



GEO THERMAL ENERGY ASSOCIATION

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National News

Senator Boxer Announces Plans for Hearings on Clean Energy and Economic Stimulus

On December 8, Senator Barbara Boxer (D-CA), Chair of the Senate Environment and Public Works Committee announced hearings January 7 to focus on green technology and the economy. The hearings are intended to support Committee action on an expected economic stimulus package.

“We also need to mobilize to achieve energy independence and to combat global warming. The good news is that when we tackle this challenge, we create millions of jobs, become more energy efficient, save money in energy costs and invest in new technologies. These actions will restore our leadership in this area as all nations look for solutions,” Senator Boxer said.

“I also want to announce today that on January 7, one day after the new Congress is sworn in, I am hosting a briefing in the Environment and Public Works Committee. The title of the briefing is "Investing in Green Technology as a Strategy for Economic Recovery."

“I am pleased to announce that I have two extraordinary speakers confirmed for this briefing—Pulitzer Prize-winning columnist Thomas Friedman, author of many influential books on the global economy, including "The World Is Flat" and his latest, "Hot, Flat, and Crowded: Why We Need a Green Revolution—and How It Can Renew America."

“Our second speaker will be John Doerr. John Doerr is a partner at Kleiner Perkins Caufield & Byers. He has been a visionary investor backing companies like Google and Amazon. He is passionate about the role that technology and innovation will play in achieving energy independence, creating jobs and combating global warming.

“The EPW committee has many areas of jurisdiction which will be part of the economic recovery plan for our nation—including infrastructure, the Economic Development Administration at the Department of Commerce and global warming. We will focus on all of these areas in the new Congress,” Boxer told the media.

Senator Boxer’s remarks reflect widespread views that renewable tax provisions and possible renewable program funding will both be included in an economic stimulus package.

Congress Could Change Renewable Energy Tax Credits

From Sustainable Energy Coalition/SUN DAY Campaign, [US House Tax Adviser Says Renewable Energy Tax Credit Changes Possible](#)

John Buckley, chief tax counsel to House of Representatives Ways and Means Democrats, said Congress may consider changes to renewable energy and low-income housing tax credits because the financial crisis has put many tax credit-financed projects in peril. Renewable energy groups are asking Congress to make the tax credits, which Congress just renewed in October, refundable. They are pressing Congress to include that and other changes in a forthcoming economic stimulus package. However, Buckley predicted the

stimulus bill will be dominated by spending measures including infrastructure spending and downplayed the extent to which tax provisions will be included. Bill Dauster, deputy staff director of the tax-writing Senate Finance Committee, said he expects both business and individual tax cuts to be a part of the stimulus package. Dauster also predicted that lawmakers would find room in the stimulus bill for renewable energy tax incentives.

See

http://money.cnn.com/news/newsfeeds/articles/djf500/200812051428DOWJONESDJONLINE000916_FOR_TUNE5.htm.

***National Journal* Features Geothermal Energy**

“Recent technological advances have made geothermal energy a more attractive and viable source of electricity,” begins a feature piece in the *National Journal* that provides excellent information on geothermal energy in the U.S. From experimental low-heat technology to projects with oil and gas wells, the article gives an overview of development and states that Obama’s renewable energy agenda could boost the geothermal industry.

The article begins with an introduction to Chena Hot Springs in Alaska, which has been a model for similar low-heat projects elsewhere. The water was originally considered not hot enough to develop, but owner Bernie Karl bought it knowing one day it would happen – and he was right.

“UTC Power and similar companies are building small, modular power plants that can be up and running within a year,” the article states, and quotes GEA’s Karl Gawell: “These companies have shown that you can put a project on line in less than a third of the time it normally takes,” Gawell said. “That’s phenomenal. That reduces the cost of a project dramatically.” Lund added that the new technologies have “opened up quite a bit of land that 10 years ago we wouldn’t have even considered” for a geothermal generator.

In the world of generating geothermal power from oil and gas wells, DOE’s Rocky Mountain Oilfield Testing Center in Wyoming and Ormat Technologies announced in October that they had generated electricity using geothermal hot water from a producing oil well, the article said. “These early demos could well be critical to seeing whether or not this takes off,” Gawell said. “Nobody in the oil business is going to want geothermal to interrupt their oil operations. They want somebody to come in and immediately make it work.”

