petroleum.
- Due to its vast hydropower industry, Idaho has the cheapest electricity in the United States.
- Trailing Idaho, is Wyoming in 2nd place with 94.5% of electricity being provided by coal at 5.27 cents per kilowatt hour.
- New Mexico ranked nation's highest electricity cost at 7.37 cents per kilowatt hour.
- Using coal to generate electricity is less than a 1/3 of the cost of other fuels.

Index

"When you believe in yourself, you're free to focus on improving and reaching your potential"

Career Fairs

For Prior Military Forces— Nationwide

October

October 3, 2008
Diversity Military Friendly Job Fair
Gaylord Resort & Convention Center
Oxon Hill, MD 20745

October 21, 2008
The Military Job Fair of Virginia
Hampton Roads Convention Center
Hampton, VA 23666

November

November 7, 2008
Corporate Gray Job Fair
Doubletree Hotel Crystal City
Arlington, VA

November 18, 2008
Job Zone Job Fair
Armory
Norfolk, VA

December

December 3, 2008
Job Zone Job Fair
The National Guard Armory
Fredericksburg, VA

December 10, 2008
NCOA Job Fair
Live Oak Civic Center
Live Oak, TX 782333

"NYPA Announces Pivotal Step To Provide Clean, Renewable Power For Rebuilt World Trade Center"

White Plains, NY - The New York Power Authority (NYPA) recently announced that it has reached an agreement that will make the redeveloped World Trade Center the site of one of the largest fuel cell installations in the world.

The fuel cells, totaling 4.8 megawatts (mw) of generating capacity, will provide an on-site supplement to the renewable power and other clean energy the rebuilt World Trade Center will receive via power lines from off-site sources. Together with design measures to minimize energy use, the "green" power arrangements will make the Freedom Tower and three other towers that are part of the Trade Center a model for environmentally friendly energy and for energy efficiency.

"One of the most important building projects in the nation will be equipped with space-age energy technology that uses an electrochemical process to produce clean on-site power," Gov. David A. Paterson said. "The fuel cells and other measures will help make the new World Trade Center towers an example of environmental sustainability and will signal to the world New York State's commitment to greater energy security and reduced dependence on foreign oil. I can think of few sites in the country where the symbolism of this is more important."

Fuel cells generate electricity by combining hydrogen and oxygen in a chemical reaction. They require few moving parts, making them a quiet, reliable and safe source of power suitable for around-the-clock operation.

The buildings at the World Trade Center site will also benefit from wind power-purchase agreements, with two renewable power developers in upstate New York on behalf of various governmental customers in New York City. Making our buildings green is one of the most important steps we can take to preserve our environment, a message we're driving home at every stage of the World Trade Center project," said Christopher Ward, executive director of the Port Authority.

New York's Renewable Portfolio Standard Program seeks to increase to 25 percent the amount of the state's total electricity generated from renewable technologies such as fuel cells by 2013. This is part of a broad range of efforts under Governor Paterson to bring about transformative changes in the state's energy supplies to reduce greenhouse gas emissions, enhance fuel diversity and energy security and create new industries and jobs.

"NYPA Announces Pivotal Step to Provide Clean Renewable Power For Rebuilt World Trade Center"
Article Written By: New York Power Authority
Connie Cullen, Michael Saltzman
To Read the full article & report, please go to: **NYPA**

Picture to the Right: The future of the World Trade Center View
Source: Inhabitat.com, *"Five Years, Four Towers, Leeds Gold All Around"*

You can follow any link in the Newsletter by holding (CTRL) and clicking on the colored text"

"Self-Development draws you toward your Destiny"

Featured Employer

Donald C. Cook Nuclear Plant

"Bringing comfort to our customers, supporting business and commerce, and building strong communities."

American Electric Power is one of the largest electric utilities in the United States, delivering electricity to more than 5 million customers in 11 states. AEP ranks among the nation's largest generators of electricity, owning nearly 38,000 megawatts of generating capacity in the U.S. AEP also owns the nation's largest electricity transmission system, a nearly 39,000-mile network that includes more 765 kilovolt extra-high voltage transmission lines than all other U.S. transmission systems combined. AEP's transmission system directly or indirectly serves about 10 percent of the electricity demand in the Eastern Interconnection, the interconnected transmission system that covers 38 eastern and central U.S. states and eastern Canada. AEP's utility units operate as AEP Ohio, AEP Texas, Appalachian Power (in Virginia and West Virginia), AEP Appalachian Power (in Tennessee), Indiana Michigan Power, Kentucky Power, Public Service Company of Oklahoma, and Southwestern Electric Power Company (in Arkansas, Louisiana and east Texas). AEP's headquarters are in Columbus, Ohio.

