



GEOTHERMAL ENERGY ASSOCIATION

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National News

Congressional Committees Continue Making Progress on Energy/Climate Bills

Environment and Public Works Committee Chairwoman Barbara Boxer (D-Calif.) said Thursday that she expects to mark up climate and energy legislation before the August recess, and the bill should reach the full Senate in the fall, according to politico.com. The bill will likely include tougher short-term targets for capping carbon dioxide and other greenhouse gas emissions. The House legislation proposes a cut of 17% by 2020 and 83% by 2050.

Meanwhile, the Senate Energy Committee continued work on its energy legislation, which will have to be combined with the Environment Committee bill to cover the issues in the pending House legislation. The Senate Energy Committee has been actively working on its bill, American Clean Energy Leadership Act of 2009, and hopes to finish all amendments on at the two scheduled mark-ups next week. The Senate Energy Committee makes available information on the pending bill and amendments on its Web site at: <http://energy.senate.gov/public/> (click on "Energy Bill 2009" on the left of the home page.)

In the House, the Energy and Commerce Committee approved H.R. 2454, "The American Clean Energy and Security Act," by a vote of 33 to 25 on May 21st. The full House is expected to take up this legislation

later in June. Detailed information about the House bill can be obtained from the Committee web site at: <http://energycommerce.house.gov/> (click on the "featured items: American Clean Energy and Security Act of 2009" on the right side of the home page.)

Senate Energy Bill's "Anemic" Renewable Energy Provision Needs to be Strengthened, Science Group Says

Press Release, June 9 -- Just before an expected vote today on a comprehensive energy package before the Senate Energy and Natural Resources Committee, the Union of Concerned Scientists (UCS) pointed out that the bill's renewable electricity standard would do nothing to spur clean energy development in the United States. In fact, according to UCS, the standard the committee likely will approve today could undermine prospects for expanding the nation's burgeoning clean energy sector.

"This anemic standard would do absolutely nothing to promote clean electricity," said Marchant Wentworth, a UCS Washington representative. "What's worse, it could undercut state renewable energy programs. No one wants a federal bill that would take us backward. We'll be working closely with Committee Chairman Bingaman to make substantial improvements."

The Senate committee's standard would promote much less wind, solar, biomass and other renewable energy development than what the United States could affordably achieve, Wentworth said. The bill, sponsored by Sen. Committee Chairman Jeff Bingaman (D-N.M.), would require as much as 2.8 percent less renewable energy development than what the Department of Energy projects current state policies and federal incentives would generate by 2021.

In addition, a glaring loophole in the proposed standard would allow utilities to virtually opt out of the requirement altogether, Wentworth said. Various federal renewable electricity standard proposals include an "alternative compliance payment" mechanism that would allow utilities to avoid meeting the renewable development requirement by paying a fee to the federal government, which would then return the money to the states to invest in clean energy projects. The current Senate committee proposal would allow governors to give these alternative compliance payments back to the utilities without requiring them to develop new renewable energy.

The Senate committee also adopted an amendment offered by Sen. Jim Bunning (R-Ky.) that would explicitly allow alternative compliance payments to fund nuclear power plants and coal plants that capture and bury, or "sequester," their carbon dioxide emissions, a technology that has not as yet been shown to work on a commercial scale.

"The alternative compliance payment mechanism sounds obscure, but the way it is set up in this bill it would create a perverse incentive for utilities to make the alternative payment—even if it cost more than investing in renewables—because they would get all that money back with no strings attached," said Wentworth. "Meanwhile, Senator Bunning's amendment would create a slush fund for utilities to build new nuclear and coal power plants in the name of renewable energy. That's unacceptable. It has to be fixed or else this proposed standard is worse than having no standard at all."

The Union of Concerned Scientists (UCS) pointed out that the bill's renewable electricity standard expressed that the bill will not help clean energy development, according to en.sourcew.com. "This anemic standard would do absolutely nothing to promote clean electricity," Marchant Wentworth, a UCS Washington representative told press. "What's worse, it could undercut state renewable energy programs. No one wants a federal bill that would take us backward. We'll be working closely with Committee Chairman Bingaman to make substantial improvements." The bill would require up to 2.8% less clean energy development than what the Department of Energy projects current state policies and federal incentives would generate by 2021, the article stated.

See http://www.ucsusa.org/news/press_release/senate-RES-needs-strengthening-0248.html.

Seattle Workshop Heralds New Era for Geothermal Energy Potential in the Pacific Northwest

By John McCaull, GEA Western States Representative

Well over 175 attendees of the U.S. Geothermal Energy Technology, Finance, and Development Workshop in Seattle learned last Wednesday that the Pacific Northwest is once again on the map for geothermal energy exploration and development. Organized by the Geothermal Energy Association (GEA) and Gold Level Sponsors, Enel North America (<http://www.northamerica.enel.it>), Ormat Technologies (<http://www.ormat.com>) and Pratt and Whitney Power Systems (<http://www.pw.utc.com>), the workshop included a Pacific Northwest regional update, and participants heard from U.S. industry leaders about their latest projects and technologies.

The workshop first took shape in 2008, when Seattle Mayor Greg Nickels contacted GEA to discuss the idea of holding a geothermal energy workshop in Seattle. With the help of the City, GEA put together a program of experts from industry, academia and government who all gathered on June 3rd at the Washington Convention and Trade Center for a full day program. The workshop centered on a key theme: what opportunities exist to expand geothermal energy use in states and regions where we know there are resources, but they are not well researched or proven?

After a warm welcome from Mayor Nickels, staff from Congressman Jim McDermott and State Senator Adam Kline, Washington State Geologist Dave Norman set the stage by delivering a presentation on the geothermal resources of Washington State. Perhaps the most important and telling comment of the workshop was Norman's observation that in the 1970's when the United States Geological Survey did their most comprehensive mapping to date of geothermal resources, they basically stopped at the Washington border. The reason: cheap and plentiful hydro-electric power from the Bonneville Power Administration (BPA) made even the alluring geothermal profile of the state's Cascade range seem somewhat moot.

Times have changed. Karl Gawell, executive director of GEA attended an event hosted by northwest utilities in Portland the day before the workshop and noted, "The customers of BPA have been told that the days of relying on meeting their growing power needs by calling on BPA are over. New energy needed to service load growth will have to come from other sources, and that has rejuvenated interest in geothermal energy throughout the region."

