



GEOTHERMAL ENERGY ASSOCIATION

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National News

Renewable Energy Industries Provide Joint Recommendations to New Administration

Leaders from the four major renewable trade associations -- The American Wind Energy Association, Geothermal Energy Association, National Hydropower Association, and Solar Energy Industries Association – issued a joint statement of priorities for the new Administration in Congress. At their November 13 press conference, GEA’s Executive Director, Karl Gawell said, “We have joined together in this statement because we believe expanding renewable energy production can help turn around the economic decline while helping to achieve national security and environmental objectives.”

“The geothermal industry is poised to double, with new projects underway from Florida to Alaska creating nearly 100,000 construction and industry jobs, but we could do much, much more,” Gawell stressed. Together, the trade group leaders called for renewable tax credit adjustments to help the credit work given current economic realities, a national renewable electricity standard, PTC extensions and increased CREBs funding, expanded procurement policies, investment in transmission, action on the Obama energy plans \$150 billion clean energy investment funds, and enactment of cap-and-trade climate legislation that encourages near-term renewable deployment.

“The renewable energy industries need stable, long-term policies,” said Randy Swisher, executive director of AWEA.

Rhone Resch, president of SEIA, said the \$150 billion investment to renewables in Obama’s plan will occur over time, but that it’s important to get a large chunk right at the beginning, specifically for new development.

Resch commented on Obama’s plans to bring a puppy to the White House, saying he hopes the President-Elect will also bring solar panels to top the building and a geothermal heat pump.

The four leaders also sent out a joint statement:

Press Release—November 13, [Renewable Energy Industries Ready To Lead U.S. Economic Recovery, Trade Association Leaders Outline Key Policies Required](#)

The leaders of the American Wind Energy Association, Geothermal Energy Association, National Hydropower Association and Solar Energy Industries Association today released the following statement:

The fast-growing renewable energy sector is poised to help lead the U.S. economic recovery with millions of new jobs and billions of private investment dollars. However, the new Administration and Congress need to take action to ensure that the renewable industries’ growth continues, given the current economic realities.

President-elect Obama has made a commitment to key policies that will spur substantial growth in America's clean renewable energy industries and create millions of new jobs. Building upon these key policies, the renewable energy industries' top priorities for the Obama Administration and the 111th Congress include:

- Immediate Action:

- Adjust renewable energy tax credit policies so incentives work as intended given current economic conditions.

- 111th Congress:

- Adopt a national renewable electricity (portfolio) standard to ensure that at least 10% of electricity consumed in the U.S. is derived from renewable energy sources by 2012, and at least 25% by 2025;
- Approve a minimum five-year extension of the federal renewable energy production tax credit (PTC) and additional funding for the Clean Renewable Energy Bonds (CREBs) program;
- Issue an Executive Order expanding federal procurement of renewable energy generation to meet the government's substantial energy supply needs;
- Launch a major initiative to support investment in our nation's interstate electrical grid infrastructure and smart-grid technology to deliver green energy from areas with renewable resources to population centers and to support distributed power generation;
- Invest \$30 billion in 2009 for financing options that support new project development and installations for all renewable energy technologies as part of the Administration's commitment to investment of \$150 billion over the next ten years in clean energy technologies;
- Adopt a cap-and-trade regime to reduce greenhouse gas emissions that rewards production of clean renewable energy.

If the Administration and Congress can quickly implement these policies, renewable energy growth will help turn around the economic decline while at the same time addressing some of our most pressing national security and environmental problems. Expansion of renewable energy production will mean billions of dollars in economic growth, millions of new jobs, enhanced energy security as we increase domestic energy production, and critically important progress in reducing greenhouse gas emissions.

2008 Geothermal Conference/Expo Breaks Previous Records, 2009 Event Announced

GEA has distributed a new press release:

Attendance at the Geothermal Energy 2008 Conference and Expo broke previous attendance records, with visitors up 80% over 2007, according to the Geothermal Energy Association. Geothermal Energy 2008 was held in Reno, Nevada, from October 6 through the 8th. According to GEA 1,800 people visited the Expo Hall, up over 800 from the 2007 event.

With a steady increase in number of geothermal projects under development, GEA is looking ahead to an even stronger program next year. "In January 2006, The Western Governors Association's Geothermal Task Force projected 15,000 MW of geothermal power on-line by 2025; at the current pace, geothermal production could exceed this estimate," according to Karl Gawell, GEA's Executive Director.

Congress has extended the federal production tax credit for new geothermal projects through 2010. Together federal tax credits and requirements at the state level for increased renewable power are spurring rapid expansion of the geothermal industry, according to GEA. "Geothermal energy is a bright spot in the economy, and the Expo is the meeting place for everyone interested in this exciting industry," noted Kathy Kent, GEA's Marketing Director.

Over 78 companies exhibited at the 2008 Expo, involving a wide range of companies. Major Expo sponsors were Ormat, UTC Power, Chevron, Glitnir Bank, Geothermal Development Associations, Stoel Rives LLP, Jacobs and Company Securities, and McDonald Carano and Wilson, Terra Caliente, Dundee Securities, Vulcan Power, and U.S. Geothermal. In addition to the sponsors, speakers in the Expo hall included Google, Enel North America, and New Energy Finance.

The 2009 Geothermal Energy Conference and Expo will be held once again in Reno on October 4–7, 2009. Information about the event will be posted on GEA's web site at www.geo-energry.org in the near future. Meanwhile, to be added to the participant list or to receive priority emails about the event, email Kathy Kent, Kathy@geo-energy.org.

On the final day of the Expo, GEA awarded prizes to what were voted as the best exhibits:

- TNG Energy Services for Best in Show Creative Giveaway at Booth
- STORK H&E Turbo Blading for Best in Show Small Booth
- Geysir Green Energy/ENEX, for Best in Show Large Booth
- ThermaSource, for Best in Show Audience Choice (see photo)



Obama Advisor Attends Environmental Conference to Assure Swift Action on Climate Change

From Sustainable Energy Coalition/SUN DAY Campaign, [Obama Signals Radical Break with Bush on U.S. Environmental Policy](#)

Barack Obama sent a strong signal today that he intends to make a decisive break with George Bush on environmental policy once he moves into the White House. The president-elect sent Jason Grumet, a policy adviser who has been mentioned as a possible energy post, to an environmental conference in Washington to offer reassurances that there would be swift movement on climate change legislation. "The whole transition team felt it important to be here," Grumet said. "I think it is going to be a very very busy 2009, and I think we are going to need all of you to be on top of your game." However, Grumet did not offer policy specifics. Grumet's brief appearance was widely seen as a signal that Obama, who campaigned for nearly two years warning of a "planet in peril," was serious about following through on a 30-point environmental agenda that called for creating green jobs, cutting U.S. oil consumption and moving to renewable sources of energy.

