



GEO THERMAL ENERGY ASSOCIATION

209 Pennsylvania Avenue SE, Washington, D.C. 20003
Phone: (202) 454-5261 Fax: (202) 454-5265
www.geo-energy.org

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National News

Sen. Boxer Outlines Global Warming Action Plan

Sen. Barbara Boxer (D-Calif.) announced steps to be taken in addressing global warming, according to epw.senate.gov. She will introduce new legislation, hold a first hearing immediately when Congress returns to session, and participate in the United Nations Climate Change Conference.

“I believe strongly that when we address the threat of unchecked global warming by investing in clean energy technologies and reducing our dependence on foreign oil, we also have a recipe for economic recovery,” she said in a prepared statement. “The time to start is now, and my colleagues and I are here to step up to President-elect Obama's call to action to address global warming and create millions of green jobs in America.”

The first piece of legislation will be a grant program to reduce global warming emissions under the Clean Air Act. It will be an economic stimulus with up to \$15 billion a year available for innovations in clean energy. The second piece of legislation will direct the Environmental Protection Agency to set up a cap and trade system for greenhouse gases.

The first hearing in the 111th Congress will be entitled, "How Fighting Global Warming is Good for the Economy and Will Create Jobs." And finally, the Senate Environment and Public Works Committee will be represented next month at the United Nations Climate Change Conference in Poznan, Poland.

See

http://epw.senate.gov/public/index.cfm?FuseAction=Majority.PressReleases&ContentRecord_id=bb28fac6-802a-23ad-475a-fd8b6f1152b8&Designation=Majority.

Waxman Wins Energy and Commerce Chairman Challenge

Rep. Henry Waxman (D-Calif.) defeated the current House Energy and Commerce Committee chairman, John Dingell (D-Mich.), in a 137-122 secret ballot vote, and is set to take the position beginning with the next Congress in January, according to rttnews.com. He'll now have to work to bring together the divided caucus, the article said. Waxman's record suggests he will pursue pollution cleanup for industrial sectors and set aggressive limits for greenhouse gas emissions.

See <http://www.rtnnews.com/ArticleView.aspx?Id=781789>.

BLM Preparing for Geothermal Lease Sale, Parcels in Utah, Idaho, and Oregon

From BLM, [BLM Offers Geothermal Leases in Utah, Idaho, and Oregon](#)

The Bureau of Land Management (BLM) announced in early November that it will hold a competitive lease sale for geothermal energy development on 61 parcels totaling nearly 200,000 acres in the states of Utah, Oregon, and Idaho. The lease sale will be held in Salt Lake City, Utah, on December 19 and will include 47 parcels in western and southwestern Utah, totaling 146,339 acres; 11 parcels in Oregon, totaling 41,362 acres; and 3 parcels in south central Idaho, totaling 8,676 acres. The lease sale targets three states that have significant geothermal energy resources but have seen limited development so far: to date, Utah has only two geothermal power plants, Idaho has one, and Oregon has none. See the BLM press release and Web page on the Utah parcels, the BLM notices on the parcels in Oregon (PDF 297 KB) and Idaho (PDF 44 KB), the Geothermal Energy Association's list of geothermal power plants, and the state profiles from DOE's GeoPowering the West initiative.

See http://www.blm.gov/ut/st/en/prog/energy/geothermal0/december_2008_geothermal0.2.html, http://www.blm.gov/or/energy/geothermal/files/notice_121908.pdf, and <http://www.blm.gov/pgdata/etc/medialib/blm/id/energy/geothermal.Par.61886.File.dat/Geo.Sale.Notice-Idaho.12-08.pdf>.

Company News

Nevada Geothermal Power: Project Faulkner 1 Power Sold to NV Energy

Press Release—November 24, [Nevada Geothermal Power Inc. Signs Amended Power Purchase Agreement with NV Energy to Sell All Electricity Generated at the 50 MW Faulkner 1 Geothermal Plant](#)

Nevada Geothermal Power Inc. (NGP) (TSX-V: NGP, OTC-BB: NGLPF) today announced that its subsidiary, NGP Blue Mountain I LLC (Blue Mountain), has signed an amendment to the existing 20-year power purchase agreement (PPA) with Nevada Power Company, doing business as NV Energy, for the sale of all energy to be produced by the expanded 'Faulkner I' power plant at Blue Mountain, Nevada. The plant, currently under construction, is expected to come on line by the end of 2009 with a total capacity of 50 MW (gross) or up to 40.1 MW net delivered to the grid, after accounting for the power station load.

The existing 20-year PPA was approved on February 8, 2007 by the Public Utilities Commission of Nevada (PUCN) for Blue Mountain to supply between 18.75 MW and 31.25 MW (net) of electrical power. The amended agreement stems from a 2007 request for proposal from NV Energy and it is subject to approval by the PUCN.

"The planned power plant increased in size to 50 MW (gross) based on drilling activities over the past year, having determined that the available geothermal resources can support additional capacity. As a result, NGP has negotiated a new price for the total plant output, greatly improving the economics at the Blue Mountain 'Faulkner I' geothermal project," stated Brian Fairbank, President and CEO of Nevada Geothermal Power Inc.