State Senator Adam Kline deserves special mention. Not only did he welcome workshop attendees, but he stayed for the entire conference, actively engaging speakers and participants to identify the next steps for the state to actually learn what scale and extent of geothermal resources are available in the near term and how best to assess their potential for development and use. Washington State is one of the many states with "renewable portfolio standards." Currently, the state's RPS law (established by voters in 2006 by Initiative 937) requires all "qualifying utilities" to obtain progressively higher percentages of power from renewables until reaching 15% of load by 2020. There have also been various as-yet unsuccessful attempts in the Washington State Legislature to boost the RPS target to 20% of load service from renewable energy by 2025. It is also worth noting that I-937 does not allow new hydro-electric energy projects (i.e. dams) of any size to claim eligibility for renewable energy credits under the RPS program.

The consensus message from the workshop was that it is time to take a serious look at geothermal resource potential in the Pacific Northwest. As attendees learned later in the day from Arlene Anderson of the U.S. Department of Energy, there is also an unprecedented opportunity for accessing federal 2009 stimulus funds for geothermal energy research and development. For states like Washington that are basically interested in doing baseline resource profiles, help may be on the way. President Obama recently awarded \$30 million in American Recovery and Reinvestment Act (ARRA) funds for the National Geothermal Data System, Resource Assessment, and Classification System. According to Ms. Anderson from DOE, "This system will

fund a detailed characterization of geothermal energy resources nationwide, support the development of a nationwide data system to make resource data available to academia, researchers, and the private sector, and support the development of a geothermal resource classification system for use in determining site potential.”

Throughout the day, geothermal energy and technology companies profiled various state of the art drilling and hydrothermal technologies, power systems, cutting edge resource development ideas such as enhanced geothermal systems (EGS) and direct use applications such as those at the Oregon Institute of Technology campus. The consistent message from industry for Washington State is that the capacity, technology and resources exist to assist in whatever project opportunities may be identified. Leading project developers were able to showcase new utility-scale projects that are coming on line throughout the western states.

The workshop also featured panels focusing on the very practical challenges and issues facing geothermal development projects in the U.S. What are the federal policies for exploration and leasing on federal lands that are either supportive or discouraging to geothermal developers? How can the up front costs and expenses related to finding and “proving” geothermal resources be supported by state and federal programs, or built into financing packages? What are the key environmental, cultural resource and community issues that must be considered when siting and developing geothermal resources?

If “stirring the pot” in the Pacific Northwest was a goal of the workshop, it succeeded. After leaving the conference, there was a feeling of a new beginning for geothermal energy in the region.

Company News

Enel North America Inc.: Fallon and Fernley Pilot Energy Program for Students

Enel North America Inc. sponsored a pilot program for a PlayEnergy curriculum and contest for fifth-grade students in Fallon and Fernley, according to lahontanvalleynews.com. Enel hopes to expand the program country-wide. The curriculum taught students about eco-friendly energy sources. For the contest, students came up with ways to increase energy efficiency.

See <http://www.lahontanvalleynews.com/article/20090609/NEWS/906099986/1045>.

Google: Heading Toward Cheaper-Than-Coal Green Energy Goal

An article on Reuters explores Google’s green energy efforts and their goal of producing renewable energy at a price cheaper than coal. Chief Executive Eric Schmidt has conferred with President Barack Obama on economic revival and creating new jobs through green energy initiatives. The company has made investments in geothermal and wind power but is focused on solar thermal.

See <http://www.reuters.com/article/GCA-GreenBusiness/idUSTRE5585XG20090609>.

Raser Technologies: Project Qualifies for Loan Guarantee Program

Press Release—June 9, [U.S. Department of Energy Clears Raser Application for Loan Guarantee Program to Proceed](#)

Provo, UT –Raser Technologies, Inc., a leading energy technology company, announced today that the Department of Energy (DOE) has notified the company that its loan guarantee application has been approved to proceed to the next stage of due diligence. The application is for loan guarantees to help finance up to 80% of the expected \$190 million project. The guaranteed loan is expected to be used for the

construction of approximately 42 MW of gross binary-cycle geothermal power plant capacity near the company's existing Thermo No. 1 project in Beaver County, Utah. Raser anticipates that, pending completion of additional due diligence by the DOE, drilling and construction will begin later this year.

On February 26, 2009 Raser submitted an application for a project on the Thermo resource to the DOE's Energy Efficiency, Renewable Energy and Advanced Transmission and Distribution Solicitation loan guarantee under Title XVII of the Energy Policy Act of 2005. The DOE issued notification that our project application was complete and that the power plant technology choice qualifies as new or improved under the program, and the project has been selected to proceed in the project loan guarantee process.

Raser CEO, Brent M. Cook, said, "This announcement from the DOE demonstrates that Raser Technologies is well positioned to take advantage of government stimulus programs targeted for renewable energy. The funds obtained with the loan guarantee program would enable us to develop our current geothermal resources in southern Utah. It would be a great step forward for the company."

Raser's Thermo No. 1 geothermal power plant recently began selling power to Anaheim, California under a long-term power purchase agreement. Raser's unique power plant design, coupled with state-of-the-art generators similar to those used in its Thermo No. 1 plant, allow Raser to utilize low temperature resources and build power plants substantially faster than typical power plants.

See <http://www.rasertech.com/news> and <http://www.forbes.com/feeds/ap/2009/06/09/ap6523178.html>.

Renewable and Climate Change News

H.R. 2454 Would Save \$3,900 per Household by 2030, ACEEE Says

Press Release Highlights—June 9, H.R. 2454 Would Save \$3,900 per Household by 2030; Energy Efficiency Provisions Will Create 650,000 Jobs by 2030

Washington, D.C. (June 9, 2009): The federal energy efficiency provisions included in H.R. 2454, the American Clean Energy and Security Act, could save approximately \$750 per household by 2020 and \$3,900 per household by 2030, according to a preliminary analysis by the American Council for an Energy-Efficient Economy (ACEEE). The bill provides an important step forward in addressing climate change through energy efficiency and other means of reducing heat-trapping greenhouse gases.

The energy efficiency provisions in the bill will reduce the transitional costs of capping carbon pollution. Savings from reduced energy use will be reinvested locally, creating a multiplier effect that will generate economic activity and jobs. ACEEE estimates that approximately 250,000 jobs will be created by the energy efficiency provisions in H.R. 2454 by 2020, with a total of 650,000 jobs generated by 2030. Furthermore, the transitional cost of cap-and-trade legislation is reduced by investment in efficiency because fewer new energy facilities are needed and fewer upgrades are needed in existing facilities to help meet emissions ceilings—creating significant additional consumer savings.