To learn more, visit the following web links: ***AEP.com***

Donald C. Cook Nuclear Generating Station is a nuclear power plant located in the town of Bridgman, MI on a 650 acre site. The plant is owned by **American Electric Power** (AEP) and operated by **Indiana Michigan Power**, an AEP subsidiary. This is currently the company's only nuclear power plant, which has two nuclear reactors. Built at a cost of $1.3 billion, the plant produces enough electricity to meet the needs of a city 1.25 million people

To learn more, visit the following web links: ***CookInfo.com***
To learn more, visit the following web links: ***Indiana Michigan Power***

Together AEP and the Donald C Cook Nuclear Plant are a: A Military Friendly Employer

For five consecutive years, they have been recognized by G.I. Jobs magazine as one of the top most military-friendly employers in the country, and we actively seek veteran candidates who are looking to redeploy the skill sets they acquired in the military to an electric utility setting.

They also appreciate the sacrifices made by their employees who serve in the Reserves and National Guard and support those who are called to active duty in an emergency situation in the following ways:

- AEP will pay the difference between military pay and AEP pay for up to two full years while the employee is on active military duty.
- The employee and his or her qualified dependents can continue participating in most AEP benefit programs, including medical, dental and retirement savings plans, for up to two years, while the employee is on active duty.
- The employee's family members can continue to take advantage of most AEP work/life programs, including financial advisory services, child care referral services and wellness programs, while the employee is on active duty.

"There exist limitless opportunities in every industry. Where there is an open mind, there will always be a Frontier"

Dispatch

FYI (1): Meet the Power-Careers Team

We know that although virtual communications are the standard in our time, sometimes its nice to put a warm face to an email address or name. For this reason, we have created a page on the increasingly trendy social network; MySpace. Now you can come visit us and get to know the faces on the other end of the screen. Please stop by and say hi, add us as a "friend" or simply browse our page.
www.myspace.com/power_careers

FYI (2): Power-Careers.com is an approved career resource by U.S. Navy Transition Assistance Program

Power-Careers.com was recently recognized as a reliable no-cost resource for prior Navy job-seekers to rely upon for assistance in transitioning into the civilian Energy/Power Generation & Manufacturing sectors.

Notification was transmitted globally from Washington, DC that Power-Careers is a reliable venue for prior Navy military members to seek careers beyond the Navy and receive this service for free.

Several New Power Industry Positions Have Recently Been Added To Power-Careers
To View Please Go To ***www.Power-Careers.com***

Energy in Politics: Current Issues

"Report Reveals Substantial State-Level Job Gains from New Nuclear Construction"

A substantial program of new investment in nuclear energy infrastructure will generate peak employment of 350,000 and cumulative GDP of $542 billion over twenty years, according to a report prepared by Oxford Economics for the American Council on Global Nuclear Competitiveness. These benefits will be realized across manufacturing, construction, and host of other economic sectors.

Many of these impacts will to be generated in states according to the expected concentration of the necessary engineering, manufacturing and other skills. Benefits of the investment program are not confined to states which are expected to increase nuclear capacity. Some of the largest benefits are expected to be found in states such as Texas and South Carolina which are assumed in the report to invest heavily in new nuclear capacity. However, states such as California will also see significant benefit due to the supply of key manufactured products.

To Read more of this article, go to: **MarketWatch.com**

Congratulations!

To the following; who have acquired a new career through ***www.Power-Careers.com***

Jacob Lott
Accepted a position as an I&C Technician
with Constellation Energy

Nathan Chapman
Accepted a position as a Work Group Planner
with American Electric Power

Robert Thompson
Accepted a position as a Nuclear Mechanical Technician
with Constellation Energy

Robert Larrabee
Accepted a position as an I&C Technician
with Constellation Energy

Robert Gould
Accepted a position as a Work Group Planner
with American Electric Power