NGP expects to sell approximately US\$530 million of electricity during the 20-year life of the amended contract. The 'Faulkner I' project will benefit from the recent extension of the Production Tax Credit (PTC) to January 1, 2011, qualifying for a credit of US\$21.00 per MWh over the full ten-year term of the PTC.

"Renewable resources are an integral part of our energy supply strategy," said Tom Fair, renewable energy executive, NV Energy. "We are currently involved in more than 30 renewable energy projects in Nevada, and the increase in size for the Faulkner I plant will be a welcome near term addition to our renewable generation mix."

See <http://www.marketwatch.com/news/story/Nevada-Geothermal-Power-Inc-Signs/story.aspx?guid={BC80BFAA-8FE8-482B-A7A6-6C0E04EDCECE}>.

Ormat: *Jerusalem Post* Features Company's Business Model, Growth

An article in *The Jerusalem Post* talks about Ormat's beginnings and their current status as one of the leading companies in geothermal power. Ormat was recently named one of the Tel Aviv Stock Exchange's five leading companies, the article said. Dita Bronicki serves as Chief Executive Officer of both Ormat Industries, which is traded on the Tel Aviv Stock Exchange, and Ormat Technologies, a subsidiary traded on the New York Stock Exchange.

Ormat uses a vertical integration business model, fully involved in all steps of the process. Three quarters of Ormat's revenue is from power plants which it owns. The other quarter of Ormat's revenue segment is manufacturing. Their plants are operated on power-purchase agreements, guaranteeing Ormat a secure cash-flow stream for operation and for future growth.

Ormat has 392 MW of geothermal and 22 MW of recovered energy under operation, the article said. It has approximately 160 MW of capacity under construction and between 200 and 250 MW under exploration and development. These are planned to come on-line in the next 4 years.

The recent drawback of fossil fuel prices from previous highs is not a concern, Bronicki told press. "Even at \$60—or even \$50—renewable energy is competitive without the incentives," she said, adding, "If oil would go down to \$12 a barrel, like it did in the late 90's, then the price might outweigh the environmental concerns for some."

See <http://www.jpost.com/servlet/Satellite?cid=1226404741853&pagename=JPost%2FJPArticle%2FShowFull>.

Sierra Geothermal Power: Reese River Updated, Company Seeking Partners

Press Release Highlights—November 17, [Sierra Geothermal Power Completes 100% Earn-In at Reese River](#)

Canadian Venture listed Sierra Geothermal Power Corporation (TSX.V: SRA), is focused on geothermal exploration and development in North America and currently holds geothermal leases, or options to leases, on 17 different properties in Nevada and California. Spanning over more than 88,000 acres (880 sq km), these leases have a potential generation capacity of more than 400 MW of power.

SRA has just completed 100% earn-in at Reese River geothermal power project in Nevada from Western Geothermal. SRA has met various thresholds of option payments and work program expenditures totaling US\$5,250,000. SRA also has the option to buy out Western Geothermal's one percent (1%) gross royalty. The Reese River geothermal target has been independently rated as one of the top undeveloped geothermal prospects in Nevada.

In an independent report, GeothermEx Inc. doubled Reese River resource estimate to a 90% probability of generating at least 26 megawatts (net) (MW) for 20 years and a 50% probability of supporting a plant of at least 58 MW. The most recent drill results from Reese River include 5 temperature gradient wells. Drilled to depths between 488 meters (1,600 feet) and 1,500 meters (5,000 feet), the bottom-hole temperatures recorded between 96 and 150 degrees Celsius (194 - 302 degrees Fahrenheit).

Given the current financial turmoil, SRA has changed its corporate strategy. The company is aggressively seeking partners to develop its Tier 1 properties and has received significant interest. The management is aware of SRA's current low valuation and is exploring all strategic alternatives to maximize shareholder value. The company however is not cash strapped and currently has over \$4 million with no debt. This is sufficient to finance its development endeavors including exploration (non-drilling) and permitting work on its properties.

The cash reserve as well as its large pipeline of projects forms the competitive advantage of SRA over its peers. The company's top five projects have a combined resource capacity of approximately 150 MW at the 90% confidence level and 320 MW at the 50% confidence level, enough to power approximately 120,000 to 250,000 homes. Total combined estimated resource capacity in the pipeline is 500 MW.

See <http://www.proactiveinvestors.com/companies/news/619/sierra-geothermal-power-completes-100-earn-in-at-reese-river-0619.html>.

Renewable and Climate Change News

American Wind Energy Association Announces New CEO

Press Release—November 14, [Denise Bode To Become Chief Executive Officer Of American Wind Energy Association](#)

The American Wind Energy Association (AWEA) today announced the appointment of Denise Bode as its new CEO, effective January 2, 2009.

Bode will succeed Randall S. Swisher, who is retiring after a 19-year stint with AWEA.

Bode, who is currently CEO of the American Clean Skies Foundation, is a nationally recognized energy policy expert and served for nine years on the Oklahoma Corporation Commission. Her experience in the energy field is extensive and includes seven years as President of the Independent Petroleum Association of America (IPAA) and nine years on the staff of then-U.S. Senator David Boren (D-OK) as his legal counsel, focusing on the areas of energy and taxation.