"This analysis directly addresses any questions lawmakers may have about the huge impact energy efficiency can have on making cap-and-trade more affordable for Americans," said Steven Nadel, Executive Director of ACEEE. "As members of Congress continue their consideration of energy and climate policy, they must realize that the energy efficiency provisions in these bills will save Americans money on their energy bills and create much needed jobs."

See <http://www.aceee.org/press/0906waxman.htm> for the full press release.

Details on ACEEE's analyses of the House legislation can be found at <http://aceee.org/energy/national/index.htm>.

New \$300 Million Infusion of Funding Boosts Carbon Capture, Solar Energy and High Gas Mileage Cars and Trucks

From Sustainable Energy Coalition/SUN DAY Campaign:

U.S. Energy Secretary Steven Chu has announced more than \$300 million worth of investments that will boost a range of clean energy technologies - including carbon capture from coal, solar power, and high efficiency cars and trucks. The sum includes an investment of up to \$240 million for the development of high efficiency commercial and passenger vehicles. In addition, 24 new competitively-selected solar projects to advance photovoltaic (PV) technology research, development, and design will be eligible for up to \$22 million from the President's American Recovery and Reinvestment Act. Finally, \$11.3 million are targeted for nine projects that will develop pre-combustion carbon capture technologies that can reduce CO₂ emissions in future coal-based integrated gasification combined cycle power plants.

See <http://www.energy.gov/news2009/7453.htm>.

State News

Nevada: Company Seeks Geothermal License Near Gabbs

OHm Geothermal, recently formed company based in Fernley, Nevada, is seeking a license to do subsurface imaging on county property near Gabbs, according to pahrumpvalleytimes.com. If geothermal potential is discovered, the company would enter into a two-stage lease agreement to develop it.

"Our ultimate goal is to build a geothermal facility on county-owned property if the resource were found suitable and to give Nye County a boost by providing tax dollars," Kyle Chisholm, director of research and development, for OHm Geothermal LLC told press. "The main benefit to the county should we find it on the county-owned property, we can essentially bypass the BLM. The county would retain all the royalty for the geothermal which is huge."

See <http://www.pahrumpvalleytimes.com/2009/Jun-05-Fri-2009/news/29154058.html>.

Oregon: Newberry Project to Receive Federal Funds

Davenport Power's geothermal efforts near Newberry will receive \$80 million in federal stimulus funds, according to pddnet.com. The project was stalled when two test wells reveals heat, but not enough water for a commercial plant. The company is now drilling smaller wells and applying for grants for enhanced geothermal technologies, according to the article.

"We're a long ways from actually receiving a grant but we're taking a serious look at it," Perry said. "We remain hopeful there will be (hot water) there, but at the same time, we clearly have areas where there is not water and Newberry, because of the heat and other factors, may turn out to be an excellent situation for (Enhanced Geothermal Systems)."

See <http://www.pddnet.com/news-ap-geothermal-power-plan-gets-federal-funds-060709/>.

International News

Australia: Bidding Open for Geothermal Applications

Round 2 of the A\$50 million (US\$39.8 million) Geothermal Drilling Program is open and companies are invited to submit applications for grants of up to A\$7 million (US\$5.6 million), according to energycurrent.com. Round 1 applicants MNGI Pty Ltd and Panax Geothermal Limited received A\$14 million in April 2009.

Opening the invitation for Round 2, Minister for Resources and Energy, Martin Ferguson said, "Geothermal energy is a renewable energy source with enormous potential in Australia; however, the Government recognizes technical development costs are high." He added, "The Australian Government is pleased to be able to support drilling at the first stage of development as part of its A\$4.5 billion (US\$3.5 billion) Clean Energy Initiative."

See <http://www.energycurrent.com/index.php?id=3&storyid=18610>.

Ethiopia: President Urges Geothermal Development in East Africa Countries

At a three-day "Decision Makers Workshop on Geothermal Energy," President Girma Woldegiorgis urged East African countries to attach prime attention to develop geothermal resources, according to isria.com. Girma said Africa has not benefitted from geothermal energy in a meaningful manner though the resources are abundant, and urged developers and international organizations to invest.

Minister of Mines and Energy Alemayehu Tegenu said, "Ethiopia's potential from renewable resources is about 60,000 MW. Of this about 5000 MW electricity is from geothermal source."

The workshop was organized by the United Nations Industrial Organization, International Center for Science and High Technology (ICS), the African Union, German Geological Survey, International Geothermal Association, and GSE.

See http://www.isria.com/pages/9_June_2009_22.htm.

Indonesia: World Bank Provides \$500 million for Geothermal Power in Indonesia

The World Bank will finance a US\$500 million loan to PT Pertamina Geothermal Energy (PGE) for nine geothermal power projects in the country, according to antara.co.id. The World Bank will provide the funds in the first quarter of 2010. PGE needs to raise a total of US\$3 billion for its projects.

See www.antara.co.id/en/view/?i=1244454653&c=BIZ&s.

Indonesia: Geothermal Developer Discusses Clean Energy Future, CO₂ Purification

PT Resources Jaya Teknik Management Indonesia (RMI), which operates three geothermal sites, recently began operation of a subsidiary company that takes the emissions from PT Krakatau Steel, purifies the CO₂ and makes it into a commercial product. A *The Jakarta Post* interview with RMI president director Rohmad Hadiwijoyo provides further details: See <http://www.thejakartapost.com/news/2009/06/07/rohmad-hadiwijoyo-we-need-develop-clean-energy.html>.

Mexico: Correction, Cerro Prieto Geothermal Project to Add 25 MW

The June 5 GEA Weekly Update ran a story, "Mexico: Cerro Prieto Report to Add 100 MW," reporting from Industrial Info Resources that Compania Federal de Electricidad (CFE) plans to add 100 MW to its Cerro Prieto geothermal power station by 2012,

<http://www.industrialinfo.com/showAbstract.jsp?newsitemID=147362>.

The information released by IndustrialInfo.com is not quite accurate. The CFE (Comision Federal de Electricidad) is certainly planning to install two new 50-MW condensing units in the Cerro Prieto geothermal field (the CP-V geothermal-electric project), but the project includes dismantling two old units of 37.5 MW each that are currently in operation in the oldest sector of the field known as CP-I. The CFE's idea is to generate 100 MW with the same rate of steam that is presently used to generate 75 MW, since the new units shall be more efficient and require less steam per MWh. So, the net increase in the installed capacity when the CP-V project starts to operate in 2012 will be 25 MW, not 100 MW as erroneously states the note. The total installed capacity in Cerro Prieto will increase from 720 to 745 MW.