See <http://www.guardian.co.uk/world/2008/nov/12/barackobama-obama-white-house-environment>.

Congressional Leaders Speculate on Timing for Climate Change Legislation

From Sustainable Energy Coalition/SUN DAY Campaign, [U.S. Senator Bingaman Says Global Warming on Congress' Back Burner](#):

Congress will not act until 2010 on a bill to limit the heat-trapping gases blamed for global warming despite President-elect Obama's declaration that he will move quickly to address climate change, predicts U.S. Senator Jeff Bingaman, D-N.M., the chairman of the Senate Energy Committee. The economic crisis, the transition to a new administration, and the complexity of setting up a nationwide market for carbon pollution permits preclude acting in 2009. Instead, he said, Congress is "ready to go" early next year on legislation to boost energy savings in buildings and transportation and to require utilities to produce more electricity from renewable sources like windmills and solar panels. However, Senator Barbara Boxer (D-CA), chair of the Senate Environment and Public Works Committee, said: "I believe there will be major action on energy independence [next year], which includes climate change." And a spokesman for House Speaker Nancy Pelosi declined to rule out congressional action in 2009 on climate change but added that it will require "a significant amount of time to reach bipartisan consensus."

See <http://www.iht.com/articles/ap/2008/11/12/america/Global-Warming.php>.

Company News

ElectraTherm: Popular Science Honors Company for “Best of What’s New”

Press Release Highlights—November 12, [ElectraTherm Receives Popular Science "Best of What's New" Award for Heat to Power Innovation, Cleantech Energy Pioneer Receives Recognition in Green Tech Category](#)

ElectraTherm, Inc. (www.electratherm.com) today announced the editors of Popular Science have named the ElectraTherm Green Machine one of the top technology innovations of 2008. As a winner of a Best of What's New Award in the Green Tech category, the ElectraTherm Green Machine stands out as the first commercially viable generator to make electricity from low temperature, residual industrial heat that has, until now, gone to waste.

"After four years of research and development, we are thrilled to bring the ElectraTherm Green Machine to market, and pleased to see this ground-breaking technology recognized by Popular Science Magazine," says Richard Langson, CEO of ElectraTherm. "Our technology takes heat and pressure, and turns it into usable power. We believe this clean, green, economic energy solution will have far-reaching impact on industries worldwide."

Using patented heat and pressure recovery technology, ElectraTherm employs its proprietary twin-screw expander to generate fuel-free, emissions-free electricity at the lowest operating costs and fastest paybacks in the industry. Texas distributor Gulf Coast Green Energy installed the first commercial 50kW ElectraTherm Green Machine this summer at Southern Methodist University in Dallas. The machine has exceeded its 50kW output rating by 20%, garnering positive reviews from SMU's world renowned Geothermal Laboratory.

Each year, the editors of Popular Science review thousands of products in search of the top 100 tech innovations of the year.

To read about ElectraTherm and their innovative power systems in Popular Science, visit <http://www.popsci.com/bown/2008/product/electratherm-green-machine> For more information about the ElectraTherm Green Machine, visit <http://www.electratherm.com/products.html>.

Raser Technologies: Third Quarter Financial Results Announced

Press Release Highlights—November 13, [Raser Technologies, Inc. Announces Third Quarter Financial Results](#)

Raser Technologies, Inc. an environmentally focused technology licensing and development Company, today announced financial results for the third quarter ended September 30, 2008 and provided an update on its progress in executing its strategic business plan.

Revenue for the third quarter was \$30,000 compared to \$49,887 for the third quarter of 2007. Revenues for the 2008 period were generated from a waste heat recovery study we completed for a customer.

Total operating expenses were \$6.7 million, including \$0.9 million of non-cash compensation expense, in the third quarter of 2008 compared to \$3.6 million in the same period for the prior year.

Revenue for the first nine months ended September 30, 2008 was \$166,423 compared to \$202,212 in the year-ago period. Total operating expenses for the nine months were \$18.8 million, including \$2.6 million of non-cash compensation expense, compared to \$12.0 million in the same period for the prior year.

Raser's cash position at the end of the third quarter of 2008 was \$5.5 million compared to \$5.9 million at December 31, 2007.

Raser completed major construction on its first geothermal power plant in Utah and hosted a ribbon cutting ceremony to announce the completion of major construction on November 6th. In addition, Raser continued development of its other geothermal projects and held a groundbreaking ceremony for the first commercial geothermal power plant to be built in New Mexico, in Hidalgo County.

The Company made progress in its efforts to monetize its geothermal assets and execute its business strategy, including:

Raser completed major construction in record time frame of its 10 MW Thermo geothermal power plant near Beaver, Utah. Raser completed financing for the Thermo plant, expanded its geothermal resources, and continued to make progress in the commercialization efforts of its Symetron family of technologies.

Martin F. Petersen, Raser's Chief Financial Officer commented, "During the third quarter, Raser secured the debt and tax equity financing and subsequently completed major construction of our initial power plant in Beaver County, Utah. We also welcomed Prudential to our financing consortium for our Thermo project. We believe this shows that there continues to be strong interest in our renewable energy projects. Raser is in a unique position in the emerging geothermal industry. With strong financial and strategic partners, vast geothermal assets, modular power generating units and increasing demand for green power, we believe we can turn the promise of geothermal power into the realization of clean, renewable, and profitable energy."

See <http://www.rasertech.com/news.php>.

Raser Technologies: \$20 Million of Common Stock to be Sold Privately

Press Release—November 13, [Raser Announces Agreement for Private Placement Of Shares](#)

Raser Technologies, Inc. announced today that it has entered into an agreement relating to the private placement of \$20 million of its common stock. The shares are being sold to a single institutional accredited investor pursuant to a transaction exempt from the registration requirements of the Securities Act of 1933, as amended.

At the initial closing, scheduled for November 14, 2008, the investor will purchase 2 million shares of Raser's common stock for an aggregate purchase price of \$10 million, or \$5.00 per share, representing a premium of 43% over the closing price of Raser's common stock on November 12, 2008. At a second closing, scheduled for December 12, 2008, the investor will purchase an additional \$10 million of Raser's common stock at a purchase price to be determined pursuant to a formula based on the average daily market prices of Raser's common stock prior to the second closing, plus a premium. Each closing is subject to the satisfaction of certain customary conditions.