“Denise Bode is an extremely dynamic and well-respected leader on energy issues in Washington, D.C.,” said Swisher, “and brings a wealth of knowledge and experience to AWEA. We are very fortunate to have such a talented and able individual available to lead the Association at a time when renewable energy stands on the threshold of dramatically expanding its contribution to America's energy supply.”

“We were very lucky to have Denise's leadership to get ACSF established as a real player in the debate on energy and the environment,” said Aubrey K McClendon, Chairman and Founder of the American Clean Skies Foundation.

“I am thrilled by my new opportunity of working with the AWEA team to grow wind power in the U.S.,” Bode said. “I am particularly proud of the role I played as Oklahoma Corporation Commissioner to bring commercial wind power to Oklahoma.”

See http://www.awea.org/newsroom/releases/AWEA_CEO_14Nov08.html.

Greenpeace Outlines Climate/Economy Rescue Plan

Greenpeace, along with colleague groups, have announced a call for a planetary rescue package to create jobs, rebuild the economy, and protect the climate, according to their Web site. Programs related to this effort could create 4.1 million new jobs nationwide over the next few decades. Greenpeace has outlined key

policy measures to address the threat that the climate risk is greater than the financial risk, with global warming causing a 2% drag on the global economy that could reach 20% by 2050.

A recent news release on their site outlines a plan for action, with links to supporting reports and information.

1. Increase research and development spending on clean energy and energy efficiency.
2. Quitting coal; a step-by-step plan can retire 30% of the world's power plants and replace them with a mix of clean energy technologies and efficiency programs by 2020.
3. Taxpayers can no longer afford to underwrite the cost of dirty, dangerous and prohibitively expensive technologies
4. Bring the nation's power grid into the 21st century. Our power grid is outmoded, overloaded, and unable to provide the country the clean energy it needs now.
5. Create a "forests for climate" fund; investments of \$30-40 billion per year would nearly end deforestation by 2015.

See <http://www.greenpeace.org/usa/press-center/releases2/briefing-saving-the-economy-b> and http://us.greenpeace.org/site/DocServer/PHS_platform.pdf?docID=181.

Utility Customers in Northwest Choose Renewable Energy Option

Press Release—November 17, [Report Shows Nearly 150,000 Customers Voluntarily Purchasing Renewable Energy in the Pacific Northwest](#)

The number of utility customers purchasing “green power” in the Northwest is now nearly 150,000, according to a new report released today by the Renewable Northwest Project (RNP). Entitled “Powerful Choices VIII,” the report summarizes the retail green power programs that are allowing customers to voluntarily invest directly in a clean energy future.

Throughout the Northwest, in markets both urban and rural, thirty-nine Northwest utilities are offering customers a choice of an environmentally preferred power source—wind power, solar power, landfill gas power, or low-impact hydropower. Participation in these programs continued to increase in 2007, with overall participation in Northwest green power programs growing by 23.5% between 2006 and 2007.

Voluntary retail green power purchases help to push the market for the construction of new renewable energy projects forward. Since the last report released in 2007, Northwest green power customers purchased over 1.3 billion kilowatt-hours of green power—the equivalent of the annual output from a large 450-MW wind farm, or enough energy to power more than 111,000 homes for an entire year. This is over 56 times the retail green power sold in voluntary programs reported in the first Powerful Choices report in 2000.

“The continued increase in the number of green power program customers in the Northwest demonstrates a strong and consistently growing demand for environmentally-friendly power sources, and a greater awareness of the benefits of renewables,” said Rachel Shimshak, director of RNP, a regional renewable energy advocacy organization. “Along with utility investments in renewables, customers are using their ‘Powerful Choices’ to help create a clean energy future,” she added.

Since the last report, the number of customers buying green power has made significant strides. Over 24,000 additional customers have signed up for green power, bringing the Northwest total to 148,563 residential and commercial customers. Increased general awareness of the benefits of buying green power and more innovative outreach approaches have contributed to higher sales and customer participation.

The report, in its seventh year, also includes:

- Relevant green power legislation in the Northwest

- Changes in green power programs since the last Powerful Choices report
- Discussion of recent trends in Northwest green power programs
- Brief recommendations on customer participation in Northwest green power programs
- Summary charts of 2007 participation rates and kWh sales
- Snapshot summaries of each Northwest green power program
- Contact information
- Additional sources of information

In response to the new developments in retail green power, Ms. Shimshak went on to say: “Increased development of the Northwest’s home-grown renewable power resource will help to insulate Northwest customers from future electricity price volatility. In addition, rising concern over the impacts of conventional power generation on our climate, our environment, and our health is prompting a surge of interest in clean, climate-neutral, renewable power.”

See the *Powerful Choices* report from this year and previous years at www.RNP.org.

Articles on Geothermal Energy: General Information

An article on geothermal energy at [cbn.com](http://www.cbn.com) explains how the natural features at Yellowstone National Park are used elsewhere to create an energy source. David Blackwell of Southern Methodist University’s Geothermal Lab is quoted extensively in the article, and SMU’s geothermal projects are discussed. Geothermal heat pumps are explained as well.

See <http://www.cbn.com/cbnnews/481228.aspx>.