Indonesia: Dutch Investors Interested in West Java Geothermal

Several Dutch investors are interested in a geothermal project in Garut, West Java, a Rp 170 billion investment that would produce at least 330 MW of electricity, according to tempointeractive.com. Shares will be auction in 2009 and 2010. "The initial investment will be disbursed next month," according to Garut Natural Resources and Mining Office chief Widiyana.

Sites of interest are Mount Papandayan (160 MW), Mount Masigit (100 MW), Mount Arinem (70 MW), Mount Pangrango (150 MW), and Mount Ciremai (50 MW).

See <http://www.tempointeractive.com/hg/nasional/2009/06/05/brk,20090605-180268,uk.html>.

Notices

Conference Call for GEA Members re: Policy Mission to Indonesia

The International Trade Administration of the U.S. Department of Commerce is hosting a clean energy policy mission to Indonesia and is seeking U.S. private sector participation.

Indonesia has the potential to produce an estimated 27,000 MW of electricity from geothermal sources. The Indonesian government is pushing energy expansion in support of 20,000 MW of new energy from renewable sources, with 4600 MW set aside for geothermal development.

The mission is tentatively scheduled for July 22-24 and will take place in Jakarta, Indonesia. Mission participants will join a delegation of U.S. Government officials for meetings with key Indonesian Ministries on policy challenges facing the development of Indonesia's considerable renewable energy resources. Participants will have the opportunity to shape the agenda to fit their company's or their industry's needs.

The Geothermal Energy Association will host a conference call with officials from the Department of Commerce for interested GEA member companies at 4pm EST, Wednesday, June 17. Please contact Leslie Blodgett in advance for call-in information at leslie@geo-energy.org ("Indonesia Conference Call" in subject line) or by phone, 202-454-5241.

Airborne Hyperspectral Surveys of Geothermal Areas, Nevada, August 1-4

The Aerospace Corporation, a non-profit company which operates a Federally Funded Research and Development Center (FFRDC), will be conducting airborne hyperspectral surveys in Nevada later this summer (early August). The survey will focus on several geothermal areas of interest – particularly in Esmeralda and Churchill Counties, Nevada. Aerospace would like to collaborate with geothermal companies and apply R&D funds to conduct airborne surveys for geothermal resources. Two powerful state of the art hyperspectral sensors will be on board the aircraft: Aerospace's SEBASS hyperspectral sensor; combined with SpecTIR's ProspecTIR sensor. The airborne survey will also include a FLIR long wave bolometer.

SEBASS captures mid to long wave infrared spectral measurements within the thermal emissive range and SpecTIR's ProspecTIR captures the very near infrared to short wave infrared. The combined sensors provide an unrivaled full spectral hyperspectral capability. This co-locating of hyperspectral sensors can collect over 600 channels of spectral information from the visible to long-wave infrared.

With enough surveys in a general area, clients can share nonrecurring costs (e.g., deployment costs). The insight gained could be extremely valuable to companies that are exploring for geothermal resources in and around the state of Nevada.

Approach:

A - Fly over a known geothermal area of interest and create a "baseline" of the site – using shortwave, and mid-long wave hyperspectral sensors.

B - Based upon discussions with a geothermal company, the Twin Otter aircraft (with the same combined sensor platform) subsequently flies over a prospective area of interest and map various epithermal spring deposits - such as sinter and note other mineralization features which could be indicative of a hydrothermal system.

C - Work with geologists to discuss and evaluate how hyperspectral airborne surveys can contribute to the conceptual model of a hydrothermal system.

To learn more about how the hyperspectral airborne survey can help with geothermal exploration - please contact: Karen L. Jones; 703 812-0623; karen.l.jones@aero.org.

CEC Program Opportunity Notice for Matching Funds for ARRA Applications

The Energy Commission is planning to release a solicitation (Program Opportunity Notice or PON) inviting applicants to request match funding from the Commission for projects proposed to USDOE under the ARRA funding programs. Applicants will be asked to submit a preliminary, brief application to the Commission describing their project and requesting match funding. The Commission will screen the applications and for those that pass, a letter of intent to provide match will be supplied. Applicants will then have to complete the application to the USDOE. If the applicants receive an award, then the applicants will be eligible for the match.

Below is the brief information The Energy Commission is sending out:

Energy Commission Announcement Document

The Commission will hold a workshop on June 19th, in Sacramento, for parties interested in this PON. The announcement for the PON will come out soon.

For more information, please contact:

Gail Wiggett, gwiggett@energy.state.ca.us

or Sandra Fromm, sfromm@energy.state.ca.us.

DOE Announces New Geothermal Funding Opportunities

From the Office of Geothermal Technologies, DOE:

The Geothermal Technologies Program (GTP) at the United States Department of Energy (DOE) would once again like to bring your attention to THREE funding opportunities announcements (FOA) for awards in geothermal technologies. On May 27, 2009, President Obama announced \$350 million of American Reinvestment and Recovery Act funding in support of geothermal technologies. GTP would like to encourage you to review the opportunities and to register at www.fedconnect.net as soon as possible. By registering, you will receive automatic notifications of amendments and modifications to the open FOAs. These are wonderful opportunities to explore projects that reflect the broad portfolio of geothermal technologies with the potential to exponentially advance deployment. Information on all three announcements can be found at:

https://www.fedconnect.net/Fedconnect/PublicPages/PublicSearch/Public_Opportunities.aspx

1. Recovery Act: Geothermal Technologies (attached) will close on July 22, 2009 at 11:59pm (EST). Application forms and instructions are available at: https://www.fedconnect.net/Fedconnect/PublicPages/PublicSearch/Public_OpportunitySummary.aspx
2. Enhanced Geothermal Systems Component Research and Development/Analysis (attached) will close on July 17, 2009 at 11:59pm (EST). Application forms and instructions are available at <https://e-center.doe.gov/iips/faopor.nsf/UNID/762FF27668B2EE82852575C30070422D?OpenDocument>.
3. Enhanced Geothermal Systems Demonstration (attached) will close on July 30, 2009 at 11:59pm (EST). Application forms and instructions are available at <https://e-center.doe.gov/iips/faopor.nsf/UNID/DFEA0DAF24386352852575C30077E428?OpenDocument>

Please forward this message widely to interested parties. The Geothermal Technologies Program looks forward to receiving your applications and growing our partnerships.

DOE Webcast Detailing Geothermal Funding Opportunities

The Department of Energy's Geothermal Technologies Program (GTP) has announced an upcoming webcast detailing funding opportunities under the American Recovery and Reinvestment Act, as recently announced by President Obama and Secretary Chu. This webcast will present the programmatic vision and goals of the GTP, the Funding Opportunity Announcement (FOA) application process, and technical facets of each FOA. Following the information session there will be an opportunity for questions and answers. The general public and geothermal communities are highly encouraged to submit pre-questions to GO.GEOTHERMAL@GO.DOE.GOV. The GTP hopes to use this Webcast as a platform to communicate their goals to heat up the future of geothermal technologies.

