

Geothermal Energy Weekly

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Geothermal Energy Association

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January 8, 2009

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<http://www.geo-energy.org/updates.aspx>



National News

GEA Brings Geothermal Finance and Investment Together in NYC, Senate Majority Leader Harry Reid to Deliver Keynote Address

The Geothermal Energy Association brings you its New York Finance Forum next week at the Ritz Carlton in Battery Park. This will be an education session on geothermal energy investment designed to unite finance and investment heads of New York City. Senate majority leader Harry Reid, D-N.V., who has been a strong advocate for geothermal development, will deliver the keynote address. That evening, GEA will ring the closing bell at Nasdaq in Times Square. GEA member company Layne Christensen, based in Mission Woods, Kan., will join GEA executives and board members in ringing the bell.

Individual companies will give presentations on “Recent Models of Geothermal Success.” Other topics from speakers and panels will include “U.S. Market Outlook and Trends,” “Future Financial Needs of the Geothermal Industry,” “Federal Financial Incentive for Geothermal Development,” “Developing New Geothermal Resources,” “Geothermal 201: Examining key issues for Investors,” “Finance and Investment Dialogue,” and “Federal and State Legal and Regulatory Issues.”

Morning speakers include Karl Gawell, Executive Director of GEA; Arni Magnusson of Islandsbanki; Dan Kunz, US Geothermal; Eddie Sadan, Ram Power; Frank Monastero, Magma Energy Corporation; Brian Fairbank, Nevada Geothermal Power; Paul Thomsen, Ormat Technologies; Michael Ronzello, Pratt & Whitney Power

Systems; Richard Clayton, Raser Technologies; Halley Dickey, TAS; Toni Volpe, Enel North America; Vicky McDowell, US Treasury; Monique Fridell, USDOE; Ed Wall, USDOE; Rick Rodgers, Montgomery Street Financial; Diane Farrell, Export-Import Bank of the U.S; and Jonathan Weisgall, MidAmerican Energy Holdings Company.

Afternoon session speakers include: Bob Warburton, Vulcan Power Company; Subir Sanyal, GeothermEx; Lou Capuano, ThermaSource, LLC; C.J. Arrigo, Glacier Capital Partners; Tom King, US Renewable Group; Marc Murnaghan, Cormark Securities Inc.; Jimmy Leung, Raymond James; John McIlveen, Jacob Securities Inc.; Todd Bright, Denham Capital; Paul Leggett, Morgan Stanley; John McKinsey, Stoel Rives; John Pierce, Wilson Sonsini Goodrich & Rosati; and Dennis Gilles, Calpine Corporation.

GEA thanks the event's sponsors: Islandsbanki, Vulcan Power Company, Layne Christensen, Stoel Rives LLP, Ormat Technologies, US Geothermal, SNC-Lavalin Thermal Power, Enel North America, and Glacier Partners Corp.

The response to the event has been tremendous. Luckily, GEA has been able to expand the available room capacity so you can still register for this event. To register, go to: <http://www.geo-energy.org>.

Cap and Trade Bill May Not Pass This Year, Says Bingaman, but EPA Moving Ahead

Chairman of the U.S. Senate Energy and Natural Resources Committee Sen. Jeff Bingaman, D-N.M., said Congress may not be able to pass cap and trade legislation this year, according to news.yahoo.com. He added that there is a concern that if it is not passed, emissions reductions will be forced by federal regulators. Other legislation in the works could expand the federal stimulus \$2.3 billion manufacturing tax credit by \$2.5 billion.

Meanwhile, however, the EPA is moving forward to regulate greenhouse gas emissions. But, Republican Senator Lisa Murkowski of Alaska will offer an amendment on the Senate floor as soon as Jan. 20 aimed at halting U.S. EPA regulations on climate change, according to eeneews.net. The vote on the Murkowski amendment is being seen as a test for the Administration and environmental groups' strength on the issue.

See http://news.yahoo.com/s/ap/20100105/ap_on_bi_ge/us_energy_bingaman_new_mexico and <http://www.eeneews.net/Greenwire/2010/01/08/1/>.



Company News

Geysir Green Energy: New CEO Announced

The board of Geysir Green Energy (Geysir) has, in accordance with its commercial bank, made the decision to decrease the company's debts by selling its assets over the next quarters. Following this new policy formulation, Asgeir Margeirsson has decided to resign as Chief Executive Officer. Alexander K. Gudmundsson, Geysir's Chief Financial Officer has been hired in his place.

"A while ago I announced that if this were to be the case, I would not be the right person to lead the process. I have been working on the growth and rise of Geysir Green Energy ever since the company was founded and believe it is necessary that others be responsible for the work that now lies ahead. As a result, the board and I have agreed that I shall be released from my position as CEO. I wish the new CEO the best of luck and thank the board and employees of Geysir for an enjoyable working relationship over the past years," says Asgeir Margeirsson.

For more, see <http://www.geysirgreenenergy.com/news/nr/146>.

Lithium Corp.: Additional Nevada Lithium Project Acquired

Press Release, January 6, Reno NV — Lithium Corp. (LTUM - OTCBB), (the "Company", or Lithco) is pleased to announce that it has recently acquired an additional lithium brine prospect in southern Nevada, in the general area of the producing Silver Peak lithium brine field in Esmeralda County.

The West Big Smoky Valley property was acquired through staking claims in this highly competitive region. The placer claims staked here cover an area of approximately 2720 acres. Earlier local reconnaissance sampling determined that anomalous values for Lithium occur in the Playa sediments over quite a large area. Sampling possibly indicates that the most prospective areas on the Playa may be on the newly staked block proximal to the southern margin of the basin, where it is possible the structures that are responsible for the warm water encountered in wells locally may also have influenced Lithium deposition in sediments.

For more, see <http://www.usetdas.com/TDAS/NewsArticle.aspx?NewsID=14757>.