And of course, the buzz is only getting hotter on what will happen with geothermal in the new administration. “Now the push is on to have the Democratic-led Congress adopt a national renewable-energy requirement, which President-elect Obama supported during his campaign for the White House,” the article stated. Some energy experts predict that geothermal could do well, and Bush administration officials have also said that geothermal is coming into its own.

The article quoted Steve Chalk, deputy assistant secretary in the Energy Department’s office of energy efficiency and renewable energy: “We’re going through a renaissance now with geothermal, a rebirth.”

From Kriz, Margaret. “The Cool Option.” National Journal, 6 Dec. 2008, pp. 42–45.

Company News

Enel Green Power: Focus will Increase Renewable Projects

The Enel Group has created a new company, Enel Green Power, to oversee its renewable energy activities in Europe, North America, and Central and South America, according to energy-business-review.com.

Francesco Starace, head of Enel's renewable energy division, said: "At Enel, we believe in the development of renewable sources. Renewable sources can give an important contribution to the security of energy supply as well as to the quality of the environment." He added, "With the new company, we intend to substantially increase the installed capacity relying on water, sun, wind and the natural heat of the earth, in the next five years, thanks to major development projects and to targeted investments in high-value projects."

See http://www.energy-business-review.com/article_news.asp?guid=E52BDAF6-015D-4021-B49E-903C6EB9B165.

Raser Technologies: CSI to Assist in Evaluating Strategic Relationships

Press Release—December 4, Raser Retains Calyon Securities (USA) Inc. to Handle Growing Inquiries Regarding Development of Strategic Relationships for Raser's Geothermal Business

Raser Technologies, Inc. (NYSE Arca:RZ) announced today that it has retained Calyon Securities (USA) Inc. ("CSI"), a subsidiary of Calyon and a global full service institutional broker-dealer, to explore potential strategic relationships offering additional options for implementing and accelerating its development goals.

With the completion of its first modular geothermal power plant and the expected development of seven other projects initiated by the Company, Raser has had discussions with several potential strategic partners that are interested in exploring opportunities with the Company. CSI will assist the Company in evaluating potential opportunities related to Raser's geothermal assets that are consistent with the Company's strategic objectives. The Company is continuing to expand its development program and replicate its modular power generation process in an effort to meet the growing demand for renewable energy in the United States and abroad.

Martin Petersen, Raser's Chief Financial Officer, said, "We are pleased to work with CSI and benefit from its experience in sustainable energy development investment banking. It is important to note that this relationship does not displace our existing funding commitments, or preclude our ability to seek funding for our projects under our existing financing commitments going forward. As part of our negotiations for additional power purchase agreements, we are also continuing to explore the use of pre-paid power purchase agreements, which would provide an additional financing option to offset power plant construction expenses."

Western GeoPower: Fourth Well at Geysers Shows High Productivity

Press Release—December 4, Western GeoPower's Drilling Success Continues with 9-MW Well

Western GeoPower Corp., a renewable energy development company, today announced that completion testing of the Company's fourth well (WGP-4) at The Geysers Geothermal Field in California has established an initial power capacity of 9.0 MW (gross) or 8.2 MW (net). This latest well increases the power capacity placed behind pipe to 28.7 MW (gross) or 26 MW (net), representing over 70% of the initial steam resource required to supply the planned 35 MWe Western GeoPower Unit 1 plant.

Flow tests on all four wells were conducted by independent consultants GeothermEx. The initial flow rates for the four wells aggregate 463,000 lbs/hour at a design condition of a minimum flowing wellhead pressure of 87 psia. The power plant specifications call for steam requirements of 16,130 lbs/hour per MW (gross) or 17,743 lbs/hour per MW (net).

"Drilling to date continues to yield outstanding results, with well WGP-4 coming close to matching WGP-1 as the most productive well drilled at the Geysers over the past two decades," said Dr. Subir Sanyal, President of GeothermEx. "The high well capacity achieved to date reflects the presence of high-flow-capacity areas within the leasehold, and careful targeting and drilling of the wells."

California-based GeothermEx is a recognized international authority in the evaluation of geothermal resources and has been involved in the development of all the producing geothermal fields in the United States and over 750 projects worldwide. Their knowledge of The Geysers geothermal field is extensive, having been associated with the development of the field for over 30 years.

“We are especially pleased to report that well WGP-4 has been completed considerably under budget and over one month ahead of schedule,” said Kenneth MacLeod, President & CEO of Western GeoPower. “Significant cost savings may be realized with the drilling program if future wells continue to yield similar high productivity rates.”