For an exact date and time of the webcast please monitor the GTP's website at www.eere.energy.gov/geothermal. The GEA will also send out future notices once a date for the webcast is determined.

California Proposes Changes to Oil, Gas, & Geothermal Resources Regulations (June 15)

The Division of Oil, Gas, and Geothermal Resources has filed a Notice of Proposed Rulemaking with the State of California Office of Administrative Law. The Notice of Proposed Rulemaking proposes to amend

Subchapter 4 (State-Wide Geothermal Regulations) of Division 2, Chapter 4 of Title 14 (Natural Resources) of the California Code of Regulations. Beginning on May 1, there will be a 45-day official comment period on this proposed action. This comment period will end at 5:00 p.m. on June 15. Any interested person, or his or her authorized representative, may submit written comments relevant to the proposed regulatory action to the Division. Please visit <http://www.consrv.ca.gov/dog/geothermal/Pages/Index.aspx> to review these proposed changes.

If you have any comments on these regulation changes or would like to propose additional changes to regulations, please submit these comments in writing to Elizabeth Johnson, ljohnson@consrv.ca.gov or Michael Woods, mwoods@consrv.ca.gov by June 15, 2009. These comments may be submitted via conventional mail or e-mail.

USDA Announces REAP Grant/Loan Guarantee Funding (July 31)

Today USDA announced the long-awaited availability of funding for the 2009 program year for the Rural Energy for America Program (REAP). The Department is now accepting REAP applications for grants and loan guarantees for renewable energy and energy efficiency systems, and also is including funding for feasibility studies. The deadline for applying for REAP funding is July 31. This year \$60 million is available for projects. USDA has made some changes to the application process for REAP, incorporating statutory changes from the 2008 Farm Bill. A summary of these changes and the full notice may be found here: <http://farmenergy.org/news/usda-announces-reap-funding-for-2009>.

Resource Development Opportunity, Contact, Nevada

Seeking someone to do a feasibility study and/or development of property to generate commercial electricity. The property is 30 acres of commercial property on highway 93, approximately 15 miles from the Idaho/Nevada border in Contact, Nevada. The property is in a hot water zone.

In the mid 1970's Phelps Dodge had many drilling sites for copper approximately three quarters of a mile from the property. Phelps Dodge was drilling and hit hot water that was too hot for them to continue drilling.

The property is also three quarters of a mile from high power transmission lines running north and south.

Please contact Ted Reddy, at 25653 S. Brentwood Dr. Sun Lakes, AZ 85248, by phone 480-707-2574, or by email, reddyteddy@hotmail.com.

Hannon Armstrong Announces Advisory Services for DOE Loan Guarantees

The American Recovery and Reinvestment Act expanded DOE Loan Guarantees and U.S. Treasury Tax Grants, providing renewable energy project developers a path for project funding, according to the Hannon Armstrong Web site. The company has launched an advisory service offering for industry members seeking to apply.

Vice President of Analytics and Structuring Nate Rose told press, "The outcomes vary rather substantially from existing project finance models, and vary between solar, wind, geothermal and biomass projects."

"Given our team's experience with DOE and OPIC loan guarantees, and our appreciation of how challenging this process is, we decided it makes sense to expand our Federal finance offer to include not just the application and its negotiation, but also the monetization of the capital required with this new structure," said Jeffrey Eckel, President and CEO.

See http://www.hannonarmstrong.com/index.php?option=com_content&task=view&id=28.

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 exists under a sole 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

Employment Opportunities

Green Jobs Network Adds Geothermal Job Board

The Green Jobs network of alternative energy job boards has added a new site, Jobs in Geothermal, available at <http://www.jobsingeothermal.com/>.

Vice President of Engineering, Ram Power, Inc.

Ram Power, Inc., a recently formed renewable geothermal and solar thermal project development company, with offices in Nevada and California has an immediate opening for a Vice President of Engineering. The candidate will be responsible for managing all aspects of Engineering and Procurement as it pertains to the company's current and future Solar and Geothermal Projects. This position reports to the President and CEO and works closely with other functional leaders in the company, including those in finance, business development, and marketing.

Responsibilities:

- Assist in developing strategic planning for and direction and control of project development activities.
- Provide technical direction and guidance, as well as hands-on project management for all solar and geothermal project development.
- Ensure the optimal application of technology and engineering resources to meet project development requirements.
- Direct the definition and procurement of geothermal and solar thermal power plants, and provide oversight of power plant and surface facility construction.
- Hire and direct a team of engineers from different disciplines to acquire necessary resources and plan to meet scheduled commitments.
- Ensure implementation of formal processes to support project development, including interconnection and transmission agreements.

Requirements:

- Strong operational and project management skills to manage logistics and time, as well as people and materials for multiple projects.
- Solid understanding of engineering technical issues/needs, financial, sales, and marketing as related to project design and development.

- Successful candidate must have at least 10 years engineering experience in the energy/renewables industry with primary experience in power plant technologies. Prior work experience in the area of steam power plants and Organic Rankine Cycle is an advantage. Prior work experience in solar and geothermal is preferred.
- Strong Engineering experience in Design, Analysis and Development of Renewable Energy Projects, as well as Proposal Drafting.
- Excel software knowledge to create estimates and manage projects to improve project profitability. Fluency in AutoCAD is essential.
- Knowledge of PPA's (Power Purchase Agreements), related building codes and NEC, as well as permitting process and ability to manage specification, procurement and delivery of equipment and material.
- Minimum of Bachelors Degree in Electrical or Mechanical/Chemical or Civil Engineering and 10 years demonstrated project management experience. PE (Professional Engineer) certification is an advantage.

Email resumes to info@ram-power.com or fax to: (775) 828-0904

Director of Development, California Operations, CalEnergy

CalEnergy Operation Corporation is an international leader in the development and production of energy from diversified fuel sources including geothermal, natural gas and hydroelectric. CalEnergy is currently looking for a Director of Development for California-based operations.

This individual will direct, coordinate and exercise functional authority over all activities associated with the development of the new geothermal power plants and other platform development opportunities:

- Administers the project construction contract, manages the use of consultants, and has fiscal responsibility for all costs to build the new plants.
- Directs and oversees the integration of the new plants into the current Imperial Valley operations consistent with the organization's policies and objectives. Qualified candidates will have a bachelor's degree in engineering, business administration, or related field or equivalent work experience.
- Eight years experience in managing power plant development and installation projects or power plant operations including three years supervisory responsibilities.
- Excellent oral and written communication skills, including presentation skills.
- Effective interpersonal skills and leadership abilities.