In connection with the private placement transactions, Raser has also granted the purchaser a warrant to purchase up to \$20 million of additional shares of Raser's common stock at a price per share equal to the lesser of (i) six dollars (\$6.00) or (ii) a price determined pursuant to a formula based on the average daily market prices of Raser's common stock prior to the exercise of the warrant, less a discount. After a period of nine months, or earlier if certain conditions occur, the investor will have the right to exercise the warrant on a cashless, net settlement basis. The warrant will vest with respect to \$10 million of common stock upon completion of the first closing and the remaining \$10 million will vest upon completion of the second closing. The warrant will have a term of ten years.

Raser estimates that the aggregate net proceeds from the private placement transactions, excluding any potential proceeds associated with the exercise of the warrant, will be approximately \$18.7 million after deducting estimated fees and expenses. Raser intends to use the net proceeds from the private placement to further its geothermal development program and for general corporate purposes.

This press release shall not constitute an offer to sell or the solicitation of an offer to buy securities. The securities and the shares of Raser common stock issuable upon exercise of the securities have not been registered under the Securities Act of 1933 or the securities laws of any other jurisdiction and may not be offered or sold in the U.S. absent registration or an applicable exemption from registration requirements.

See <http://www.rasertech.com/news.php>.

Raser Technologies: Company to Present at Two Upcoming Events

Press Release—November 12, Raser Technologies, Inc. to Present at Imperial Capital's Global Opportunities Conference and Geothermal Finance and Investment Summit

Raser Technologies, Inc. (NYSE Arca:RZ) today announced that Kraig T. Higginson, the Company's Chairman of the Board of Directors, will present at Imperial Capital's Global Opportunities Conference (GOC) at the Hilton New York Hotel at 4:05 PM EST on Tuesday, November 18th.

The Company also announced that Brent M. Cook, Raser's CEO, will be a featured panelist at the 2nd Annual Geothermal Finance and Investment Summit in Palm Springs, California on Wednesday November 19th at 11:00 AM PST.

The presentations will highlight the Company's progress in executing its "Well to Wheels" strategy, including a discussion about Raser's first geothermal power plant constructed in Utah.

Management will be available for one-on-one meetings throughout the day at the Hilton in New York. Interested parties can schedule meetings through Imperial Capital by visiting www.imperial-goc.com online.

See <http://www.rasertech.com/news.php>.

Western GeoPower: \$11M Loan Secured

Press Release—November 10, Western GeoPower Secures \$11 Million Secured Loan Facility

TSX Venture Exchange Trading Symbol: WGP - Western GeoPower Corp., a renewable energy company, today announced that it has entered into a US\$11 million secured loan facility. Under the terms of the loan facility the initial tranche of US\$2,480,000 will be available to the company upon receipt of approval of the TSX Venture Exchange for the issuance of warrants and the payment of certain lending fees and expenses. The second tranche of US\$8,520,000 will be available to the company upon the later of 15 business days following the initial advance having elapsed or the date upon which all conditions precedent to that tranche have been met, including the perfection of security, the discharge of any liens other than permitted liens, payment of certain lending fees and expenses, and that no event of default then exists. Interest will be payable at a rate of 1% for the first six months, 1.25% for the second six months and 1.5% thereafter. The lender will have the right, subject to the prior approval of the TSX Venture Exchange, to elect to receive the payment of interest on the loan in the form of common shares of the company.

As partial consideration for entering into the loan facility, the company has agreed to issue 29,629,629 warrants of the company, each warrant being exercisable for a period of 24 months at a price per warrant of CDN\$0.18. The warrants and underlying shares will be subject to a hold period of four months following their issuance.

The proceeds of the loan may be used for drilling, project management, development cost, plant equipment, and up to US\$300,000 in monthly working capital and general corporate purposes.

The company is proceeding with the loan facility in lieu of completing additional tranches of its CDN\$25 million non-brokered private placement announced August 7, 2008. The company completed CDN\$10.6 million of that non-brokered private placement as announced on October 20, 2008.

Renewable and Climate Change News

International Energy Agency Calls for Energy Revolution Despite Economic Crisis

The International Energy Agency has released the World Energy Outlook 2008 (WEO-2008), an analysis to aid policy-makers around the world in a global energy revolution despite the economic crisis, according to nawindpower.com. The WEO-2008 addresses challenges posed by oil supply, higher energy prices, and greenhouse gas emissions. Primary energy demand will grow by 1.6% per year on average between 2006 and 2030, an increase of 45%. Modern renewables would be the fastest-growing source, becoming the second-largest source of electricity soon after 2010. This calls for investments of over \$1 trillion annually.

"As the IEA makes clear, wind power can deliver substantial cuts in CO₂ emissions in the power sector," Steve Sawyer, Global Wind Energy Council secretary general told press. "With the right political frameworks in place, investors will continue to flock into the sector, and wind energy could save a total of 10,000 million tonnes of CO₂ by 2020. The clear scientific imperative for the climate negotiations due to resume in Poznan and conclude in Copenhagen next year is to come up with an agreement that will see global emissions peak and begin to decline before 2020, and the rapid deployment of wind power globally will be essential to achieving that goal."

See http://www.nawindpower.com/naw/e107_plugins/content/content_lt.php?content.3115.

Forbes Article Hits on Google.org, EGS Technology

An article from Forbes.com talks about Google.org's \$10 million investments in geothermal energy this year and the potential of enhanced geothermal systems (EGS) technology. Google.org is funding research and mapping efforts and a policy agenda.

The cost for EGS would start at about 9 cents a kilowatt-hour for the first project and fall to as little as 4 cents, the article said. This compares with gas at 8 cents, wind at 6 cents, and solar at 31 cents or more. The U.S. Department of Energy is now offering \$90 million in research money for EGS research. It is just a small start, says Alexander Karsner, assistant secretary for energy efficiency and renewable energy at the Department of Energy.

"[EGS is] a big resource, it's got a good cost curve, and it's not getting enough attention," Dan Reicher, Google.org's director of climate and energy initiatives, told Forbes.

An Australian company called Geodynamics is conducting the first major commercial test of EGS now; another major EGS test is underway in Soultz, France. The first test in the U.S. is scheduled to begin this year near Reno, Nev.

The article also points out that traditional geothermal is experiencing its own revival, with investment and development increasing.

See http://www.kivitv.com/Global/story.asp?S=8953203&nav=menu536_1_4.

State News

California: Cal PUC Report Studies Cost of State RPS Target, 33% by 2020

The California Public Utilities Commission said in a report it may cost \$60 billion to expand the renewable power generation a third of the state's electricity by 2020, according to Reuters.com. "Reaching a 33% target will require procurement of more expensive renewables -- preliminary analysis indicates that such a target may require a state investment of about \$60 billion in generation and transmission from 2010 to 2020," the report said.