An article on [commodityonline.com](http://www.commodityonline.com) provides an interview with John McIlveen, a securities analyst specializing in renewable power who recently joined Jacob & Company. He answers questions about benefits of geothermal power, where it’s heading, how it compares to other energy sources, investment opportunities, and about geothermal companies.

See <http://www.commodityonline.com/news/Geothermal-power-is-clean-energy-12856-3-1.html>.

State News

California: Governor Identifies Grid Shortfalls in Addressing Renewables

Governor Schwarzenegger Identifies Electricity Grid Shortfalls as Key to Meeting Renewable Energy and Climate Change Goals ~ by John McCaull, GEA Western States Representative

November 24, 2008. On November 17th, Governor Schwarzenegger signed [Executive Order S-14-08](#). As California creeps up on a 2010 mandate that retail sellers of electricity serve 20% of their demand with renewable energy, and as unemployment and layoff numbers keep rising, there was a clear sense of urgency in the air. The Governor’s event was held at the OptiSolar thin film PV manufacturing plant on the outskirts of Sacramento. Surrounded by employees in hard hats, the Governor touted the emerging “green and clean economy of California” while saying, “I want to ... prove to the world that you can protect the economy and the environment at the same time, and we’ve got to go and push and do everything we can to create these renewables.”

When Governor Schwarzenegger signed [AB 32](#) in 2006, he committed the state to very ambitious greenhouse gas reduction mandates and just-as-ambitious implementation timelines to approve an overall climate change strategy and regulatory program (contained in the [AB 32 Scoping Plan](#)). The statutory deadline for approving and finalizing the Scoping Plan is December 2008. Even prior to the passage of AB 32, California (and other states) had established “[renewable portfolio standards \(RPS\)](#),” mandating the purchase of various percentages of renewable sources of energy by retail electricity providers.

In 2002, the justifications for California's renewable energy development program were numerous (i.e., "increasing the diversity, reliability, public health, and environmental benefits of the energy mix..."). However, in 2008 the reasoning for boosting renewable energy development has come into sharper focus: climate change and jobs. Can California dramatically increase the deployment and use of geothermal, solar, and wind power technologies to combat global warming? And can California retool its economy on the back of a "green" economic development strategy?

So what is the "push" that needs to happen? Going back to mid-summer, it was clear the Governor wanted to turn up the heat on California's RPS program. Various 2008 legislative proposals looked beyond 2010, proposing a statutory mandate to reach a 33% RPS procurement goal by 2020. S-14-08 was drafted to give a public relations and programmatic boost to the renewable energy market and to the success of the AB 32 Scoping Plan.

As the Governor's fact sheet indicates, the Order "re-establishes California's already ambitious Renewable Portfolio Standard (RPS) at a new nation-leading level and calls for a restructuring of the process of developing renewable energy sites to make it easier to achieve our renewable goals." S-14-08 can't change the RPS statute, so Governor Schwarzenegger was flanked by a bipartisan group of legislators who intend to introduce legislation in 2009 making much of the Executive Order — and in particular the 33% procurement target for all retail providers — into law early next year. As incoming Senate President Darrell Steinberg said, "Let's get this passed in the first 90 days of the session."

Beyond the RPS expansion, the Governor Executive Order ultimately focuses on the here and now. In other words, before we get to 2020, we need to get to 2010. As the California Public Utilities Commission noted in its [October 2008 RPS Report to the Legislature](#), California's three large independently owned utilities were collectively serving only 12.7% of their 2007 retail electricity sales with renewable power. It appears that these utilities may be closer to their goal by the end of 2008, but it is not clear if PG&E, Southern California Edison, or San Diego Gas & Electric are going to make the 20% mark by 2010. What has prevented the IOU's from purchasing more renewable power? There are a variety of answers, but a year's worth of questioning by the Legislature and state agencies led to one, overarching conclusion: there are substantial barriers to generation siting, permitting, and transmission that have to be addressed to provide reliable access to the areas where the renewable energy can be produced at a large scale.

In response to this market and administrative quagmire, Executive Order S-14-08 cannot be criticized for lacking in specificity. The Order is most clearly directed at the Governor's own administration and state agencies. In part, the Order directs the following actions:

1. The California Energy Commission (CEC) and California Department of Fish and Game (DFG) will sign a pair of MOUs, one between themselves and another with federal agencies, to streamline the renewable review process.
 - The CEC and DFG will sign an MOU aimed at cutting permit processing times for specific renewable energy sites in half, creating a Renewable Energy Action Team (REAT) and "one-stop" permitting process.
 - Instead of filing multiple sequential applications, the DFG and CEC shall create a concurrent application review process, which shall be filed directly at the state level.
 - CEC and DFG will also sign an MOU with the U.S. Bureau of Land Management (BLM) and U.S. Fish and Wildlife Service (USFWS) to increase collaboration and further reduce permitting times.
2. These agencies are also directed to form a "Renewable Energy Action Team" to "immediately begin pinpointing and pre-approving prime renewable energy development sites in one of California's priority renewable areas — the Mojave and Colorado Desert regions."
3. The agencies will develop a Desert Renewable Energy Conservation Plan (DRECP) and subsequent Natural Communities Conservation Plans (NCCPs) focused on other regions, will pinpoint sites that will generate efficient energy with the least harm to the environment. The order goes on to say that

“Future projects proposed in these pre-approved areas will enjoy the streamlined permitting and environmental review process — allowing more renewable energy projects to be built sooner.”