To apply for this position and view a complete job description please visit www.calenergy.com.

Drilling Program Manager, Major Geothermal Power Company in CA

A Geothermal Energy Company in Northern California is seeking a Drilling Program Manager to oversee all drilling operations of an 800+ acre expansion project. Please send updated resume and salary requirements. Experience as follows:

1. Experience managing successful geothermal drilling programs.
2. Leadership experience and management of drilling and support personnel.
3. Experience managing compliance with safety and environmental regulations.
4. A successful track record of improving business performance and meeting and managing against operating goals and budgets.
5. Exposure to drilling technology, service providers, contracts and risks.
6. Relationships with relevant parties within the geothermal drilling industry including, but not limited to: rig providers, contractors, vendors, consultants and qualified company men.
7. Thorough understanding of the contracting and procurement processes required for cost effective drilling program management.

Contact: Mike Erney, Project Director – Alternative Energy, The Carmon Group:
(216) 328-9060 EXT 102
michaelerney@carmongroup.com
www.linkedin.com/in/michaelerney

Senior Director, Business Development, Major Geothermal Company

The Senior Director, Business Development is responsible for overseeing the Business Development function in North America for geothermal market. This role could quickly grow into a VP role and will oversee a sales team currently consisting of 8 sales reps and will grow it by 50%.

Essential Functions:

- Direct and execute the business development strategy to achieve company goals and objectives.
- Identify and develop key strategic partnerships, both internally and externally.
- Responsible for negotiating PPAs and contract changes.
- Evaluate and analyze market expansion opportunities
- Build and lead a business development team that will assist the company towards completion of company goals
- Build relationships with internal departments so that all areas of the company are ready to execute when necessary.

Education, Experience, and Skills Required:

- Bachelor degree in engineering and MBA
- 10-15 years experience in Sales, Marketing, Business Development or Operations roles (preferably a mix of sales and operations in energy industry)
- Willingness to travel up to 60% nationally and internationally
- Ability to negotiate contracts with potential business affiliates
- Experience in the renewable energy field a strong plus
- Proven track record maintaining confidentiality and dealing with company proprietary information

Contact:

Paige Carratturo
Executive Recruiter
Richard Wayne & Roberts
877-236-0899 (direct)
206-855-9746 (fax)
paige@rwr.com
<http://www.linkedin.com/in/paigecarratturo>

Geothermal Project Supervisor, Central American Bank for Economic Integration, Costa Rica

The Central American Bank for Economic Integration (Banco Centroamericano de Integración Económica, BCIE) is looking for an expert in geothermal energy to supervise a project in Costa Rica. It is called Las Pailas and it is financed through BCIE.

Contact:

Ana Karina Rubi de Reyes, Oficial de Consultorias, BCIE-Tegucigalpa, Honduras
Tel. +504-240-2243, Ext. 5214
Fax. +504-240-2228

Visit the BCIE Web site, www.bcie.org - www.cabei.org

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.

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

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.

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.

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

Requests for Proposals (RFPs)

RFP for Smart Grid Demonstrations, DOE, American Recovery and Reinvestment Act

The U.S. Department of Energy announces its intent to request proposals for Smart Grid Demonstrations. Through this RFP, DOE seeks regionally unique demonstrations to verify smart grid technology viability, quantify smart grid costs and benefits, and validate new smart grid business models, at a scale that can be readily adapted and replicated around the country. Areas of interest include: Smart Grid Demonstrations, Synchrophasors, and Energy Storage. \$615 million expected to be available, up to 36 awards anticipated. Closing date to be announced with release of RFP. For more info, contact Keith Carrington at keith.carrington@netl.doe.gov or go to:

<http://www07.grants.gov/search/search.do;jsessionid=9x3VJydGP2TfWHPRK9mfnpHLqsWpm1TQmDJTz>

[S6XLDp1QJKpb2SM!-1267850137?oppId=46836&flag2006=false&mode=VIEW](http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&mode=VIEW). Refer to Sol# DE-FOA-0000036. (Grants.gov 4/16/09)

RFP for State Energy Program, DOE

The U.S. Department of Energy requests proposals for the State Energy Program (SEP). This program provides formula grants to State and Territorial energy offices to design and carry out renewable energy and energy efficiency priorities. \$25 million expected to be available, up to 56 awards anticipated. Due dates based on state/territorial program years. For more info, contact Lisa Kuzniar at lkuzni@netl.doe.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46791>. Refer to Sol# DE-FOA-0000073. (Grants.gov 4/14/09)

RFP for Contribution of Cost Share for Transportation Related Recovery Act RFPs, CEC

The California Energy Commission requests proposals for the American Recovery and Reinvestment Act Cost Share: Alternative and Renewable Fuel and Vehicle Technology Program. Through this RFP, the CEC will contribute cost share to applicants who are submitting proposals to the Federal government in response to a transportation-related Recovery Act funding opportunity announcements. All projects must be based in California. Eligible Recovery Act solicitations include, but are not limited to: Transportation Electrification (Round 1), DOE, DE-FOA-0000028; Energy Efficiency and Renewable Energy Research - Electric Drive Battery and Component Manufacturing Initiative, DOE, DE-FOA-0000026; Clean Cities (Rounds 1 and 2), DOE, DE-PS26-09NT01236-04; and Transit Investments for Greenhouse Gas and Energy Reduction, DOT, FTA-09005-TIGGER-TRI. \$176 million expected to be available, due dates vary by solicitation. For more info, contact Sarah Williams at skawilli@energy.state.ca.us or go to: <http://www.energy.ca.gov/contracts/transportation.html#PON-08-010>. Refer to PON-08-010.