A 33% target by 2020 would mean 70,000 gigawatt-hours of renewable power. This would require the construction of seven major transmission lines, costing about \$6.4 billion. The plan has the backing of Gov. Arnold Schwarzenegger and is expected to be debated in the next state legislative session.

"The Cal PUC has identified a number of barriers affecting current RPS (renewable portfolio standard) projects, including extension of the federal production tax credits, transmission, developer inexperience, financing, site-control, price, military radar, technology, fuel supply, equipment procurement, and other sources of risk," the report said.

See <http://www.reuters.com/article/email/idUSTRE4A60U020081107>.

Oregon: State Sees Geothermal Development on the Rise

Unsteady cost of fossil fuels, as well as state mandates, are the two major reasons for increased development of geothermal resources in Oregon, according to bizjournals.com. The state Department of Geology and Mineral Industries has issued 15 drilling permits for geothermal electric generation projects this year.

The Renewable Northwest Project, a Portland-based nonprofit, estimates a potential energy supply of 2,600 average MW from geothermal resources across the Northwest — enough to power 2 million homes.

Three major projects in Oregon are underway:

* Davenport Power is working on a second exploratory well at its Newberry Volcano project, 25 miles south of Bend.

* The Oregon Institute of Technology in Klamath Falls will drill a 6,000-foot well to tap 300° underground water as part of a 1.5-MW geothermal system.

* U.S. Geothermal's Neal Hot Springs project, a 9.6-mile site 90 miles northwest of Boise. One well is completed well and more are on the way, awaiting permits from the state.

See

<http://www.bizjournals.com/portland/stories/2008/11/10/story8.html?b=1226293200^1729759&brthrs=1>.

International News

Australia: Geothermal Company Seeks to Supply Northwest Queensland

Clean Energy Australasia wants to build a \$50 million geothermal power station, saying it could supply geothermal power to all of northwest Queensland, according to abc.net.au. It now plans to build a pilot geothermal project at McKinlay. The company's Joe Reichman says the company has applied for federal and state grants and has support from major mining companies in the region, the article states.

See <http://www.abc.net.au/news/stories/2008/11/10/2414830.htm>.

Dominica: \$4M Funding for Geothermal Project Received

The Agence Francaise de Developpment (AFD) and Fonds d' Etudes et de Renforcement des Capacities (FERC) have provided a total of \$4 million Euros for the development of a geothermal project in Wotten Waven, according to dominicanewsonline. Prime Minister Roosevelt Skerrit said island's geothermal resource is expected to be shared between French neighbors, Martinique and Guadeloupe, the article said.

Minister for Public Utilities, Energy, and Ports, Charles Savarin, said geothermal energy could reduce the cost of electricity in Dominica by 50%. This will transform Dominica "from the OECS state the highest unit cost of electricity to the OECS state with the lowest unit cost of electricity," he told press.

See

<http://dominicanewsonline.com/default.asp?sourceid=&smenu=1&twindow=&mad=&sdetail=1028&wpage=1&keyword=&sidate=&ccat=&ccatm=&restate=&restatus=&reoption=&retype=&repmin=&repmax=&rebed=&rebath=&subname=&pform=&sc=2554&hn=dominicanewsonline&he=.com>.

Indonesia: Sarulla Project Awaiting Environmental Impacts Analysis Revisions

Medco Geopower Sarulla presented the analysis of environmental impacts of a geothermal power plant project to regional officials in North Sumatra, according to tempointeractive.com. The article said the analysis was returned to the companies for revision; the Regional Environmental Office requested the companies to include more details on their land use planning.

See <http://www.tempointeractive.com/hg/nasional/2008/11/11/brk,20081111-145363,uk.html>.

Lithuania: Klaipeda Geothermal Plant to Resume Operations

The Klaipeda geothermal power plant is expected to resume operation in mid-November with new heat tariffs, according to Baltic-course.com. It has been closed for about 18 months, during which time German experts determined clogged-up filters needed to be cleaned, requiring additional drilling. According to the Lithuanian Ministry of Economy's director, Ricardas Vaitiekunas, the repairs cost about seven million litas, or two million Euro.

See <http://www.baltic-course.com/eng/energy/?doc=7007>.

Philippines: Envent Provides Update on Biliran Geothermal Development

Press Release Highlights—November 7, [Preparation for Envent's 50 MW Geothermal Power Plant in Leyte, Philippines Progressing Well](#)

The surface exploration on the Biliran geothermal working area is making good progress, Envent Holding Philippines Incorporated announced today.

The surface exploration program is being performed by a group of sub-contractors, including Phoenix Geophysics of Canada and the Philippine geothermal consultancy Fedco. Under the program more than 200 electromagnetic measurements ("TEM" / "MT"), as well as a range of geochemical measurements, will be made on the working area with the purpose of estimating the location and extent of sub-surface steam. Exploration activities and data processing are expected to be complete in March 2009. The exploration program is essentially an extension of a surface exploration and exploration-drilling program the Philippine geothermal power company PNOC-EDC performed in 1982. If the exploration is successful, the substantial data available will form a solid basis for further development and construction of the power plant.

Envent is currently working on several geothermal projects in the Philippines and is committed to contributing to the Philippine government's target of an additional 1,200 MW of renewable energy by 2013.

Envent's associate company Biliran Geothermal Incorporated will execute the upstream part of the project.

Mr. Gudmundur F. Sigurjonsson, President and Chief Executive, Envent, said, "We are pleased with the good progress that the surface exploration program is making. Because of the drilling that PNOC-EDC did in 1982, the data that we will have available at the end of the current exploration program will be much more substantial than is typical in projects of this sort. This will reduce our development risk as well as make the project more attractive to co-developers."

See <http://www.reuters.com/article/pressRelease/idUS281494+07-Nov-2008+MW20081107>.

Philippines: Town Hosting Geothermal Fields to Receive Full Power

Kananga, the town that hosts the Leyte geothermal production field, will be fully supplied with electricity, according to [bworldonline.com](http://www.bworldonline.com). There are 41 sitios remaining to be energized. Leyte provides over 700 MW to the Philippines. Ormoc Mayor Elmer C. Codilla said the Department of Energy has issued a notice to proceed, according to the article. The project will cost P11.5 million.

See <http://www.bworldonline.com/BW111408/content.php?id=077>.

Philippines: GMA Asked to Junk Kalinga Geothermal Project

Indigenous peoples of Lubuagan and Tinglayan say they were not openly consulted on a geothermal service contract that would pass through their ancestral domain. They are calling on President Gloria Macapagal-Arroyo to cancel the contract. Although the people of Pasil gave their consent, the indigenous people did not, and Energy Secretary Angelo C. Reyes unwittingly issued the exploration permit, the article said.