Nevada Geothermal Power: Faulkner 1 Plant Production Increased to 30 MW

Press Release, December 28 — Nevada Geothermal Power Inc. is pleased to announce increased production from NGP's flagship Faulkner 1 power plant and positive interim results from its current drilling program designed to further optimize plant output.

Faulkner 1 output has been increased 3 MW to 30.5 MW (net). To allow for increased brine production and plant output, NGP constructed a pipeline and is injecting 500 gallons per minute (gpm) of spent geothermal brine from the plant into existing Well 44-14. Converting the unutilized well for injection was achieved at a cost of less than US\$150,000.

For more, see

http://www.nevadageothermal.com/s/News.asp?ReportID=378475&_Type=News&_Title=FAULKNER-1-PLANT-PRODUCTION-INCREASES-TO-30-MW-NET-WELL-55-15-INTERSECTS-TA...

Nevada Geothermal Power: Successful Drilling to Date to Increase Production

Press Release, January 7, Vancouver, B.C. -- Nevada Geothermal Power Inc. (NGP) (TSX-V: NGP, OTC-BB: NGLPF) is pleased to announce that it has successfully completed two new deep injection wells that, when

connected, the Company believes will enable the Faulkner 1 plant to operate at approximately 40MW (net). Two or more additional wells will be drilled as part of the current program to further optimize production from the existing plant.

"Drilling progress has been faster than anticipated and the overall program is expected to be completed significantly under budget. The first two injection wells exceed expectations and NGP believes that the results will enable us to considerably enhance production at Faulkner 1," stated Brian Fairbank, President and CEO of Nevada Geothermal Power Inc.

Injection Well 55-15, ½ mile west of the existing production well field and 1300 feet north of existing injection Well 57-15, was drilled to a total depth of 7707 feet. Maximum temperature recorded in the Well 55-15 was 395°F (202°C).

For more, see

http://www.nvadageothermal.com/s/News.asp?ReportID=379268&_Type=News&_Title=ANNOUNCES-SUCCESSFUL-DRILLING-TO-DATE-WILL-INCREASE-PRODUCTION-AT-BLUE-MOUN...

Ram Power: Ram Brings Geothermal a Step Closer to Financial Feasibility

A December 30 New York Times article, "Ram Brings Geothermal a Step Closer to Financial Feasibility," features Ram Power Corp. A new 72-MW geothermal development in Nicaragua will be completed in two phases. A \$77 million credit facility is in place for the first phase of 46 MW, to be completed by April 2011. A second phase will expand the project to 72 MW and will be completed by the end of 2011.

According to the article: "Also helping Ram's case is that it's basically a consortium of to-tier geothermal companies. In October this year, Ram Power, Polaris Geothermal, Western GeoPower and GTO Resources decided to join forces. As a single unit, it also has plans to buy or build another 50 to 100 megawatts of generation within the next year or so."

See <http://green.venturebeat.com/2009/12/30/ram-brings-geothermal-a-step-closer-to-financial-feasibility/>.

Ram Power. \$77 Million Debt Financing Closing Announced

Press Release, December 30, Reno NV – Ram Power, Corp. (TSX:RPG) ("Ram Power"), through its wholly owned subsidiary Polaris Energy Nicaragua S.A. ("PENSA"), is pleased to announce the closing of a \$77 million credit facility. The consortium of lenders includes Central American Bank for Economic Integration ("CABEI"), Nederlandse Financierings-Maatschappij voor Ontwikkelingslanden N.V. ("FMO"), Export Development Canada ("EDC"), and Cordiant Capital ("Cordiant"). CABEI, FMO, and EDC acted as Co-Arrangers of the facilities. CABEI will act as Administrative Agent and FMO will act as Environmental Agent subject to approval by the project lenders.

The proceeds from this credit facility together with equity previously invested fully funds the completion of the San Jacinto-Tizate Phase 1 geothermal power project. The Phase I project will expand production of the existing 10 MW facility to 46 MW by April 2011. No additional drilling is required to achieve this expanded production. Phase II of the project will increase the 46 MW to 72 MW by the last quarter of 2011. Both phases of the project will use state-of-the-art single flash Fuji Turbine Generators. Upon completion of the Phase II project, the existing 10 MW power plant currently at the San Jacinto site will be decommissioned.

For more, see <http://www.prnewswire.com/news-releases/ram-power-corp-announces-77-million-debt-financing-closing-80262152.html>.

Raser Technologies. Nicholas Goodman Joins as Chief Executive Officer

Raser Technologies Inc. (NYSE:RZ) today announced that Nicholas (Nick) Goodman has been named Chief Executive Officer. Goodman will be responsible for all company functions and activities. He will join Raser during January 2010. Dick Clayton, currently Raser Principal Executive Officer, will continue as Executive Vice President and General Counsel working with Goodman.

Mr. Goodman has 15 years of extensive experience growing companies through project development and acquisition. He most recently served as Chief Executive Officer of TDX Power, an electric utility holding company and power generation project developer. Under his leadership, TDX Power has grown from \$3 million to over \$60 million in annual recurring revenues. At three different wholly owned projects of TDX Power, Inc., Mr. Goodman managed the initial development and conceptual design, as well as Federal licensing and permitting for Alaska's largest hydroelectric power project (330 MW), Alaska's second geothermal project and several of Alaska's largest wind diesel power projects. He also was responsible for securing project finance through a combination of public and private funding sources. In addition, he led the development of power plants for two military installations in Alaska as well as other sites in the US and abroad.

For more, see <http://www.rasertech.com/news>.

Standard Steam Canada Corp. Marketing IPO to Resume This Month

Standard Steam Canada Corp. plans to resume marketing for its initial public offering on January 11. The company's chief executive, Mike Zakroff told press they are looking to raise C\$65 million, stock to be priced in the C\$1.50-C\$1.95-a-share range. The company has eight geothermal projects in three U.S. states: Nevada, Idaho and Utah. The company will decide whether to proceed with the IPO in about three weeks. "If I don't see (an order) book that's attractive, then we'll pull the deal," Zakroff said. He added that the company could continue to fund itself as a private entity if necessary.