RFP for Renewables Purchase in Southwest, U.S. Navy

The U.S. Department of the Navy announces its intent to request proposals for the purchase of competitively priced renewable electrical power through power purchase agreements at Naval and Marine Corps installations in the Naval Facilities Engineering Command Southwest AOR. The Navy seeks systems that are constructed, owned, operated, maintained and repaired by the successful offeror(s) on Government property located within the installation boundaries. Up to 5 awards anticipated. The RFP will be issued "within the next month." For more info, contact Russell Dominy at Russell.dominy@navy.mil or go to: <https://www.fbo.gov/?s=opportunity&mode=form&id=2d9716078bff363ae320d7e111d4b2d0&tab=core&view=1>. Refer to Sol# N6258309R0085. (FBO 4/17/09)

RFP for Technology and National Research Priorities, American Recovery and Reinvestment Act

The National Institute of Standards and Technology requests proposals for the Technology Innovation Recovery Act Measurement Science and Engineering Research Grants Program: Providing the Technology Infrastructure to Address National Priorities. Priority research areas include, but are not limited to: Energy, environment and climate change; manufacturing; and physical infrastructure. \$35 million expected to be available, up to 60 awards anticipated. Responses accepted on a continuous basis. For more info, contact Christopher Hunton at christopher.hunton@nist.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46063>. Refer to Sol# 2009-NIST-ARRA-MSE-RESEARCH-01. (Grants.gov 3/16/09)

RFP for Energy Efficiency and Conservation Block Grants, DOE, American Recovery and Reinvestment Act (June 25)

The U.S. Department of Energy request proposals for Energy Efficiency and Conservation Block Grants (EECBG). This program will provide financial assistance to eligible states, cities, counties and Indian Tribes to create and implement strategies to reduce energy use and fossil fuel emissions, and improve efficiency in the building, transportation, and other appropriate sectors. Areas of interest include, are not limited to: Development of efficiency and conservation strategies and programs for buildings and transportation, technical consultant services; building energy audits; energy efficiency retrofits; building codes programs; reduction and capture of methane and greenhouse gases; traffic signals and street lighting; and renewable energy technologies on government buildings. \$3.1 billion expected to be available. Applications from States due 5/26/09. Applications from Local Governments and Tribes due 6/25/09. For more info, contact Lisa Kuzniar at lkuzni@netl.doe.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46340>. Refer to Sol# DE-FOA-0000013. (Grants.gov 3/26/09)

RFP for American Recovery Program, Department of Commerce (June 30)

The U.S. Department of Commerce, Economic Development Administration (EDA) requests proposals for the EDA American Recovery Program, for projects that advance economic growth by assisting communities and regions experiencing chronic high unemployment and low per capita income to create an environment that fosters innovation, promotes entrepreneurship, and attracts increased private capital investment. Priority consideration will be given to regions that have experienced sudden and severe economic dislocation and job loss due to corporate restructuring. Applicants may apply for the following programs: 1) Public Works and Economic Development Facilities Program, and 2) Economic Adjustment Assistance Program. Responses due 6/30/10. For more info, including Region-specific contacts, go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=45786>. Refer to Sol# DA03102009RECOVERYACT. (Grants.gov 3/5/09)

RFP for Green Jobs Training, DOL, American Recovery and Reinvestment Act (June 30)

The U.S. Department of Labor announces its intent to request proposals for Recovery Act Competitive Grant Opportunities. DOL anticipates \$500 million will be targeted at research, labor exchange, and job training projects that prepare workers for careers in energy efficiency and renewable energy as defined in the Green Jobs Act: Energy efficient building, construction, and retrofitting; renewable electric power; energy efficient and advanced drive train vehicles; biofuels; deconstruction and materials use; energy efficiency assessment for residential, commercial, or industrial sector, and manufacturing of sustainable products using sustainable processes. \$250 million will be targeted at other high growth and emerging industry sectors. DOL intends to post the RFPs no later than 6/30/09. For more info, go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46337>. (Grants.gov 3/26/09)

RFP for Environmental Implications of Emerging Technologies, NSF (September 15)

The National Science Foundation requests proposals for Environmental Implications of Emerging Technologies, for research to develop and test the environmental effects of new technologies. Areas of interest include, but are not limited to: The development and refinement of sensors and sensor network technologies; innovative production processes, waste reduction, recycling, and industrial ecology technologies; and evaluation of the effect of increased usage of renewable resources on water supply and land use. Individuals awards generally NTE \$80K each. Responses due 9/15/09. For more info, contact

Paul Bishop at pbishop@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030. Refer to Sol# PD-09-1179. (Grants.gov 3/23/09)

RFP for Energy for Sustainability, National Science Foundation (September 15)

The National Science Foundation requests proposals for the Energy for Sustainability Program. This program supports research and education in energy production, conversion, and storage, and is focused on energy sources that are environmentally friendly and renewable, including solar, wind and biomass. Average individual awards \$100K. Responses due 9/15/09. For more info, contact Trung Nguyen at tnguyen@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026. Refer to Sol# PD-09-7644. (Grants.gov 3/6/09)

RFP for Thermal Transport Processes, National Science Foundation (September 15)

The National Science Foundation requests proposals for the Thermal Transport Processes Program, for engineering research aimed at gaining a basic understanding of the microscopic and macroscopic levels of thermal transport phenomena (heat and mass transfer) underlying energy conversion and conservation, the synthesis and processing of materials, cooling and heating of infrastructure and equipment, and more. An active understanding of thermal transport in energy conversion and conservation processes is vital to reduce the nation's dependence on petroleum. Awards NTE \$100K. Responses due 9/15/09. For more info, contact Theodore Bergman at tbergman@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367. Refer to Sol# PD-09-1406. (Grants.gov 3/9/09)

RFP for National Lab Partnerships for Energy Research, DOE (November 9)

The U.S. Department of Energy requests proposals for Experimental Program to Stimulate Competitive Research (EPSCoR); Building EPSCoR-State/National Laboratory Partnerships. This RFP will support collaborative partnerships between National Laboratories and academic or industrial researchers to conduct nationally competitive, energy-related research. \$1.7 million expected to be available, maximum awards generally \$600K. Pre-applications are required and are due 6/5/09, final proposals due 11/9/09. For more info, contact Marilyn Oyler at marilyn.oyler@science.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/33EE94649665FEA8852575A1006CCB0A?OpenDocument>. Refer to Sol# DE-PS02-09ER09-11. (Grants.gov 4/23/09)

RFP for Renewable Energy Resources, Los Angeles (March 11, 2010)

The Los Angeles Department of Water and Power (LADWP) has issued a rolling request for proposals (RFP) designed to seek renewable energy proposals on a continuous basis throughout the year. The rolling RFP calls for proposals for approximately 1,000 GWh per year of renewable energy resources such as solar, wind and geothermal power. This amount represents nearly 4% of LADWP's power sales.

LADWP is looking to acquire renewable energy resources through either immediate ownership of power generation facilities or through long-term power purchase agreements. Under the terms of the new RFP, green power providers can submit their proposal anytime throughout the year. LADWP will open and consider the proposals on a monthly basis, and could then begin evaluation and negotiation of a particular project right away.