Notices and Employment Opportunities

Great Basin Transmission Opens Bids for Transmission Rights in Idaho, Nevada

Press Release—November 6, [Great Basin Transmission Announces Open Season for the Southwest Intertie Project](#)

Great Basin Transmission, LLC announces today an Open Season to receive proposals for the purchase of long-term point-to-point transmission rights on the Southwest Intertie Project (SWIP). Successful bidders in the Open Season will secure firm transmission rights to support financing of new generation resources and to allow existing generation resources to transport their output to attractive liquid markets in the West.

The SWIP is a proposed above-ground 500 kV AC transmission line stretching over 500 miles between southern Idaho and southern Nevada. As much as 1,850 MW of north-to-south transmission capacity and 1,850 MW of south-to-north transmission capacity will be available for purchase during the Open Season.

The SWIP will provide a new energy pathway connecting the existing high voltage transmission infrastructure near Twin Falls, Idaho and the existing systems in northern Nevada and the Las Vegas area. It will provide direct interconnection and/or viable access to multiple transmission providers in the West which may include Arizona Public Service, Idaho Power, Los Angeles Dept. of Water and Power, Nevada Power (NV Energy), PacifiCorp, Salt River Project, Sierra Pacific Power (NV Energy), Southern California Edison, and Western Area Power Administration.

The SWIP is being developed in phases and is well advanced such that the first phase connecting southern Nevada with northern Nevada is expected to begin construction in 2009 and achieve commercial operation as early as 2010.

GBT is developing the SWIP in response to the growing needs of the Desert Southwest and the Northwest. The SWIP will also provide an important pathway for renewable energy resources to reach major load centers.

GBT will conduct the Open Season in a transparent and nondiscriminatory manner. Entities wishing to secure long-term point-to-point transmission rights on the SWIP may submit proposals for consideration. To ensure a fair and open process, generation affiliates of GBT will not submit proposals in the Open Season. GBT will hold a conference for potential bidders in Las Vegas on November 18, 2008, to provide a description of the SWIP and key information about the Open Season process. GBT staff will be available at the conference to answer questions and receive feedback from potential bidders. The specific time and location details for the conference will be posted on the SWIP Open Season website.

For more details regarding the SWIP and the Open Season please visit the dedicated website at: <http://www.SWIPOS.com>. Any party interested in participating in the Open Season is encouraged to register at the website to ensure they receive all communications related to the Open Season. Questions may be submitted via email at SWIP@SWIPOS.com.

Environmental Hall of Fame to Honor GEA

This month, the Environmental Hall of Fame will honor the Geothermal Energy Association. Karl Gawell, GEA's executive director, will appear in Chicago to accept the award. See details under **Upcoming Events**, this issue.

DOE Announces Open Geothermal Technologies Funding Opportunity

From DOE's Web site:

GTP has issued a Funding Opportunity Announcement (FOA) for up to \$5 million over five years. This work will create and maintain a web-based National Geothermal Database that will help to overcome barriers to the development of conventional and Enhanced Geothermal Systems.

Initial estimated total funding for this award is listed at \$1,300,000 in FY2009; with additional anticipated funds of \$3,700,000 in years FY2010 through FY2013, subject to the availability of Congressional appropriations. DOE anticipates making one award under this announcement.

Geothermal energy has the potential to emerge as a capable alternative to conventional energy resources due to its renewable baseload capabilities, little to no carbon emissions, and affordability relative to other alternative energy technologies. In early 2008, GTP initiated the Geothermal Risk Mitigation Strategies Report ([PDF 778 KB](#)) to analyze the risks involved with geothermal energy development.

The report proposed strategies to overcome barriers to development and to enable additional investment in conventional and enhanced geothermal systems. As a result of this study, GTP is initiating an effort to create the National Geothermal Database to serve as a central repository for all publically accessible geothermal data.

Creating, maintaining, and operation this database is the subject of this FOA, titled National Geothermal Database and you can find further on and requirements for responding to this Geothermal FOA DE-PS36-08GO98020 as part of the DOE [Industry Interactive Procurement System](#).

You can also access and download the complete Announcement DE-PS36-08GO98020 ([PDF 102 KB](#)).

U.S. EPA Calls for Climate Choice Nominations (December 1)

The Climate Protection Partnerships Division of the U.S. Environmental Protection Agency (EPA) invites technology nominations for the Climate Choice recognition. Climate Choice is a voluntary partnership program that recognizes emerging and advanced technologies with the potential to significantly reduce greenhouse gas emissions.

To be considered for Climate Choice recognition, technologies must meet the following criteria:

- Commercially available, but not widely adopted
- Offered by more than one company
- Demonstrated environmental performance
- Likely to significantly reduce greenhouse gases at competitive costs
- Does not unduly increase other forms of pollution in order to reduce greenhouse gas emissions
- The technology is adequately financed and suppliers have an established business record

For further information, visit: www.epa.gov/cppd/climatechoice or contact Kristen Taddonio: 1 (202) 343-9234, Taddonio.Kristen@epa.gov

Employment: Research Associate II, SMU Geothermal Laboratory

Position: The SMU Geothermal Laboratory, Dallas, Texas, has an opening for a Research Associate II for an appointment of 2 years. The research is supported in part by a grant from GOOGLE.org to SMU. The activities associated with the position relate to the temperature field of the U.S. lithosphere. The outcome is the ability to make sound resource related renewable energy decisions. This research will build on the extensive thermal data sets used to produce the 2004 Geothermal Map of North America by collecting new data and modeling the regional thermal structure.

Qualifications: A PhD in geosciences is strongly preferred or an MS in geophysics and 3 years of work experience. Candidates must demonstrate strong analytical/critical thinking skills to identify issues and information requirements, apply appropriate research and analytical procedures, and review data with a strong focus on attention to detail and accuracy.

Apply online at <http://smu.edu/hr/recruit/> search for “geothermal”
Contact: Dr. David Blackwell, blackwel@smu.edu, 214-768-2745

Employment: Geothermal Engineering Analyst, National Renewable Energy Laboratory

Geothermal Engineering Analyst—Requisition #114BR or 115BR—Washington, D.C.

Job/Research Summary: This position performs technology, market and economic analysis, with an emphasis on geothermal energy technology, systems, and infrastructure. Work carried out will support R&D and decision-maker support activities within the Geothermal program through the use of analysis methodologies such as economic feasibility, market transformation, risk, portfolio balance, and cost-versus-benefit. Design novel approaches for systems and infrastructure analysis. Deliver quality products that synthesize the inputs of team members, researchers, market players, and other analysts. Innovate new methods, tools, and approaches that enable greater understanding of geothermal systems.