See http://online.wsj.com/article/BT-CO-20100107-711638.html?mod=WSJ_latestheadlines.



Renewable Energy and Climate Change

Western Renewable Energy Highlights of 2009

The Interwest Energy Alliance highlighted the significant attention given to renewable energy by policymakers in 2009 in an annual summary, "Western Renewable Energy Highlights of 2009." New activity occurred in utilities, state governments, federal agencies, the renewable energy industry and many other top stakeholders in states throughout the West in 2009.

See <http://www.interwest.org/documents/highlights/2009/index.htm>.

Energy Secretary Chu Announces \$47 Million to Improve Energy Efficiency in Information Technology and Communications Sectors

Press Release, January 6, Washington DC – Energy Secretary Steven Chu announced today that the Department of Energy is awarding \$47 million for 14 projects across the country to support the development of new technologies that can improve energy efficiency in the information technology (IT) and communication technology sectors. The data processing, data storage, and telecommunications industries are a crucial part of the American information economy. The rapid growth of these industries has led to an increase in electricity use, but improvements in the sector's energy efficiency can provide significant energy and cost savings. The energy efficiency projects announced today will reduce energy use and carbon pollution, while helping to develop a strong, competitive domestic industry.

"These Recovery Act projects will improve the efficiency of a strong and growing sector of the American economy. By reducing energy use and energy costs for the IT and telecommunications industries, this funding will help create jobs and ensure the sector remains competitive," said Secretary Chu. "The expected growth of these industries means that new technologies adopted today will yield benefits for many years to come."

For more, see <http://www.energy.gov/news2009/8491.htm>.



State News

California. Governor Schwarzenegger Announces 244 Proposed Renewable Energy Projects

State-Federal Partnership Expediting Hundreds of Projects Proposed to meet Governor's 2020 Renewable Energy Goal

Press Release, December 29 — Governor Arnold Schwarzenegger today announced the first comprehensive list of 244 proposed renewable energy projects that could produce up to almost 70,000 megawatts (MW) of clean energy annually, building on California's aggressive renewable energy goals. These proposed projects

throughout the state include solar, wind, geothermal, biomass and small hydro facilities and will help move California towards achieving the Governor's renewable energy goal of 33 percent by 2020. Currently California facilities produce just over 8,000 MW of renewable energy annually.

"California is a pioneer in renewable energy, green jobs and environmental protection. Today's announcement is proof we have a bright renewable energy future that will both fight climate change and drive our green economy," said Governor Schwarzenegger. "This list of nearly 250 projects is great news for our state because not only will these projects help us meet our long-term environmental goals they will also create green jobs and new, clean investment in our economy now. My Administration will continue to work with our federal partners to expedite renewable energy projects to help meet our aggressive renewable energy goals while ensuring they comply with all state and federal environmental regulations."

For more, see <http://gov.ca.gov/press-release/14092>.

California. Project to Revive Two Wells at The Geysers

An article on pressdemocrat.com outlines a project at The Geysers to revive two defunct steam-generating wells. The project is supported by the Department of Energy, which will put \$5.7 million toward the \$12 million cost. Water will be injected into one of the two reopened wells, while the second well will be used to closely monitor and record the effects of the water infusion. "The overarching intent here is to give us the best approach for expanding into the northwest corner of The Geysers," said Mike Rogers, vice president of operations for Calpine's project.

See <http://www.pressdemocrat.com/article/20091225/ARTICLES/912259991/1350?Title=Project-aims-to-bring-new-life-to-wells-at-The-Geysers>.

Mississippi and Texas. Free Green Energy Names Sologen Systems Project Manager

Press Release, December 31, San Antonio, Dec. 31 -- Free Green Energy, LLC announced today, the engagement of San Antonio based Sologen Systems, Inc. as Project Manager for a major enhanced geopressure electrical generating project. The first stage of the project calls for developing a total of 200 geopressured wells in the States of Mississippi and Texas. The project is expected to ultimately generate baseload electrical power of at least 400 megawatts. Total capital cost is estimated to be \$280 million.

Free Green Energy's partner in the venture is Green Well Power, LLC of Vancouver, BC. Green Well Power is the exclusive North American licensee for the revolutionary linear power engine which will be used to harvest the wells' kinetic energy and drive the electrical generators. The linear driver was developed and patented by Linear Power, Ltd of Long Beach, Mississippi.

For more, see <http://www.prnewswire.com/news-releases/free-green-energy-names-sologen-systems-project-manager-80420582.html>.



International News

Chile: Senate Votes Special Protection for Tatio Geysers

The Senate has declared the Tatio Geysers in northern Chile a “National Monument and Nature Sanctuary,” restricting energy and mining development projects in the area. This came after criticism of development in the area that locals feared would reduce the activity of the geysers and decrease tourism in the area. Sara Larrain, leader of NGO Chile Sustentable told press: “This decision will help the local Atacameño indigenous groups develop an economy that is not dependent on the ravages of the mining industry,” said Larrain.

See http://www.santiagotimes.cl/index.php?option=com_content&view=article&id=17923:senate-votes-special-protection-for-tatio-geysers-in-northern-chile&catid=55:congress&Itemid=141.

Germany: Nation's Largest Geothermal Power Plant to be Developed in Geretsried

Press Release, December 16 — As of 15 December 2009 Hörmann Energie und Umwelt GmbH, a subsidiary of Hörmann Group has taken over 90% of the shares in Enex Power Germany GmbH, a geothermal project developer. 10% of the shares in Enex Power Germany are still held by Geysir Europe GmbH, a subsidiary of the German company Daldrup & Söhne AG and the Icelandic company Geysir Green Energy ehf. The parties have agreed to keep the purchase price confidential.