One last part of the puzzle is to help the state “pinpoint” the actual renewable energy zones that hold the most promise for developing large amounts of clean power with minimal environmental impact. This responsibility in 2009 will continue to rely on the state’s [Renewable Energy Transmission Initiative](#). The goal of RETI is to plan transmission line infrastructure to service enough “[competitive renewable energy zones](#)” (CREZ) where it makes environmental and economic sense to approve new renewable energy production technologies so that California can meet its RPS requirements.

For the news release, see <http://gov.ca.gov/index.php?/press-release/11073/>.

International News

International Partnership for Geothermal Technology Completes Web Site

From the EERE Web site, [DOE Announces International Partnership for Geothermal Technology Site](#)

The International Partnership for Geothermal Technology (IPGT) announced the completion of its new International Partnership for Geothermal Technology Web site. The IGPT Charter Agreement was signed on August 28, 2008 by representatives from Australia, Iceland and the United States in Keflavik, Iceland in order to accelerate the development of geothermal technology through international cooperation.

The new Web site will be used to publicize the partnership’s activities and increase the understanding of advanced geothermal technologies such as Enhanced Geothermal Systems (EGS). The partnership encourages a broad range of participation in its projects and encourages interested parties to use the Web site to follow its progress and learn about both ongoing and future projects.

The site will provide a forum for government and industry leaders to coordinate their efforts and collaborate on projects. Partners will share information on results and best practices in order to avoid blind alleys, limit unnecessary duplication, and efficiently accelerate the development of geothermal technologies.

The link to the Web site is http://internationalgeothermal.org/IPGT_Site_08/index.html.

See http://apps1.eere.energy.gov/news/progress_alerts.cfm/pa_id=130.

Australia: Geodynamics Pilot Project to Begin Operations in March

Geodynamics Ltd plans to open operations in March at a 1-MW pilot turbine at the town of Innamincka, according to Bloomberg.com. Once the pilot project is proven, it would then be expanded into a 50-MW plant.

The company hopes to deliver 500 MW of power to the grid by 2015, the article said. Geothermal energy could supply up to 5% of Australia’s power by 2020. Renewable energy will become the second-largest source of electricity soon after 2010, overtaking natural gas, the article quoted the International Energy Agency as saying. Wind, solar, geothermal, tide, and wave energy together could reach 4% by 2030, with hydropower at 14%, it said.

See <http://www.bloomberg.com/apps/news?pid=20601130&sid=aVEaP42s5sBE&refer=environment>.

China: Petratherm Exploration Team Plans Field Trip This Month

Press Release—November 17, [Spain and China Projects Update, Petratherm's China Exploration Team to Undertake Field Trip in China with Chinese Government Institutions and Provincial Representatives](#)

The Company's China exploration team will undertake their third and most important field trip during November 2008 with the assistance of four Chinese government institutions, with which the Company has an exclusive agreement for the provision of geological and geothermal data.

The team, led by Mr Peter Reid, Petratherm's Exploration Manager, will meet with provincial representatives in three target provinces to progress the development of geothermal projects on mainland China.

Recently completed desktop analyses have highlighted good quality geothermal target areas and the focus of the field trip will be gather further information to make final assessment of project selections.

The Company has received great interest in its China ventures from both potential joint venture partners and government (both Chinese and Australia) under the Asia-Pacific Partnership program where the Company has been awarded a \$75,000 grant.

Managing Director, Terry Kallis will be presenting to the PowerGen Conference in Beijing in mid-March 2009 outlining the Company's strategy for China and its assessment of the potential for geothermal energy in China.

See <http://newsstore.smh.com.au/apps/previewDocument.ac?docID=GCA00903535PTR>.

Comoros: Kenya Interested in Karthala Geothermal

At an international symposium on the Karthala Volcano, Dr. Simeo, manager of the KenGen power plant in Kenya, said resources from the volcano in the Comoros are enough to meet the energy needs of the country, according to [afriqueligne.fr](http://www.afriqueligne.fr). Karthala has a 19-MW estimated capacity, which Simeo's company is looking to develop, he told press. The project will require US\$30 million or 10 billion Comoran francs, he said.

See <http://www.afriqueligne.fr/news/africa-news/kenya-to-help-comoros-develop-geothermal-power-2008112116519.html>.

Iceland: Geothermal Energy Provides Answer to Economy Problems

Iceland's extensive use of geothermal energy has uses beyond electricity, according to an article on *Renewable Energy World*. The country is well known for its geothermal energy and works widely with other countries to do the same; now, facing a recession, the country is focusing on geothermal energy more than ever, the article said.

“We have much to offer in know-how and technological support,” says Iceland's President Ólafur Ragnar Grímsson, speaking on the Inside Renewable Energy podcast. “It is important for us to continue to establish relationships with countries that are serious about geothermal. As a leader, Iceland can help in many areas.” He added that the Icelandic government and geothermal businesses work hard to use geothermal in as many ways as possible. “We go beyond just energy. We use it to promote tourism, we use it for health and wellness, we use it for heavy industries and we also use it for educational purposes. This more interactive, holistic approach is much different than we see elsewhere,” he told *REW*.