Job Duties: Combines broad, in-depth knowledge of chemical and/or mechanical engineering with an emphasis on process, heat transfer, and fluids engineering with strong economic analysis capabilities. Performs engineering/economic analyses of geothermal systems and electric transmission in cooperation with research community to gather and understand field data. Documents work in detailed technical memos and internal milestone reports; publishes and presents key results in peer-reviewed journals and at regional, national, and international scientific meetings and conferences. Supports the development of annual

operating plans and assists with strategic planning efforts. Works with Department of Energy on technology goals and opportunities.

Minimum Qualifications: Bachelor's Degree in science and/or engineering, or equivalent/relevant education/experience. 3 years of relevant R&D experience.

Preferred Qualifications: Multidisciplinary research exposure to both chemical and mechanical engineering systems, especially those related to the development of cost-effective geothermal systems for utility-scale applications. Familiarity with value chain analysis, risk analysis, and dynamic modeling. Experience in the development and evaluation of applied technology aimed at entering the marketplace. Previous industry experience in renewable energy and geothermal technologies, with experience in related analysis. Established base of contacts with individuals and institutions relevant to energy analysis. Experience working with the federal government. Some experience with computer modeling of energy markets.

Pre-employment drug testing required.

Please visit our website for more information and to apply online: www.nrel.gov/employment/
NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

Employment: Sales Manager, Ormat Technologies

Ormat Technologies has an immediate opening for a full time Sales Manager located in our Reno, NV. The ideal candidate will 10+ years in related Sales experience in the energy/renewables industry.

Position Title: Manager of Sales, Geothermal Development; Department: Business Development; Location: Corporate Office Reno, NV; Reports to: Director, Geothermal Development; Position Summary: The Manager of Sales, Geothermal Business Development, will be responsible for the sales and marketing of renewable energy products. The selected candidate will help lead the commercialization and sales efforts for Ormat's latest geothermal supply of geothermal plant equipment, electrical power generation projects, as well as the supply of engineering and construction services for 3rd Party power projects.

Essential Functions: Develop detailed sales and marketing strategies to grow sales within the power generation industry; Conduct market segmentation research, identify lead databases and determine sales channels to establish customer opportunities and spearhead direct sales efforts; Manage customer relationship from initial feasibility trials through to field deployment.

Other Responsibilities: Work flexibly within a dynamic, multidisciplinary team.

Education, Experience and Skills Required: Minimum of 10 years experience in a similar position; Bachelor's degree in Marketing or related field or equivalent experience and/or technical qualifications relevant to the geothermal applications, as well as Engineering and Construction; Experience in marketing or application engineering; Experience working directly with customers in a sales organization with strong communication and interpersonal skills.

Physical Requirements: Must be able to travel regularly

To apply for the position please send a resume to Chris@redfishtech.com.

Employment: Engineer V, Geothermal Experience Preferred, Northern California Power Agency

Performs engineering tasks relating to plant reliability/ performance efficiency, primary technical resource for CMMS, supervises implementation of system/equipment repairs/upgrades, PM for plant efficiency upgrade/retrofit projects, construction mgr for public works projects, supervises plant chemical lab & environ, health/safety staff. First 4–6 months, position assigned to NCPA HQ office/Roseville, then GEO Plant, Middletown, CA thereafter. During initial period in Roseville, temp housing provided if required.

Requires BA in electrical/mechanical engineering; MA preferred; and min 10 yrs exp plant/production engineering, preferably within geothermal industry; 2 yrs experience plant reliability/ maintenance engineering & 2 yrs mgmt. exp preferred. Requires knowledge/experience in industry codes/standards; CMMS, Root Cause Failure Analysis, Reliability Centered Condition Based/Mntc, CBM equip; steam turbine plant monitoring & power plant electrical sys; writing, analyzing/interpreting scientific/tech info.; making presentations and some travel in CA. Starting salary: \$96 to \$121K plus exc employer benefits inc CalPERs retirement/medical.

Application at www.ncpa.com, submit to NCPA HR, 651 Commerce Dr., Roseville, CA 95678. Open until filled.

Requests for Proposals (RFPs)

RFP for Small Business Innovation Research and Small Business Technology Transfer, DOE (November 20)

The U.S. Department of Energy requests proposals for Phase I of the Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs. SBIR/STTR seeks to increase private sector commercialization of technology developed through DOE supported R&D, stimulate technological innovation in the private sector, and improve the return on investment from Federally-funded research for economic and social benefits to the nation. Areas of interest include, but are not limited to: Advanced battery electrode development, advanced materials and technologies for cooling and waste heat recovery, energy efficient membranes, technologies related to energy storage for hybrid and plug-in hybrid electric vehicles, energy savings technologies for commodity manufacturing industries, production of biofuels from biomass, advanced water power technology development, wind energy technology development, geothermal technologies, hydrogen, fuel cells, and infrastructure technologies, solar energy, improved motor designs and power electronics, advancements for hybrid and plug-in hybrid electric vehicles, and climate control technology for fossil energy applications. The complete list of topics is posted at: http://www.science.doe.gov/sbir/solicitations/FY%202009/C27_topics.pdf. \$36 million expected to be available, up to 360 awards anticipated.

Responses due 11/20/08. For more info, contact Carl Hebron at sbir-sttr@science.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/9648EC9FBF2AAE36852574C70063CD09?OpenDocument>. Refer to Sol# DE-PS02-08ER08-34. (Grants.gov 9/17/08)

RFP for Environmental Info Exchange, U.S. EPA (November 21)

The U.S. Environmental Protection Agency requests proposals for the Exchange Network Grant Program. The Network is an Internet and standards-based, secure information network that facilitates the electronic sharing, integration, analysis, reporting, and use of environmental data from many different sources. This program provides support to organizations to develop the information technology and information management capabilities needed to actively participate in the Exchange Network. \$11 million expected to be available, up to 50 awards anticipated.

Responses due 11/21/08. For more info, contact Edward Mixon at mixon.edward@epa.gov or go to: <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=42875>. Refer to Sol# EPA-OEI-09-01. (Grants.gov 9/17/08)

RFO for Carbon Offsets, Sacramento Municipal Utility District (mid-December)

From News Release—October 17, [SMUD Releases Request for Offers for Carbon Offsets](#)

The Sacramento Municipal Utility District (SMUD) released a Request for Offers (RFO) for 45,000 tonnes of carbon offsets to be delivered annually beginning in 2010. Proposals will be due mid- December 2008. The carbon offsets will be used to meet customer demand for SMUD's voluntary carbon offset program.