Within the next two years the companies Hörmann Energie und Umwelt and Geysir Europe are going to invest more than €70 million in this geothermal project. The site, near the city Geretsried, is located on the geothermal claim “Wolfratshausen”. During the last years the claim has been developed by Enex Power Germany, a former 100% subsidiary of Geysir Europe. More than €8 million have been invested in the project so far, amongst others for the construction of the drill pad at the “Hofgut Breitenbach” near Gelting. Drilling will start in June 2010. Target of the drilling operations is the well-known Malm limestone, geologically considered a very promising reservoir for thermal water. The current plan is to drill 3 wells, each more than 5000 m deep. Over 170 liter per second of thermal water, with a temperature exceeding 127 °C will be pumped out of the depth. Thereby thermal energy equal to 50 MW can be reached. Approximately 5 MW of power will be produced in a binary power plant (Kalina or ORC). The produced electricity will be fed to the grid. The remaining energy is going to be used for district heating.

For more, see <http://www.geysirgreenenergy.com/news/nr/146>.

Indonesia: West Java Offers \$1.4 bln Geothermal Projects

The West Java province will offer three geothermal projects, according to Reuters. They are Gede Pangrango with a potential capacity of 210 MW, Sangkan Hurip with 100 MW, and Papandayan with 160 MW. A director at the planning ministry in charge of mineral and natural resources, Monty Girianna, said investors were likely to be interested in the projects as long as locations were free of land disputes and once it was clear how much

state power firm PT Perusahaan Listrik Negara (PLN) would pay for the electricity. The three projects will require a total of \$1.4 billion investment from public and private partners.

See <http://in.reuters.com/article/oilRpt/idINJAK7844520091223>.

Kenya. EDC Invited to Bid on Geothermal Contract

Energy Development Corp. (EDC) may bid for a geothermal drilling contract in Kenya. "There's nothing definite yet, but we have been invited to bid in Kenya," Richard Tantoco, EDC president and chief executive, told reporters. "One of our goals is to advance the technical side of our drilling services by expanding our international operation to eventually generate more income from it," He added, "It's too early to give specific details for our overseas expansion." The one-year contract covers the drilling of seven geothermal wells, three dewatering wells and one work-over well.

See <http://businessmirror.com.ph/home/companies/20537-edc-to-bid-for-kenya-geothermal-project-.html>.

Philippines. Biliran Island Development Updated

Geysir Green Energy began surface exploration on the Biliran Island in 2008 and is assessing geological, geophysical and geochemical aspects of the island and its resources, according to azocleantech.com. According to the update, construction is estimated to begin in 2010 on a beginning phase of 50 MW. Power from the project will be supplied to the Visayas grid, one of three grids in the country. The Biliran Power Corporation, owned by Geysir Green Energy's subsidiary Envent, manages the project.

See <http://www.azocleantech.com/Details.asp?newsID=7797>.

Serbia. First Exploration Permit Granted for Geothermal

Press Release, January 5, Vancouver BC -- Reservoir Capital Corp. ("Reservoir" or the "Company") (TSX-V:REO - News)(Frankfurt.ROC - News)(Berlin.ROC - News) is pleased to report that its wholly-owned subsidiary, Southern European Exploration d.o.o. ("SEE") has been granted an exploration permit for geothermal energy at Vranjska Banja in southern Serbia; the first of its kind to be issued to a private company in the country. SEE has also filed applications for an additional three energy permits in the Vojvodina Province of northern Serbia.

The Vranjska Banja exploration permit covers 17.5 km² in area, which has an elevated geothermal gradient attributed to the presence of Tertiary-age intrusives. The Company's permit surrounds an existing 200 m² exploitation permit, where two existing geothermal wells (VG-2 and VG-3) have confirmed a high temperature gradient. Well VG-2 intercepted several hot water aquifers, the best of which measured 126 degrees centigrade between 864-890 m depth. Well VG-3 intercepted a zone containing three intervals with measured temperatures of 124 degrees centigrade, between 1,500 and 1,575 m depth.

For more, see http://pr-canada.net/index.php?option=com_content&task=view&id=155561&Itemid=65.

Philippines. Korean Agency Seeks Govt Approval for Geothermal Feasibility Studies

The Korea International Cooperation Agency (Koica) submitted a proposal in early December to the Philippines Department of Energy to conduct feasibility studies on several geothermal sites, according to businessmirror.com.ph. Koica is looking at areas in Mindoro, Bohol, and Bukidnon, which are projected to have geothermal resources.

See <http://businessmirror.com.ph/home/economy/20218-koica-seeks-govt-approval-to-study-geothermal-areas-in-rp.html>.

UK. DECC Provides Funding for Cornwall Geothermal Project

Geothermal Engineering Ltd has secured £1.5 million from the Department of Energy and Climate Change for the UK's first commercial hot rocks power plant, according to businesscornwall.co.uk. The 10-MW plant will be located in Cornwall and will cost around £40 million. Geothermal's MD Ryan Law told press. "We are delighted to receive this initial funding which, subject to planning, we will use to start the drilling process in 2010. DECC's investment is certainly a step in the right direction but the UK must be more ambitious in funding renewable energy projects."

See <http://www.businesscornwall.co.uk/news-categories/press-releases/geothermal-funding-123>.



<http://www.geo-energy.org/updates.aspx>



Notices

Notices

Colorado ARRA Grant Schedule Posted, Governor's Energy Office

The Governor's Energy Office (GEO) has posted a schedule of anticipated American Reinvestment and Recovery (ARRA) grants to begin in January of 2010. The GEO plans to hold a webinar for each grant solicitation approximately one week after the official posting date. Note: the timeline is subject to change; grants may be pushed back to later dates, but will not open earlier. The schedule is available at

<http://www.colorado.gov/energy/index.php?/resources/category/funding-opportunities/>.