Albert Albertsson, Deputy CEO of Hitaveita Sudurnesja, the owner and operator of two large geothermal plants in the country, added, "We work very openly. All our research and development is open to the international society — so in that way we contribute a lot to understand better how we can harness this extremely valuable resource."

See the full article and accompanying video at

<http://www.renewableenergyworld.com/rea/news/story?id=54131>; podcast from Iceland, <http://www.renewableenergyworld.com/rea/news/podcast?id=54109>.

New Zealand: Mighty River Opens Kawerau Geothermal Plant

Mighty River Power has opened its 100-MW Kawerau geothermal power station, which began construction in January last year, according to yourrenewablenews.com. The plant will meet the electricity requirements of 100,000 households.

"In association with our Maori partners, we are leading the charge to develop New Zealand's world-class geothermal resources," Chief executive Doug Heffernan told press. Mighty River Power is now active in four geothermal fields, the article said, and announced a \$111m profit in October for the 2007/2008 financial year.

See http://www.yourrenewablenews.com/mighty+river+opens+new+geothermal+plant_16100.html.

New Zealand: Wairakei Plant Celebrates 50 Years

November 15 was the 50 year celebration of the Wairakei Geothermal Power Station, according to voxy.co.nz. Over 55,000 GWh of renewable electricity has been generated there, and the site has employed more than 1,500 people.

"Wairakei may have been the first of its kind to generate electricity from both geothermal steam and water, but it is the technology pioneered at Wairakei 50 years ago that has made New Zealand a world leader in the geothermal industry," David Baldwin, Chief Executive of Contact Energy, told press.

"Wairakei has provided the cornerstone for New Zealand's renewable energy future and has provided the foundations for numerous other geothermal developments both here in New Zealand and across the world."

See <http://www.voxy.co.nz/business/wairakei-leading-world-geothermal-energy/5/5454>.

Philippines: Mt. Kanlaon Buffer Zone Project Moves Forward

The geothermal project at the Mt. Kanlaon National Park Buffer Zone is moving forward, according to the Philippine Information Agency. Despite protests from environmentalists, threats of energy shortage were enough to move ahead with expansion. "Population is growing, new houses are being built needing electricity, but no new power plants are being put up to meet the power need," Energy Development Corp Senior Supervisor Erwin Magallanes told press.

See <http://www.pia.gov.ph/default.asp?m=12&r=&y=&mo=&fi=p081121.htm&no=18>.

Spain: Petratherm Provides Spain Projects Update

Press Release Highlights—November 17, [Spain and China Projects Update, Madrid Energy Potential Estimate of 170 PJ Comparable to the Cooper Basin Gas Production, Geo-Madrid Project Commences Market Demand Study](#)

An assessment undertaken by GPC-IP (specialist geothermal consultants based in France that manage most of the Paris Basin 260 MW of district heating projects) and detailed in a paper recently presented at the Inaugural Madrid geothermal Energy Conference, indicates that:

- The broader Madrid basin area has an exploitable energy potential of 730 PJ and the Company's northeastern Madrid license area has an exploitable energy potential of 170PJ (just over the annual gas production from SA's Cooper Basin).
- The Company's license area is considered the most prospective area having the hottest known zones with knowledge drawn from five existing deep wells and previous seismic and other geological studies .
- The assessment was made over a 75 year period (demonstrating the expected longevity of the energy potential) and considers heat at shallow, medium, deep and ultra-deep geothermal environments

GPC-IP Principal Consultant - Mr Pierre Ungemach who presented the findings (refer attached technical paper) confirmed the excellent energy potential for both district heating and electricity production

Energesis Geotermia, a large Spanish engineering group, has been engaged by Petratherm Espana to undertake a heating and cooling demand study to accurately quantify the local market demand for the Geo-Madrid project. The 8 MW Geo-Madrid demand study commenced in early November and is due for completion in mid December 2008. Following on from that study, work is planned with Energesis Geotermia to conduct the engineering design of the Geo-Madrid project, together with a detailed financial assessment.

The 8-MW Geo-Madrid district heating project aims to service the heating and cooling needs of the nearby University and a number of large government buildings owned by the Madrid Regional Government.

The Energesis Geotermia demand study is being undertaken with the cooperation of the project's two key customers - the Autonomous University and the Madrid Regional Government.

See <http://newsstore.smh.com.au/apps/previewDocument.ac?docID=GCA00903535PTR>.

Notices and Employment Opportunities

Employment: Project Director, Municipal Clean Energy Project, Alliance to Save Energy

The Alliance to Save Energy is seeking a Project Director to start-up and to lead the Municipal Clean Energy Project (MCEP). The MCEP is a new multi-year, national initiative to encourage investment in, and deployment of, energy efficiency and clean energy programs and policies by publicly owned power utilities in the U.S.

The Project Director will have oversight and responsibility for the entire MCEP program, will report to the Vice President of Programs for the Alliance as well as to the MCEP Steering Committee, and will liaise with key project partners.