Projects which meet the rigorous standards of the California Climate Action Registry (CCAR) offset protocols will be given first preference. Local projects will be given preference in the project scoring as compared to projects which are located outside the Sacramento region. Projects constructed outside the state of California will not be evaluated in this RFO.

The October 2008 RFO is soliciting offers for carbon offset projects preferably developed according to one of the CCAR-approved protocols which include: dairy manure digesters, landfill gas, forestry and urban forestry, and protocols under development: natural habitat restoration, truck stop electrification, food and woodwaste diversions from landfills, energy efficiency retrofits, new cogeneration, bus fleet upgrades, bus rapid transit lanes and related rode shifting, and N₂O reduction in acid plants.

SMUD will host a Bidders Conference and Carbon Offset Project Development Workshop at SMUD on November 3, 2008 from 9 a.m. to 2 p.m. The Bidders Conference will cover information and questions on submitting proposals to this RFO. The Carbon Offset Project Development Workshop will follow the Bidders Conference at 10 a.m., and will cover the fundamentals of carbon offset project development including accounting protocols, verification and offset registries.

Interested parties can download the RFO documents from SMUD's Electronic Bid Solicitation System (EBSS) Web site at www.bids.smud.org. Registration to the EBSS site is required to access the documents. Registered individuals will also receive updated information regarding this RFO and will also receive notification of future solicitations for purchase of renewable energy resources. For additional information contact: Obadiah Bartholomy, 916-732-6835, obartho@smud.org.

See the entire SMUD news release at http://www.smud.org/en/news/Documents/08archive/10-17-08_carbon_offsets_RFO.pdf.

Request for Renewable Energy, Massachusetts (December 1)

Taunton Municipal Lighting Plant seeks up to 260,000MWh per year of energy and dependable capacity starting in the calendar year 2009 from eligible renewable resources to meet the Massachusetts RPS requirements. Responses due 12/1/08.

For more info, contact Scott Whittemore at Renewables@TMLP.com or go to <http://personal.tmlp.com/tmlpesp/RFP08-01-renewable-resource/>. (Green Power Network 7/28/08)

RFP for Climate Change and Sustainability Conferences, EPA (December 9)

The U.S. Environmental Protection Agency has issued a Broad Agency Announcement for Conferences, Workshops, and/or Meetings. EPA seeks applicants for the planning, arranging, administering and/or conducting of conferences and workshops in areas including, but not limited to: Economics and sustainability; air and global climate change; and technology. \$500K expected to be available, up to 15 awards anticipated. Proposals due 12/9/08.

For more information, contact Bernice Smith at smith.bernicel@epa.gov or go to http://es.epa.gov/ncer/rfa/2008/2008_baa.html. Refer to Sol# EPA-C2008-BAA. (Grants.gov 12/6/07)

RFP for Environmental Fellowships for Undergraduate, U.S. EPA (December 11)

The U.S. Environmental Protection Agency requests proposals for Greater Research Opportunities. GRO provides undergraduate fellowships in environmental fields of study. Areas of interest include, but are not limited to: Green Building Engineering, Environmental Engineering, and Urban and Land Use Planning. \$930K expected to be available, up to 20 awards anticipated.

Responses due 12/11/08. For more info, contact Georgette Boddie at boddie.georgette@epa.gov or go to: http://es.epa.gov/ncer/rfa/2009/2009_gro_undergrad.html. Refer to EPA-F2008U-GRO-(P1-Q2). (Grants.gov 9/5/08)

RFP for Student Design Competition for Sustainability, U.S. EPA (December 23)

The U.S. Environmental Protection Agency requests proposals for the 6th Annual P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet. This program supports science-based designs developed by interdisciplinary student teams that benefit people by improving their quality of life, promote prosperity by developing local economies, and protect the planet by conserving resources and minimizing pollution. P3 seeks to respond to the technical needs of the world while moving towards the goal of sustainability. Areas of interest include: Agriculture, Materials and Chemicals, Energy, Information Technology, Water, and the Built Environment. \$950K expected to be available, up to 50 awards anticipated.

Responses due 12/23/08. For more info, contact Cynthia Nolt-Helms at nolt-helms.cynthia@epa.gov or go to: http://es.epa.gov/ncer/rfa/2009/2009_p3.html. Refer to Sol# EPA-G2009-P3-Q(1-6). (Grants.gov 9/23/08)

RFP for Small Business Technology Transfer, National Science Foundation (February 25)

The National Science Foundation requests proposals for the Small Business Technology Transfer Program (STTR). STTR seeks to stimulate technological innovation in the private sector by strengthening the role of small business concerns in meeting Federal R&D needs, increasing the commercial application of federally supported research results, and fostering and encouraging participation by socially and economically disadvantaged and women-owned small businesses. Areas of interest include: Materials for Sustainability, Bio-inspired Materials and Systems, Smart Materials and Structures, and Nanostructured Materials. \$5 million expected to be available, up to 35 awards anticipated. Letters of Intent are required and are due 1/14/09, final proposals due 2/25/09.

For more info, contact Cheryl Albus at calbus@nsf.gov or go to: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf08608. Refer to Sol# 08-608. (Grants.gov 9/22/08)

RFP for Energy Efficiency, Renewable Energy, and Transmission Technologies, DOE (February 26)

This solicitation announcement (DE-PS01-08LG00001) invites the submission of applications for loan guarantees under Title XVII of the Energy Policy Act of 2005, 22 U.S.C. 16511-16514 ("Title XVII"), from the U.S. Department of Energy in support of debt financing for projects in the U.S. that employ energy efficiency, renewable energy, and advanced transmission and distribution technologies that constitute New or Significantly Improved Technologies. Copies of related regulations may be found at <http://www.lgprogram.energy.gov/>.

DOE is actively promoting projects that fall within the following three general but distinct project type categories: (1) manufacturing projects, (2) stand-alone projects, and (3) large-scale integration projects that may combine multiple eligible renewable energy, energy efficiency and transmission technologies in accordance with a staged development scheme.

The applicant is requested to specify which, if any, of the following project types and technology categories most accurately represents its project: (1) Alternative Fuel Vehicles, (2) Biomass, (3) Efficient Electricity Transmission, Distribution and Storage, (4) Energy Efficient Building Technologies and Applications, (5) Geothermal, (6) Hydrogen and Fuel Cell Technologies, (7) Energy Efficiency Projects, (8) Solar, and (9) Wind and Hydropower.

With questions, email the LGPO at lgprogram@hq.doe.gov. Please include in the subject line "RETDEE Solicitation Question." Completed applications due February 26, 2009 Full announcement can be found at <http://www.lgprogram.energy.gov/keydocs.html>.