EPA's RE-Powering America's Lands Web Site Updated

U.S. Environmental Protection Agency

The U.S. Environmental Protection Agency's (EPA) RE-Powering America's Land: Siting Renewable Energy on Potentially Contaminated Land and Mine Sites initiative Web site has been updated.

Highlights include:

- The Google Earth interactive mapping tool, national and state maps and public spreadsheet have been updated to incorporate the following new information.

New sites – all EPA tracked sites in Puerto Rico and landfill sites tracked by EPA’s Landfill Methane Outreach Program (LMOP) New renewable energy technologies analyzed – sites with potential for geothermal (flash and binary power plants and geothermal heat pump); landfill gas energy projects; and photovoltaic (PV) policy driven, which includes sites that have solar potential due to solar-specific state policies in place

- The Google Earth interactive mapping tool and public spreadsheet now include basic information on whether a state has a renewable portfolio standard (RPS), RPS goal, solar set-aside, solar multiplier, or distributed generation provision.
- New renewable energy on contaminated land success stories have been added.

Download the new Renewable Energy Interactive Map at

http://www.epa.gov/renewableenergyland/mapping_tool.htm.

BLM’s Colorado State Office Posts List of Proposed Parcels for Upcoming Oil and Gas Lease Sale; Geothermal Offered for First Time (February 11)

Press Release, December 11, Denver--The Bureau of Land Management Colorado State Office posted its list of parcels for the quarterly competitive oil and gas lease sale scheduled 9 a.m., Feb. 11, 2010, at the State Office. The 11 oil and gas parcels in the sale include 3,511 total acres and are located within BLM Colorado’s Royal Gorge (Cañon City) Field Office.

For the first time in Colorado, the sale will also include geothermal leasing. One parcel of 799 acres with subsurface Federal mineral rights will be offered for geothermal development in Chaffee County, near the Mt. Princeton Hot Springs Resort west of Buena Vista. This single parcel was deferred from the November 2009 sale to allow time for the Colorado Department of Natural Resources to confer with BLM Colorado on topics relating to geothermal development.

Protests of parcels being offered for lease must be in writing and delivered by 4 p.m., Wednesday, Jan.27, 2009, by hand, postal delivery, or fax, (303) 239-3799, to the BLM Colorado State Office, 2850 Youngfield St., Lakewood, Colo. 80215.

The BLM manages 253 million acres – more land than any other Federal agency. This land, known as the National System of Public Lands, is primarily located in 12 Western states, including Alaska. The Bureau, with a budget of about \$1 billion, also administers 700 million acres of sub-surface mineral estates throughout the nation. The BLM’s multiple-use mission is to sustain the health and productivity of the public lands for the use and enjoyment of present and future generations. The Bureau accomplishes this by managing such activities as

outdoor recreation, livestock grazing, mineral development, and energy production, and by conserving natural, historical, cultural, and other resources on public lands.

Lease sale information can be obtained online at

http://www.blm.gov/co/st/en/BLM_Programs/oilandgas/leasing.html, at each of the Bureau's field offices, and the BLM Colorado State Office Public Room, 2850 Youngfield St., Lakewood, Colo

DOE Issues Final Renewable Energy Loan Guarantee Rules

Federal Register — Office of the Chief Financial Officer, Department of Energy

On August 7, 2009, the Department of Energy (DOE or the Department) published a Notice of Proposed Rulemaking and Opportunity for Comment (NOPR) to make certain changes to the existing regulations for the loan guarantee program authorized by Section 1703 of Title XVII of the Energy Policy Act of 2005 (Title XVII or the Act). Section 1703 of Title XVII authorizes the Secretary of Energy (Secretary) to make loan guarantees for projects that “avoid, reduce, or sequester air pollutants or anthropogenic emissions of greenhouse gases; and employ new or significantly improved technologies as compared to commercial technologies in service in the United States at the time the guarantee is issued.” Section 1703 of Title XVII also identifies ten categories of technologies and projects that are potentially eligible for loan guarantees. The two principal goals of section 1703 of Title XVII are to encourage commercial use in the United States of new or significantly improved energy-related technologies and to achieve substantial environmental benefits. DOE believes that commercial use of these technologies will help sustain and promote economic growth, produce a more stable and secure energy supply and economy for the United States, and improve the environment.

Through experience gained implementing the loan guarantee program authorized by section 1703 of Title XVII, and information received from industry indicating the wide variety of ownership and financing structures which participants would like to employ in implementing projects seeking loan guarantees, DOE believes it is appropriate to make certain changes to the existing regulations to provide flexibility in the determination of an appropriate collateral package to secure guaranteed loan obligations, facilitate collateral sharing and related intercreditor arrangements with other project lenders, and to provide a more workable interpretation of certain statutory provisions regarding DOE's treatment of collateral, consistent with the intent and purposes of Title XVII. Having considered all of the comments submitted to DOE in response to the NOPR, the Department today is issuing this final rule.

DATES: This rule is effective December 4, 2009.

FOR FURTHER INFORMATION CONTACT: David G. Frantz, Director, Loan Guarantee Program Office, 1000 Independence Avenue, SW., Washington, DC 20585-0121, e-mail: lgprogram@hq.doe.gov; or Susan S. Richardson, Chief Counsel for the Loan Guarantee Program, Office of the General Counsel, 1000 Independence Avenue, SW., Washington, DC 20585-0121, e-mail: lgprogram@hq.doe.gov.

2009 Excellence in Renewable Energy Awards, Renewable Energy World (February)

Presented by the editors of RenewableEnergyWorld.com and Renewable Energy World North America magazine, these awards recognize the most outstanding projects, programs and technologies in the wind, solar, biomass, geothermal and hydroelectric energy sectors. Awards will be presented during Renewable Energy World North America Conference & Expo in Austin, Texas, February 23-25, 2010. Submit your nominations today! See <http://www.renewableenergyworld.com/partner/rew/online/2009-11-17/>.