Initial projections called for the drilling of a total of eight production wells and one injector. Should the drilling of the additional wells continue to yield higher than anticipated productivity, fewer wells may be required. An existing well is being assessed for re-work and may be used as a second injection well. The drilling program is scheduled for completion in late 2009 and the 35 MWe Western GeoPower Unit 1 plant is projected to start commercial operations in early 2010.

The Geysers geothermal field, located 75 miles north of San Francisco, California, is the largest producer of geothermal electricity in the world. Commercial geothermal power has been generated continuously at The Geysers field since 1960, the present generation level being about 900 MWe of clean, baseload electricity. Western GeoPower's Unit 1 project is situated in the south-western region of The Geysers field in Sonoma County.

Renewable and Climate Change News

Young People Urge World Leaders to Combat Climate Change

Press Release from United Nations Environment Programme, [Young People Urge World Leaders to Combat Climate Change](#)

Nearly 90% of young people across the globe think world leaders should do "whatever it takes" to tackle climate change. This is among the top findings of a new poll conducted on behalf of the United Nations Environment Programme (UNEP).

The survey of 12 to 18 year-olds in five countries (Brazil, India, Russia, South Africa and the United States) found that nine in ten young people (88% overall and 85% or more in each country) agree that "World leaders should do whatever it takes to tackle climate change".

Climate Change a Top Concern among Young People

Young people are clearly concerned about climate change. Concern is highest in Brazil (96%) and South Africa (91%), followed by India (85%) and the United States (82%), while significantly lower levels of concern are expressed in Russia (70%).

World Leaders Not Doing Enough

Young people in South Africa, the United States and Brazil are particularly critical of world leaders' efforts to address climate change; seven in ten or more across these three countries say world leaders are not doing enough (South Africa, 82%; the United States, 79%; Brazil, 73%). Only in India are young people more likely to say world leaders are doing "too much" or "enough;" just 19 percent say they are not doing enough.

Necessary to Take Major Steps Very Soon

There is a great sense of urgency among youth in most countries, with a majority of young people in each country except India saying, "It is necessary to take major steps starting very soon" (Brazil, 88%; South Africa, 81%; Russia, 75%; the United States, 61%). When thinking about the human impact on climate

change in India, most young people believe that modest steps should be taken over the coming years (53%). This reinforces their world view that enough is being done on climate change.

Young People Feel Empowered to Act

Four in five youths surveyed believe they can make a difference on climate for our future (89%); however, a majority also say they need more information about what they can do to tackle climate change (84%).

Those in Brazil, India, South Africa, and the United States are most enthusiastic about making a difference and wanting more information in order to do so, while those in Russia are less likely to agree (with 77% saying they can make a difference).

Achim Steiner, UN Under-Secretary General and Executive Director of UNEP comments, "I am very pleased to note the high level of awareness on climate change among 12 to 18-year olds. These are the voices of the generation that will inherit the impacts of climate change if world leaders fail to act. It is clear from the survey that young people around the world are seriously worried about what climate change will mean in terms of their future on this planet. Through them, we can reach out to the approximately 3 billion people around the planet who are under 25. There are some 400 days to go before the crucial UN climate convention meeting in Copenhagen-world leaders have now heard the concerns of young people. This generation must now take responsibility for the next".

Chris Coulter, Vice-President of GlobeScan, comments, "This is a strong and important statement from the world's youth to world leaders. It is strong because the message to political leaders and policymakers appears to be: 'Do what it takes to tackle climate change, even if major steps are needed, and act urgently because we are affected and concerned by climate change.' It is important because young people are not always well represented by world leaders, although their future is to be decided in upcoming climate agreements."

See <http://www.unep.org/Documents.Multilingual/Default.asp?DocumentID=548&ArticleID=5961&l=en>.

State News

Alaska: Senator visits Iceland to learn of geothermal energy techniques

An article on alaskajournal.com compares Alaska to the nation of Iceland: small population, similar climates. The article, written by Senator Lesil Mcguire, focuses around how a coordinated strategy for increased emphasis on renewables can benefit the state, as Iceland has done for itself.

As western region chair of the Council of State Governments, Mcguire recently visited Iceland to offer experience in dealing with a major fiscal crisis. The solutions continually led to Iceland's renewable energy (geothermal and hydro) as the answers.

In relating the answers to Alaska, the senator pointed out that geothermal energy projects can serve as a jumping off point for other options. "It can supplement any gasline project that we have. It can come ahead of any gas pipeline and we have the geological structure in Alaska to do it," he said, and concluded his piece, "Inexpensive energy is the spark to new businesses."