Upcoming Events

Geothermal Finance & Investment Summit, November 17–19 (Palm Springs, CA)

A Geothermal Finance & Investment Summit will be held November 17–19 in Palm Springs, California. Developers, investors, lenders, power purchasers, technology experts, legal teams and others involved in geothermal projects are scheduled to participate. Ed Wall, Program Manager of the Geothermal Technologies Program Office at the Department of Energy will be the keynote speaker. More information is available at <http://www.infocastinc.com/index.php/conference/geothermal>.

National Environmental Hall of Fame Inductions, November 20–22 (Chicago, IL)

GEA will be honored next month by the National Environmental Hall of Fame. From their Web site:

The Environmental Hall of Fame will induct over 36 honorees into the National, Illinois and Chicago Environmental Halls of Fame at Hotel Allegro Chicago on November 20-22 during its second awards ceremony. The Hotel Allegro, (171 W. Randolph) across from City Hall, has been rated the greenest hotel in Chicago.

The award recipients will share their vision of how the U.S. can be transformed into a self-sufficient and prosperous renewable energy economy. The mission of the Environmental Hall of Fame is to help recognize and implement solutions of top Environmentalists in order to help reduce global warming, energy costs, pollution and help increase energy independence. Environmental activists Pierce Brosnan and Keely Shaye Brosnan will be honored at the ceremony.

For more information and a list of nominees, visit
http://environmentalfame.com/index.php?option=com_frontpage&Itemid=1.

New Date — Utah Geothermal Lease Sale, BLM, Rescheduled for December 19

The Utah State Office has scheduled a proposed competitive geothermal lease sale on December 19, 2008.

Relevant announcements and forms can be found at
<http://www.blm.gov/ut/st/en/prog/energy/geothermal0.html>.

If you have questions regarding this notice, please call Judy Nordstrom at 801-539-4108; facsimile at 801-539-4200; write to attention at the address on this letterhead; or send electronic mail to judy_nordstrom@blm.gov.

2nd African Rift Geothermal Conference, November 25–29 (Entebbe, Uganda)

The second International Geothermal Conference on the African Rift will be held in Entebbe, Uganda. The conference is designed as a forum for the exchange of information on the African Rift Geothermal Resources and for discussion of the current state of scientific knowledge and understanding of all aspects of exploration and development of geothermal resources, including exploration, field and conversion technology, design and construction, environmental considerations, financial, marketing, and operational aspects.

The Scientific Program of the conference consists of Plenary Lectures, Poster presentations, Workshop and Field Trips. The following will be the themes for oral and poster sessions: (1) Exploration: Geology, Geophysics, Geochemistry, and Hydrology, (2) Drilling and well design: Shallow and deep, Production and Injection, (3) Field development, Production Technology, Power generation & Operation, (4) Reservoir Engineering: Well Testing, Injection, and Modeling, (5) Case Histories, (6) Economics and Financing, (7) Environmental, Social, Legal and Institutional Aspects, and (8) Direct Use: Agri- and aquaculture, Mineral extraction, Manufacturing, Air conditioning.

For more information and to register, contact Department of Geological Survey and Mines, Plot 21–29, Johnstone Road, P.O Box 9, Entebbe, Uganda. Phone: +256 712 812231, +256 712 835843, +256 773 129941. Fax: +256 414 320364. E-mail: argoC2@minerals.go.ug or bahati@minerals.go.ug.

34th Stanford Geothermal Workshop, February 9-11, 2009 (Stanford, CA)

This workshop will bring together Engineers, Scientists and Managers involved in geothermal reservoir studies and developments; provide a forum for the exchange of ideas on the exploration, development and use of geothermal resources; and enable prompt and open reporting of progress.

Papers will be presented on recent research relating to geothermal reservoirs including:

- * Case Studies: reservoir response to production, effects of injection, scaling characteristics
- * Enhanced Geothermal Systems (EGS): current and future activities
- * Engineering Techniques: reservoir simulation, empirical methods, well tests, tracers
- * Field Management: strategies for exploitation, injection, scale inhibition
- * Exploration: geophysics, geochemistry, geology, heat flow studies, outflows
- * Drilling and Well Bore Flows: well stimulation, bore flow modeling, hydro-fracturing, scaling
- * Low Enthalpy Systems: applications of heat pumps, hot dry rock technology
- * Geosciences: application of geophysics, geochemistry, thermodynamics and fluid mechanics.

For more information such as abstract submission, last year's workshop format, and more, visit <http://pangea.stanford.edu/ERE/research/geoth/conference/workshop.html>.

Featured Event: Renewable Energy World Conference and Expo North America 2009, March 10–12, 2009 (Las Vegas, NV)

North America's Premier Renewable Energy Conference & Expo Is Now in its 6th Year!

The Renewable Energy World Conference & Expo North America (formerly POWER-GEN Renewable Energy & Fuels) has a proven track record—now in its 6th year—as renewable energy's leading conference. It offers a worldwide audience who will hear papers, panel discussions and presentations during technical sessions related to technology, markets, business strategies and policy covering the wind, solar, biomass, hydro, geothermal, ocean/tidal/wave, bio-power, bio-fuels hydrogen and energy sectors. There has never been a better time to be a part of the exciting, ever-growing world of renewable energy!

Connecting 5,000 renewable energy power professionals with 300 exhibitors for three days of networking, new business negotiation, and the exchange of important ideas and information impacting the renewable energy industry today.

REenergize with new technologies, new companies, new strategies and new views!

The Geothermal Energy Association will be cosponsoring this event, with panels on geothermal energy soon to come. For more information and to register, visit <http://rewna09.events.pennnet.com/fl/>.

Canadian Geothermal Energy Association Conference and AGM, April 16–17, 2009, (Vancouver, B.C.)

Canadian Geothermal Energy Association Workshop, Conference and AGM, April 15–17, 2009, (Vancouver, BC)

The Canadian Geothermal Energy Association (CanGEA) announces their Workshop, Tradeshow, Conference and AGM on April 15–17, 2009 in Vancouver, BC.

CanGEA also announces that its 2009 membership drive has begun. CanGEA welcomes all members interested in advancing the development of Canada's vast resources. In addition, members receive premium benefits on one of the world's most popular geothermal websites.

Visit the Web site for information: <http://www.cangea.ca/>.



GEA Update

A newsletter for GEA Members written by Leslie Blodgett and Karl Gawell.
For more information contact GEA at: 209 Pennsylvania Avenue SE, Washington, D.C. 20003. Phone: 202-454-5261; Fax: 202-454-5265; E-mail: research@geo-energy.org