Employment

Employment Opportunities

Exploration Geologist, Western U.S.

The Exploration Geologist is responsible for overseeing the planning and execution of geothermal projects including compilation and evaluation of existing data, new file data acquisition and mapping, integration of disparate data sets, and development of geological occurrence models for geothermal resources. The exploration focus is the Western U.S., principally California, Nevada, Oregon, and Utah. This role could grow into Exploration Manager for a major geothermal development company.

Essential Functions: Candidate must have a demonstrated capability to work with a team of geoscientists to achieve corporate goals. The ability to communicate in writing and through speaking is essential. Candidate must be able to identify potential resources in known geothermal districts and to identify possible new occurrences in novel settings.

Education, Experience, and Skills Required:

- Bachelor's in Geology from an accredited university is a minimum requirement.
- 10-15 years experience in geothermal exploration, drilling and logging of exploration holes, and conduct of field surveys.
- The successful candidate may be required to spend up to 50% of their time in the field and must be able to withstand the rigors of extreme heat, cold, and wind for short periods of time.
- Travel within the U.S. will be required.

This is a fulltime position that will be located in Reno, NV. A benefit package is available and includes medical, dental, vision, 401(k), and long-term disability. Salary is negotiable, but dependent on experience and qualifications.

For consideration please email or fax resumes to: kborgna@magmaenergycorp.com, 775.787.7069 (fax)

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 Integracion Economica, 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



Requests for Proposals

Closing This Week

Energy Efficiency Block Grants – Recovery Act, CEC (January 12)

The California Energy Commission requests proposals for Energy Efficiency Conservation Block Grants. This program will provide support for energy efficiency projects in small CA cities and counties. \$35.5 million expected to be available. Responses due 1/12/10. For more info, go to:

<http://www.energy.ca.gov/contracts/recovery.html#eecbg>. Refer to PON# 09-001.

Added This Week

Seeking Investor, Geothermal Project, Oregon

“Oregon investment group performing feasibility work at SE Oregon location is seeking one additional early round investor, knowledgeable in geothermal energy exploration preferred, but not required. Project has secure land block, initial financing, and access to extensive historical database of target site. If interested, contact Peter Hall at Pueblo Valley Geothermal (pbh@bendbroadband.com) for additional details”.

Climate Adaptation and Disaster Resilience – Indonesia (January 25 and July 26)

The U.S. Agency for International Development, Mission in Indonesia, requests proposals for Climate Adaptation and Disaster Resilience (CADRE). Indonesia is particularly vulnerable to climate change and disasters. CADRE supports projects that address climate change and disasters by efficiently, effectively and sustainably addressing the needs for disaster risk reduction and climate change adaptation together, among vulnerable populations in Indonesia. Multiple awards ranging from \$500K to \$1.5 million anticipated. Concept Papers are due 1/25/10 and 7/26/10. For more info, contact Johanna Gardjito at aps10-005@usaid.gov or go to:

<http://www.grants.gov/search/search.do?mode=VIEW&oppId=50515>. Refer to Sol# APS10-005. (Grants.gov 12/7/09)

Electric Efficiency Research – California (February 9)

The California Energy Commission requests proposals for Energy Innovations Small Grant Program (EISG) – Electricity Program, to conduct research that establishes the feasibility of new, innovative energy concepts. Project must address one of the following research areas: Industrial/Agriculture/Water end-use efficiency; building end-use efficiency; environmentally preferred advanced generation; renewable generation; energy-related environmental research; and energy systems integration. EISG provides \$95K for hardware projects and \$50K for modeling projects. Pre-proposal abstracts are optional and are due 1/8/10, final proposals due 2/9/10. For more info, go to: http://www.energy.ca.gov/contracts/smallgrant/09-03_electricity/index.html. Refer to Sol# 09-03.

International Development Grants (February 12)

The U.S. Agency for International Development requests proposals for the Development Grants Program, which supports development activities in the following areas: Climate change adaptation, microenterprise, water and sanitation, and dairy. DGP recipients will be responsible for ensuring achievement of the program objectives in specified countries. Applications should consider Agency priorities in Food Security, Global Climate Change, and Global Engagement with new partners. \$40 million expected to be available, individual awards NTE \$2 million. Responses due 2/12/10. For more info, contact Roderick Watson at rwatson@usaid.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=50806>. Refer to Sol# M-OAA-GRO-EGAS-DGP-10-001. (Grants.gov 12/22/09)

Environmental Video Contest (February 16)

The U.S. Environmental Protection Agency is sponsoring a video contest titled "Our Planet, Our Stuff, Our Choice," that challenges filmmakers to produce short, creative videos that highlight the "Three Rs" of individual consumption: Reduce, Reuse, and Recycle. Entries should be 30 to 60 seconds in length. Award range \$500 to \$2.5K. Videos accepted through 2/16/10. For more info, go to: <http://www.epa.gov/osw/wycd/video.htm>.