See http://www.alaskajournal.com/stories/113008/hom_20081130032.shtml.

Hawaii: Puna Geothermal Celebrates 15 Years of Geothermal Operations

Puna Geothermal Venture is celebrating 15 years of producing renewable geothermal electricity, according to hawaiiireporter.com. State and local dignitaries and representatives from PGV's parent company, Ormat, will attend a luau luncheon on December 10 to celebrate the 30-MW project in operation since 1993. PGV

is the only geothermal power plant in the state and provides 20% of the electricity needs of the Big Island of Hawaii.

See <http://www.hawaiireporter.com/story.aspx?0e835dda-83db-4ce9-b71c-f680fb4ee04d>.

Utah: Mining Company Joins Geothermal Partnership

Copper King Mining Corporation has entered into a partnership for geothermal energy with a potential generating capacity of up to 400 MW, according to [energycurrent.com](http://www.energycurrent.com). While the company is primarily involved in mining, this will be Copper King's first geothermal venture.

"We expect minimal capital outlay until well after cash flow from our copper production is reached in connection with these projects until much further along in the development process," Mark Dotson, Copper King's president, told press. "While we are fully engaged in carrying out our basic business plan to complete the mill and enter into the production of copper, gold, silver concentrates, this new association enables us to create sizable value with minimal investment and provides no distraction to our current operations. It may also substantially enhance the value for our shareholders by providing a diversity of exposure to growth in resource development."

See <http://www.energycurrent.com/index.php?id=3&storyid=14649>.

International News

Australia: Greenerth Exploring Otway Basin for Geothermal

Greenerth Energy Limited hopes to build a geothermal power plant in the Otway Basin of Victoria, according to [standard.net.au](http://www.standard.net.au). The company is planning to conduct further exploratory drilling. The area is connected to an area that Hot Rock Limited has announced plans to develop.

Greenerth Energy managing director Mark Miller told press, "We have here the potential to deliver hundreds of megawatts of clean, safe, renewable energy at the doorstep of our two great Victorian cities (Geelong and Melbourne)."

See <http://www.standard.net.au/news/local/news/general/otway-geothermal-jackpot/1378103.aspx>.

Bolivia: Laguna Colorada Geothermal Project Begins Construction in February

The Laguna Colorada geothermal project is to begin construction in February, according to [bnamericas.com](http://www.bnamericas.com). It is being planned as a 100-MW by Bolivia's state power company, Ende. The project will cost US\$320m and will be completed in 3.5 years, Rafael Alarcón, the company's general manager said at a conference in Santiago.

Four production wells and one injection well were previously drilled, and the project will require 10 new production wells and six new injection wells. The power will supply local demand and may connect to Chile's northern grid, the article said.

See

http://www.bnamericas.com/news/electricpower/Ende_to_begin_Laguna_Colorada_geothermal_project_works_in_February.

Comoros: Geothermal Development Potential on the Horizon

An article on allafrica.com features recent volcanic action on Grand Comore, the Comoros archipelago's largest and most developed island. Mount Karthala has recently become more active, creating major problems for its residents. The article describes the health risks and options for the nation in dealing with the volcano.

However, Comoros President Ahmed Abdallah Sambi and others see that there could be a silver lining in developing geothermal power. "France may be a nuclear power, but the Comoros can be a volcanic power," the president said at a recent conference. Only about 46% of the population has access to electricity.

Kenya Electricity Generation Company has investigation possibilities, the article said, and a 9-day exploratory mission found a huge reservoir of water. The mission explored the slopes of Karthala as well as the island's two dormant volcanoes, Grille and Grotto.

See <http://allafrica.com/stories/200812080762.html>.

Kenya: Olkaria III Geothermal Plant Expansion Complete

Ormat Technologies, Inc. has announced the completion of phase two construction at the Olkaria III geothermal power plant in Kenya, according to marketwatch.com. The plant adds 35 MW to the existing 13-MW plant and will supply local demand. It will save 120,000 tons of imported oil, mitigate approximately 200,000 tons of CO₂ emissions per year, and reduce the average production cost of electricity in Kenya, the article said.

"Ormat is proud to have built up the plant capacity to the original target of 48 MW," Lucien Bronicki, Chairman and Chief Technical Officer of Ormat, announced. "This accomplishment was made possible by Ormat's belief in Kenya's economy combined with the hard work and dedication of our Kenyan employees and colleagues."