The successful candidate must have at least five years of program management experience and three years of experience in one of the following areas: publicly owned utilities, municipalities and/or energy

efficiency. The candidate must also demonstrate organizational, writing and communications expertise and have the ability to work with senior level executives to both design and lead multi-faceted programs and initiatives. S/he must have a demonstrated ability to build and lead partnerships and/or coalitions. The candidate will work in a fast-paced environment with highly motivated staff in a rapidly growing, energy efficiency-focused organization. The position requires a modest amount of travel, mostly within the US. Candidates must have at minimum a Bachelors degree, Masters preferred.

Initial funding has been secured from a major foundation for the development of this initiative and the donor has expressed their interest in the future expansion of the program. Additional proposals have already been submitted to other funding sources. The current funding cycle is through 2011.

The position responsibilities include, but are not limited to, the following:

- Manage MCEP logistics, including budgeting, communications reporting, maintenance of the project web site, and supervision of project personnel and contractors;
- Liaise with the MCEP Steering Committee and project partners;
- Compile, field test and produce “best practice” tool kits for use by MCEP participants;
- Coordinate with project partners in the delivery of MCEP workshops and the tracking of workshop outcomes;
- Manage special events, including a project launch and Municipal Clean Energy Summits;
- Integrate the activities of the MCEP with other leading clean energy policy initiatives.

Salary is competitive based upon experience. The Alliance to Save Energy offers a generous benefits package and a comfortable work environment in downtown Washington DC convenient to Metro. Consideration of candidates will begin immediately and continue until the position is filled. The Alliance is an equal opportunity employer.

Applicants should send a cover letter, resume, salary history and references no later than December 1, 2008 by mail to Dianne Streat, Director of Administration, Alliance to Save Energy, 1850 M Street, N.W, Suite 600, Washington, DC 20036, or via email to dstreat@ase.org. No calls please.

Resource Development Opportunity – Rosebud Sioux Tribe, Rosebud, SD

The Native American Tribe near Mission SD has a deposit of geothermal energy under their large Rosebud Reservation in South Dakota. See US News & World Report, November 7, 2007, DOE map of U.S. Geothermal Hotspots, p. 52, reference to deposit p. 50.

Leigh Bryant-Zarse, the architect, engineer, and consultant in Wisconsin who is submitting this solicitation, attended a meeting of the Tribe Council on September 16, 2008. The Tribe presented him with a resolution to approach developers with free exploration rights on their reservation, and agreed to split 1/10 of 1% of the energy profits for a period of 2 years, if found. These parties are looking for help to develop the resource. The reservation is under one ownership, making it easy to deal with.

Contact: Leigh Bryant-Zarse, Architect-Engineer-Consultant, 1812 Mountain Ave., Wauwatosa, WI 53213-2336, phone and fax: 414-259-1812
Rosebud Sioux Tribe: Chief Rodney Bordeaux, PO Box 430, Rosebud, SD 57570, phone 605-747-2381

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.

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)

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 Pollution Control Policy and Environmental Economic Data, U.S. EPA (December 5)

The U.S. Environmental Protection Agency requests proposals for Research on the Design of Policies for Pollution Control Using Market Mechanisms, and, Data Gathering for Dissertation and Early Career Research on the Pollution Control Aspects of Environmental Economics. \$1.2 million expected to be available, up to 7 awards anticipated. Responses due 12/5/08. For more info, go to: <http://yosemite.epa.gov/ee/epa/eed.nsf/webpages/GrantSolicitations.html>. Refer to Sol# EPA-OPEI-NCEE-08-02. (Grants.gov 10/17/08)

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 Sustainable Skylines Initiative, U.S. EPA (December 17)

The U.S. Environmental Protection Agency requests proposals for the Sustainable Skylines Initiative (SSI). SSI supports community efforts to develop locally-led activities to help reduce emissions and promote sustainability with the goal of cleaner and healthier air. \$250K expected to be available, up to 5 awards anticipated. A Notice of Intent to Apply is requested but not required and is due 11/21/08. Proposals due 12/17/08. For more info, contact Yvonne Johnson at Johnson.yvonne@epa.gov or go to: http://www.epa.gov/air/grants_funding.html. Refer to Sol# EPA-OAR-OAQPS-08-08. (Grants.gov 10/29/08)

RFP for Environmental Education Grants, U.S. EPA (December 18)

The U.S. Environmental Protection Agency requests proposals for Environmental Education Grants. This program supports environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. \$3 million expected to be available, up to 95 awards anticipated. Responses due 12/18/08. For more info, including Regional contacts, go to: <http://www.epa.gov/enviroed/grants.html>. Refer to Sol# EPA-EE-09-02. (Grants.gov 11/6/08)

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)

Request for Applications for Office of Science Financial Assistance Program, U.S. DOE (December 31)

The U.S. Department of Energy, announces its continuing interest in receiving applications for the Office of Science Financial Assistance Program. Areas of interest include, but are not limited to, Basic Energy Sciences and Biological and Environmental Research. Subtopics include Climate Change Research. \$400 million expected to be available, multiple awards anticipated. Responses due 12/31/08. For more info, contact Lori Jernigan at Lori.Jernigan@science.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/1822D414FB0C1064852574D50071644C?OpenDocument>. Refer to Sol# DE-PS02-09ER09-01. (Grants.gov 10/1/08)