LADWP says it will give preference to proposals that offer immediate facility ownership or to long-term PPAs that have an ownership option. Additionally, LADWP is targeting solar projects located in the high deserts of California, close to LADWP's existing transmission system. The application deadline is March 11, 2010.

RFP for Smart Grid Investments, DOE, American Recovery and Reinvestment Act (March 31, 2010)

The U.S. Department of Energy announces its intent to request proposals for the Smart Grid Investment Grant Program. Through this program, DOE seeks to stimulate the rapid deployment and integration of advanced digital technology that is needed to modernize the nation's electric delivery network for enhanced operational intelligence and connectivity. The program will support projects that promote deployment, including development of component technologies. Individual award range anticipated to be \$500K to \$5

million. The RFP will open on or about 6/17/09. Three due dates anticipated: 7/29/09, 12/2/09, and 3/31/10. For more info, contact Donna Williams at Smart-Grid.NOIComments@hq.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/39C0D96768F2083F8525759A0068F216?OpenDocument> <http://www07.grants.gov/search/search.do;jsessionid=9x3VJydGP2TfWHPRK9mfnpLqsWpm1TQmDJTzS6XLDp1QJKpb2SM!-1267850137?oppId=46833&flag2006=false&mode=VIEW>. Refer to Sol# DE-FOA-0000058. (Grants.gov 4/16/09)

Upcoming Events

Webcast on American Recovery and Reinvestment Act, Geothermal Technologies Program, DOE, Date TBA

The Department of Energy's Geothermal Technologies Program (GTP) is excited to announce an upcoming webcast detailing funding opportunities under the American Recovery and Reinvestment Act, as recently announced by President Obama and Secretary Chu. This webcast will present the programmatic vision and goals of the GTP, the Funding Opportunity Announcement (FOA) application process, and technical facets of each FOA. Following the information session there will be an opportunity for questions and answers. The general public and geothermal communities are highly encouraged to submit pre-questions to GO.GEOTHERMAL@GO.DOE.GOV. For an exact date and time of the webcast please monitor the GTP's website at www.eere.energy.gov/geothermal. This is an exciting time for the geothermal community and the GTP hopes to use this Webcast as a platform to communicate our goals and heat up the future of geothermal technologies. We hope you will join us!

Geothermal Lease Sale: California, Nevada, and Utah, July 14 (Reno, NV)

The U.S. Bureau of Land Management has announced new geothermal lease sales in California, Nevada, and Utah in July 2009. The "competitive oral sale of Federal lands for geothermal leasing" will take place on July 14, at the BLM Nevada State Office in Reno.

In Nevada, 112 parcels with a total of 337,000 acres are offered. See BLM Nevada: http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal0/ggeothermal_leasing.html.

In California, 19 parcels with a total of 11,390 acres are offered. Check for updates: <http://www.blm.gov/ca/st/en/prog/energy/geothermal.html>.

In Utah, one parcel of 228 acres is for sale. See BLM Utah: http://www.blm.gov/ut/st/en/prog/energy/geothermal0/july_2009_geothermal.html.

GEA: Direct Use/Small Power Finance Workshop, Oregon Institute of Technology (OIT), August 12-13 (Klamath Falls, OR)

GEA in cooperation with OIT will host a geothermal direct-use and small power workshop in Klamath Falls, Oregon in the summer of 2009. The format would be an all day workshop with a site tour the following day. Included in the workshop agenda will be the how-to's of financing a small power/direct use project, direct use technology, presentations of small projects and direct use projects today and information about drilling and exploration for such projects. For more information contact Kathy Kent at kathy@geo-energy.org.

GEA: Geothermal Energy Expo/GRC Annual Meeting, October 4-7 (Reno, NV)

The 2009 Geothermal Energy Expo and GRC Annual Meeting will be held October 4-7 at the Peppermill in Reno, Nevada. For more information about the Geothermal Energy Expo, visit: <http://www.geo-energy.org>.

Renewable Energy Indonesia 2009 Trade Show, October 14-17 (Jakarta, Indonesia)

Indonesia has 45% of the world's geothermal energy resources. Renewable Energy Indonesia 2009 is the 5th international exhibition for all renewable energy technologies. It will be held at the International Exhibition Centre at Kemayoran, October 14-17, 2009.

For more information: www.pamerindo.com.

New Date! SMU Geothermal Conference, November 3-4 (Dallas, TX)

SMU Geothermal Laboratory has announced new dates for this year's conference, Geothermal Energy Utilization Associated with Oil and Gas Development. From SMU: We postponed the June 18-19 conference to November to give more time for working with companies responding to the many requests for proposals, and to give new projects time for installation so they can report the progress. We apologize for any inconvenience by changing the dates. Looking forward to seeing you in November!

Topics Presented: Power Generation Technology Advancements, Geothermal Resource Exploration and Assessment, Reservoir Engineering, Fracturing, Geopressure Development, Tight Gas Sands Development, Enhanced Geothermal Systems - International, Green Power for Utilities, Renewable Energy Credits and Tax Incentives, Economics and Business Plan, Transmission Needs, Regulation Laws and Leasing, Financing, Demonstration Sites

Submit abstracts for consideration to: blackwel@smu.edu or call 214-768-2745 to discuss an idea. Deadline for submission is September 1, 2009.

More conference details online - <http://smu.edu/geothermal>.

XVII Annual Congress and Annual Assembly, Mexican Geothermal Association, November 13 (Mexico)

The Mexican Geothermal Association (AGM: Asociacion Geotirmica Mexicana) will hold its XVII Annual Congress and Annual Assembly by November 13, 2009, at the CFE (Comision Federal de Electricidad) offices in Morelia, Mich., Mexico.

Preliminary program:

9:00 - 10:00 hours: Registration
10:00 - 13:00 hours: Technical presentations
13:00 - 14:00 hours: Lunch
14:00 - 17:00 hours: Technical presentations
17:00 - 18:30 hours: Ordinary Assembly

Fees: AGM's members: 750 Mexican pesos (~55 USD). Non-members: 1,100 Mexican pesos (~85 USD). Students and retired: 50%. Fee includes lunch, transactions and coffee breaks.

Deadlines:

Submission of abstracts: July 24
Acceptation notification: August 7
Submission of extended papers: September 4
Pre-registration: November 3

Complete call for papers (in Spanish) at: <http://www.geotermia.org.mx> (See: Congreso 2009)

More information: Luis C.A. Gutierrez-Negrin (AGM's secretary): l.g.negrin@gmail.com.



GEA Weekly Update

A newsletter for the geothermal industry written by Leslie Blodgett and Karl Gawell.
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