U.S. DOE Office of Science (September 30)

The U.S. Department of Energy, Office of Science, announces its continuing interest in receiving grant proposals in areas including, but not limited to: Basic Energy Sciences, Biological and Environmental Research, and Advanced Scientific Computing. Proposals accepted through 9/30/10. For more info, including program-specific contacts, go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000179&agency=DOE>. Refer to Sol# DE-FOA-0000179. (Grants.gov 12/4/09)

RFP Announcements**Geothermal Energy Development, Department of the Navy**

Department of the Navy Naval Air Systems Command Naval Air Warfare Center Weapons Division Dept. 3a Recovery Act - The purpose of this Broad Agency Announcement (BAA) is to solicit proposals for investigations

of geological properties associated with active geothermal systems within select regions of Naval Air Station (NAS) Fallon, NV; Naval Air Facility (NAF) El Centro, CA; Chocolate Mountains Gunnery Range (Chocolate Mountains), CA; and Hill Air Force Base (AFB), UT. The object is to perform geological investigations that could potentially lead to the discovery of a geothermal resource. This notice constitutes a BAA as contemplated in FAR 6.102(d)(2). A formal Request for Proposal (RFP)/Solicitation will not be issued. The Naval Air Weapons Division (NAWCWD) will not issue paper copies of this BAA. NAWCWD reserves the right to select for award, all, some, or none of the Proposals in response to this BAA. NAWCWD reserves the right to fund all, some, or none of the Proposals received under this BAA. NAWCWD provides no funding for direct reimbursement of proposal development costs. Technical and Cost Proposal (or any other material) submitted in response to this BAA will not be returned. It is the policy of NAWCWD to treat all Proposals as competition sensitive Bid and Proposal Information and to disclose their contents only for the purpose of evaluation. Awards will be to United States (U.S) companies only. All contracts resulting from this announcement are subject to the federal Acquisition Regulation and the Department of Defense Federal Acquisition Regulation Supplement. SEE ENCLOSED ATTACHMENT FOR SPECIFIC INFORMATION AND FORMATTING THAT MUST BE FOLLOWED WHEN PREPARING PROPOSALS FOR THIS CONTRACTING EFFORT. This enclosure calls out another document "Genetic Occurrence Models for Geothermal Prospecting, N68936-04-C-0057", which is attachment 2 to this notice. Place of Performance (if applicable): Naval Air Station (NAS) Fallon, NV; Naval Air Facility (NAF) El Centro, CA; Chocolate Mountains Gunnery Range (Chocolate Mountains), CA; and Hill Air Force Base (AFB), UT.

See <http://www.tradingmarkets.com/.site/news/Stock%20News/2650824/>.

Environmental Justice Small Grants Program, EPA (January 8)

The U.S. Environmental Protection Agency requests proposals for the Environmental Justice Small Grants Program. This program supports projects that addresses a local environmental and public health issue within an affected community. There is a well-established scientific consensus that climate change will cause disproportionate impacts upon vulnerable populations. Therefore, this year the program will emphasize the disproportionate impacts of climate change in communities with environmental justice concerns. Areas of interest include, but are not limited to: Energy efficiency, renewables, water efficiency, Green jobs and green economy capacity building, and smart growth. \$1 million expected to be available, up to 40 awards anticipated. Responses due 1/8/10. For more info, including Regional contacts, go to:

<http://www.epa.gov/compliance/environmentaljustice/grants/ej-smgrants.html>. Refer to Sol# EPA-OECA-OEJ-10-01. (Grants.gov 10/28/09)

Request for Bids. Pilgrim Hot Springs Property Sale Extended (February)

The December 10, 2009 deadline for bids on Pilgrim Hot Springs near Nome, Alaska has been extended. The Catholic Bishop of Northern Alaska, owner of the property, is selling the Pilgrim Hot Springs property and is requesting bids to be submitted toward the end of February.

If you would like to be notified when the bid package is available, please send a reply by email to Tom Buzek (tom@cbna.org) or George Bowder (finance@cbna.org). Thank you for your interest in the Pilgrim Hot Springs property

Environmental Management Fellowship Program, EPA (February 5, 2010)

The U.S. Environmental Protection Agency requests proposals for the National Network for Environmental Management Studies Fellowship Program. This program provides students an opportunity to participate in a fellowship project that is directly related to their field of study. Fellowship categories include: Environmental Policy, Regulation, and Law; Environmental Management and Administration; Environmental Science; and Public Relations and Communications. \$400K expected to be available, up to 40 awards anticipated. Responses due 2/5/10. For more info, go to: <http://www.epa.gov/education/students.html>. Refer to Sol# EPA-EED-10-01. (Grants.gov 11/5/09)

Power, Controls and Adaptive Networks, National Science Foundation (February 7, 2010)

The National Science Foundation requests proposals for Power, Controls and Adaptive Networks. This program supports distributed control of multi-agent systems with embedded computation for sensor and adaptive networks. This program emphasizes electric power networks and grids, including generation, transmission and integration of renewable, sustainable and distributed energy systems, such as fuel cells and micro-turbines in large power networks; high power electronics and drives; and understanding of associated regulatory and economic structures. The program also emphasizes energy scavenging and alternative energy technologies, including solar cells, ocean waves, wind, geothermal, low-head hydro, and the hydrogen economy. In addition, the program supports generation and integration in the National Grid (InterGrid), and interdependencies of critical infrastructure in power and communications. Responses due 2/7/10. For more info, contact Radhakishan Baheti at rbaheti@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13380. Refer to Sol# PD-10-1518. (Grants.gov 11/16/09)

Clean Energy Deployment, Recovery Act, New York (February 16, 2010)

The New York State Energy Research and Development Authority seeks proposals for Project Implementation Funding for State Energy Program American Recovery and Reinvestment Act. This RFP will support the implementation of energy conservation measures including energy efficiency, renewable energy, and clean fleet projects. \$74 million expected to be available. Responses due 10/26/09, 12/21/09, and 2/16/10. For more info, contact Ben Fox at bf2@nyserda.org or go to: <http://www.nyserda.org/funding/1613rfp.asp>. Refer to RFP# 1613.