RFP for Climate Studies, NOAA (January 5)

The National Oceanic and Atmospheric Administration requests proposals for a Cooperative Institute that will focus on: 1) Climate and satellite research and applications, 2) Climate and satellite observations and monitoring, and 3) Climate research and modeling. \$13 million expected to be available, 1 award anticipated. Responses due 1/5/09. For more info, contact Ingrid Guch at ingrid.guch@noaa.gov or go to: <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=43003>. Refer to Sol# NESDIS-NESDISPO-2009-2001411. (Grants.gov 10/7/08)

RFP for National Geothermal Database, U.S. DOE (February 3)

The U.S. Department of Energy requests proposals for the National Geothermal Database Grant. Through this RFP, DOE seeks the creation of a web-based National Geothermal Database that will serve as a central repository for all publicly accessible geothermal data. \$5 million expected to be available, 1 award anticipated. Responses due 2/3/09. For more info, contact Pete Simon at GO.Geothermal@go.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/7CAC4E5E3DA165D9852574D30071183E?OpenDocument>.

Refer to Sol# DE-PS36-08GO98020. (Grants.gov 9/29/08)

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

Investor/Donor Conference: Geothermal Exploration and Development in Ethiopia, December 2–3 (Addis Ababa, Ethiopia)

The conference will be organized by the Ministry of Mines and Energy on Tuesday, December 2, 2008 in Addis Ababa, Ethiopia.

Following this, a “one to one” detail discussion on specific project of your interest and/or site visit to the Aluto-Langano geothermal field will be held on Wednesday, December 3, 2008.

The main objective of the conference is to share with the participants (a) the new strategic development plan and the identified potential projects for investment, (b) familiarize the prospective investors with the relevant promotion policies of the Government of Ethiopia on (i) investment in power sector, (ii) investor promotion/friendly policy framework, and (iii) where possible, to firm up investment proposals with individual potential investors.

Geothermal exploration and development programs in Ethiopia have been conducted for the last four decades in the Ethiopian Rift Valley that covers an area of 150,000 km² and discovered over 18 geothermal prospect areas. Despite this, the country has not yet benefited from this indigenous and environmentally friendly resource in a meaningful manner.

Kindly respond by email address mme@ethionet.et with copies to geology.institute@ethionet.et, eelpa@ethionet.et, and electric.agency@ethionet.et.

NILS GeoCommunicator BLM Public Workshop, December 10 (Lakewood, CO)

Come see the BLM’s Land and Mineral Use Records systems. This Workshop will benefit mining, energy, title, utility, survey, educational, and environmental users. Live demonstrations and hands-on will be given on the BLM’s NILS GeoCommunicator and LR2000. The workshop will take place Wednesday, December 10, 2008. Choose one session: 9:00 a.m. to 11:00 a.m. -or- 1:30 p.m. to 3:30 p.m., at the Denver Federal Center (Alameda and Kipling), Enter through Gate 1 (ID required at the gate), Bldg. 40, 1st Floor, Training Room, Lakewood, CO.

Learn how to:

- Download PLSS data (Township/Range/Section grid).
- Map BLM land and mineral use authorizations such as: oil and gas leasing and sales, geothermal, coal, mineral material disposal, rights-of-way, stipulations, conveyances, wind, solar, and more.
- Link parcels directly to LR2000 reports.
- Map grazing allotments and pastures-link allotments to grazing reports.
- View federal surface management agency boundaries and U.S. Forest Service sale parcels.
- Highlight new map features.
- Use GeoCommunicator map and web services within your own GIS.

Registration and Questions? Please reserve your place by sending an email to Richard_McKinney@blm.gov (Please specify a.m. or p.m. session).

Utah Geothermal Lease Sale, BLM, 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: argeoC2@minerals.go.ug or bahati@minerals.go.ug.

Ground Engineering Geothermal Energy, February 5 (London, England)

Ground Engineering Geothermal Energy: Unlocking opportunities, collaborating across disciplines and understanding what works

Thursday 5th February 2009, Earls Court Conference Centre, London SW5

Explore latest approaches to harnessing ground source energy and learn from the experiences others have had in this growing sector. Capitalize on the opportunity to position your firm ahead of the competition and attract new clients to the services you offer.

Key speakers include:

- Duncan Nicholson, Director, Arup
- Aleksandra Sasha Krstanovic, Regional Director, Faber Maunsell
- Brian Mark, Director of Sustainability, Fulcrum Consulting
- Peter Smith, Geothermal Manager, Cementation Skanska
- Dr Robin Curtis, Technical Director, Earth Energy Ltd

Register today to:

- Build relationships in this sector
- Get technical information on the building services and geotechnical challenges of ground source energy
- Hear from leading players within the geothermal field

For more information visit www.geothermal.co.uk, call 0845 056 8069 or email constructconferences@emap.com. Quote “GEA” when you register

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 (CanGEO) announces their Workshop, Tradeshow, Conference and AGM on April 15–17, 2009 in Vancouver, BC.

CanGEO also announces that its 2009 membership drive has begun. CanGEO 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