See <http://www.marketwatch.com/news/story/Ormat-Technologies-Completes-Kenyan-Geothermal/story.aspx?guid={0889CE10-F9E7-47EA-A123-6D97841852D9}>.

Mexico: Power Company Identifies 7 High-Potential Geothermal Zones

Mexico's state power company CFE has identified seven high-potential geothermal zones in the country, according to bnamericas.com. The announcement was made by the company's geothermal division head Raúl Maya at an international geothermal conference in Chile. The zones are Tulecheck and Piedras de Lumbre in the north, El Ceboruco and Cerritos Colorados in the center and Aocolco, Tacaná and Chichonal in the south, the article said. Mexico's current installed geothermal power capacity is 958 MW.

The article listed current developing projects: Cerro Prieto (720MW), Los Azufres (188MW), Los Humeros (40MW) and Las Tres Virgenes (10MW). There are additional projects in the works.

See http://www.bnamericas.com/news/electricpower/Official:_CFE_identifies_7_high_potential_geothermal_zones.

Nevis: Geothermal Negotiations Nearing Completion

Discussions on development of geothermal energy between the Nevis Island Administration and West Indies Power are nearing completion, according to *Caribbean Net News*. Negotiations will determine a

geothermal resource contract and a power purchase agreement between Nevis Electricity Company Ltd and WIP.

“The broad terms have been agreed on and so as a result of that the West Indies Power Limited have indicated to us [NIA] that they are available for the second round of negotiations and they have proposed dates in the middle of December,” Junior Minister of Communications and Works Carlisle Powell said in an interview with the Department of Information on December 5.

See <http://www.caribbeanetnews.com/news-12695--35-35--.html>.

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 U.S. 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 U.S. 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](#)).

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 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.yvonnew@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)

RFI for the Purchase of Renewable Energy Products, Western Area Power Administration, DOE (December 18)

The Western Area Power Administration, DOE (Western), a Federal power marketing agency of the U.S. Department of Energy, announces the availability of a Request for Interest (RFI) for the Purchase of Renewable Energy Products. Western is seeking interest from any supplier regarding the long-term purchase (10 to 15 years) of renewable energy with or without Renewable Energy Certificates (RECs). The energy may be delivered to the Upper Great Plains Region, the Rocky Mountain Region's Loveland Area Projects, the Colorado River Storage Project, and/or the Desert Southwest Region. All available points of delivery are located within the Western Interconnection.

DATES: Responses to the RFI must be received by Western on or before December 18, 2008.

FOR FURTHER INFORMATION CONTACT: For further information or to obtain a copy of the RFI, please contact Mr. Tim Vigil, Western Area Power Administration, Colorado River Storage Project, Energy Management and Marketing Office, 1800 [Page Number 73930] South Rio Grande Avenue, Montrose, CO 81401, (9..., fax (970) 240- 6295, e-mail renewable-rfi@wapa.gov. The RFI is also available on Western's Web site at <http://www.wapa.gov>.

SUPPLEMENTARY INFORMATION: Western is seeking interest from any supplier regarding the long-term purchase of renewable energy to supplement any one or more of, or possibly combinations of, four regions. These regions span a large area, including Arizona, New Mexico, Utah, Colorado, and Wyoming, but are connected by contiguous transmission lines. Western would prefer renewable energy with RECs, but will entertain offsets on price for renewable energy without RECs. Delivery points and approximate amounts of energy desired for each region are listed in the RFI. Currently, Western is only requesting information concerning renewable energy priced at or below \$100 per MWh. Dated: November 21, 2008. Timothy J. Meeks, Administrator. [FR Doc. E8-28712 Filed 12-3-08; 8:45 am] BILLING CODE 6450-01-P Vol. 73, No. For more information, please contact: Susan Innis, Colorado Carbon Fund Program Manager Governor's Energy Office 1580 Logan Street, Suite 100 Denver, CO 80203 P: 303.866.2309 C: 720.352.1101 F: 303.866.2930 susan.innis@state.co.us www.colorado.gov/energy Joani Matranga, Western Region Representative Governor's Energy Office P.O. Box 876 Carbondale, CO 81623

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

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.

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/>.

New Date: Canadian Geothermal Energy Association Conference and AGM, April 22–24, 2009, (Vancouver, B.C.)

The Canadian Geothermal Energy Association (CanGEO) announces their Workshop, Tradeshow, Conference and AGM on April 22–24, 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