Thermal Transport, National Science Foundation (March 3, 2010)

The National Science Foundation requests proposals for Thermal Transport Processes. This program supports engineering research aimed at gaining a basic understanding of the microscopic and macroscopic levels of thermal transport phenomena (heat and mass transfer) in energy conversion and conservation, the synthesis and processing of materials, cooling and heating of infrastructure and equipment, the interaction of industrial

processes with the environment, the propulsion of air and land-based vehicles, and thermal phenomena in biological and environmental systems. Responses due 3/3/10. 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-10-1406. (Grants.gov 11/16/09)

Energy for Sustainability, National Science Foundation (March 3, 2010)

The National Science Foundation requests proposals for Energy for Sustainability. This program supports fundamental research and education in energy production, conversion, and storage and is focused on energy sources that are environmentally friendly and renewable. Sources of sustainable energy include: Sunlight, Wind/Wave, Biomass, and Geothermal. Responses due 3/3/10. For more info, contact Gregory Rorrer at grorrer@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026. Refer to Sol# PD-10-7644. (Grants.gov 11/16/09)

Environmental Engineering, National Science Foundation (March 3, 2010)

The National Science Foundation requests proposals for Environmental Engineering. The goal of this program is to encourage transformative research which applies scientific principles to minimize solid, liquid, and gaseous discharges into land, inland and coastal waters, and air that result from human activity, and to evaluate adverse impacts of these discharges on human health and environmental quality. Responses due 3/3/10. For more info, contact Paul Bishop at pbishop@nsf.gov or go to:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501029. Refer to Sol# PD-10-1440. (Grants.gov 11/16/09)

Environmental Sustainability, National Science Foundation (March 3, 2010)

The National Science Foundation requests proposals for Environmental Sustainability. This program supports engineering research with the goal of promoting sustainable engineered systems that support human well-being and that are also compatible with sustaining natural systems. Research in Environmental Sustainability typically considers long time horizons and may incorporate contributions from the social sciences and ethics. Responses due 3/3/10. For more info, contact Bruce Hamilton at bhamilto@nsf.gov or go to:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027. Refer to Sol# PD 10-7643. (Grants.gov 11/16/09)

Environmental Implications of Emerging Technologies, National Science Foundation (March 3, 2010)

The National Science Foundation requests proposals for Environmental Implications of Emerging Technologies. This program provides support to develop and test the environmental effects of new technologies. The program also supports research on the development and refinement of sensors and sensor network technologies. Responses due 3/3/10. For more info, contact Cynthia Ekstein at acekstein@nsf.gov or go to:

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030. Refer to Sol# PD-10-1179. (Grants.gov 11/16/09)

Technology Solutions, 2010 Tech Awards Nominations (March 31, 2010)

Nominations are invited for the 2010 Tech Awards. This program awards individuals, organizations, and companies from around the world that are utilizing innovative technology solutions to address issues pertaining to health, education, the environment, economic development, and equality. Individual awards \$50K each. Responses due 3/31/10. For more info, go to: <http://techawards.thetech.org/>. (Foundation Center RFP Bulletin 11/6/09)

Emerging Frontiers in Research and Innovation (March 31, 2010)

The National Science Foundation requests proposals for Emerging Frontiers in Research and Innovation. Through this new funding opportunity, the NSF seeks proposals from interdisciplinary teams of researchers, with transformative ideas that represent an opportunity for a significant shift in fundamental engineering knowledge with a strong potential for long term impact on national needs or a grand challenge. Areas of interest include: 1) Renewable Energy Storage, and 2) Science in Energy and Environmental Design (SEED): Engineering Sustainable Buildings. This solicitation is in coordination with the U.S. Department of Energy and the U.S. Environmental Protection Agency. \$29 million expected to be available, up to 14 awards anticipated. Letters of Intent due 10/9/09, preliminary proposals due 11/13/09, final proposals due 3/31/10. For more info, go to: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09606. Refer to Sol# 09-606. (Grants.gov 8/13/09)

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?opId=46833&flag2006=false&mode=VIEW>. Refer to Sol# DE-FOA-0000058. (Grants.gov 4/16/09)



Events

Happening This Week

GEA Geothermal Energy Finance Forum, January 14, 2010 (New York, NY)

Ritz-Carlton Battery Park

The Geothermal Energy Association (GEA), with Gold Level Sponsors, Islandsbanki and Vulcan Power, will be holding a one-day Geothermal Energy Finance Forum on Thursday, January 14, 2010 at the Ritz-Carlton, Battery Park in New York City. This program will bring the finance and investment community of New York City together and provide a tutorial on geothermal energy investment with top experts and major players in geothermal development and finance. The day's agenda includes presentations and panel discussion on; project development and design, risk mitigation, costs and financial modeling, government finance and incentives, and case studies from developers and financiers with recent success stories. For information contact Kathy Kent at Kathy@geo-energy.org.

GEA Events

Renewable Energy World North America 2010, February 23-25, 2010 (Austin, TX)

<http://www.renewableenergyworld-events.com>

Austin Convention Center

CGEC California Geothermal Energy Summit, May 12, 2010 (David, CA)

<http://cgec.ucdavis.edu/>

UC Davis Campus

GEA Geothermal Symposium, May 21, 2010 (Washington, DC)

GEA Geothermal Energy Workshop, July 22, 2010 (Las Vegas, NV)

GEA Geothermal Expo and Conference, TBA

GEA's annual Geothermal Energy Expo, date and location to be announced

Why Should You Attend GEA Events?

As the national trade association for the geothermal industry, the Geothermal Energy Association (GEA) strives to create and deliver educational events involving the full range of the geothermal industry, reflecting the dynamic growth of the geothermal market, and communicating the benefits of geothermal energy to all. GEA

events offer important opportunities to learn and network within the geothermal community, and to inform and educate companies and organizations outside today's industry that are interested in learning more about geothermal energy. The revenue generated from GEA events is used to advance the goal of the GEA, "to expand the production and use of geothermal energy in the United States and around the world." The revenue supports GEA's workshops and events, communications activities, outreach efforts, policy related activities and analysis, internet publications, and other initiatives designed to help achieve this goal. ONLY GEA puts your dollars to work in all of these ways to advance the future of the geothermal energy industry. And, GEA does not sell your email or postal address to junk mailers or spammers.

To keep track of new events and changes to this calendar go to: www.geo-energy.org

Geothermal Energy Weekly

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

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