



Geothermal Energy Weekly

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

National News



DOE Offers First Geothermal Loan Guarantees to Projects in Nevada and Oregon

A federal funding initiative in place since last year is now coming full circle, as the first geothermal project applications have received offers for loan guarantees from the U.S. Department of Energy. DOE is authorized to provide loan guarantees for qualified projects through a program established under Title XVII of the Energy Policy Act of 2005. In 2009 the program opened up to innovative geothermal technologies, and Congress created a new DOE loan guarantee program for renewable projects using commercial technology.

DOE has announced loan guarantees for geothermal power projects in Nevada and Oregon. Announced June 10, US Geothermal, Inc. is offered a \$102.2 million conditional commitment for a 22-MW power plant in Oregon. The project will use U.S. Geothermal's supercritical binary geothermal cycle, designed for increased efficiency and electricity output. It is expected to create 150 jobs during the 20-month construction period and 10 full-time positions when operations commence, anticipated in 2012. Electricity will be sold to Idaho Power Company.

This could be the first commercial geothermal power plant for Oregon. "We welcome US Geothermal, Inc. to Malheur County as a part of eastern Oregon's growing renewable energy economy," said Oregon Governor Ted Kulongoski.

US Geothermal President and CEO Dan Kunz told GEA the application process took about 20 months. "The DOE loan process started in October 2008 for US Geothermal when the decision was made to make an application to the program," Kunz said. "We completed the application and filed in February 2009. After that we worked with the DOE during its review and due diligence of our project. The process included programmatic responses by the DOE to help develop a uniform loan program applicable to all projects in the queue. Ours was the first geothermal project to be offered a 1703 loan guarantee."

"We now believe that the loan guarantee program process can move along with more speed given some of this early programmatic work already completed," Kunz said.



*Flow test at the Neal Hot Springs site in Oregon. This US Geothermal project received the first loan guarantee for geothermal technologies under the DOE program.
Photo: US Geothermal*

Remarking on the project's development, Kunz added, "The equipment provider is TAS Energy Inc. of Houston Texas. They have worked closely with our internal engineers to develop a power plant system that fits closely the physical conditions at Neal Hot Springs. The plant will be air cooled and those condensers have been carefully considered. In addition there is a significant amount of modularity associated with the plant to minimize the infield construction risk and time. The plant is also using as a working fluid a non flammable liquid which helps reduce operating risks. The plant will operate at higher pressures than most binary cycle plants so that the fluid will be in a supercritical environment that allows for a more efficient transfer of heat to the fluid and results in a more efficient power cycle."

Announced on June 15, Nevada Geothermal Power Company is offered a \$98.5 million conditional commitment. DOE guarantees up to 80% while John Hancock Financial Services is the lead lender and applicant. This is the first project to access a DOE loan guarantee through the Financial Institution Partnership Program (FIPP), wherein long-term lenders apply on behalf of developers and have holdings of at least 20% in the project. The loan guarantee will fund NGP's 49.5-MW Faulkner 1 project at its Blue Mountain site.

"Our support of the Blue Mountain project demonstrates our continued commitment to realize the potential in geothermal so that we can achieve our nation's clean energy goals," Energy Secretary Steven Chu said in a statement.

For instructions to apply, to get tips on strong applications and for more information on DOE's loan guarantee program, visit <http://www.lgprogram.energy.gov/>. See <http://www.energy.gov/news/9072.htm> and <http://www.energy.gov/news/9063.htm>.

Obama Calls for National Mission on Energy Policy; Senators to Meet with President

President Obama in his first Oval Office speech Tuesday called for a "national mission" to focus on energy policy in light of the BP oil spill Gulf Coast disaster. "We will fight this spill with everything we've got for as long as it takes," he said. "We will make BP pay for the damage their company has caused. And we will do whatever is necessary to help the Gulf Coast and its people recover from this tragedy."

Pushing for energy legislation, Obama addressed a combination of proposals, including a renewable electricity standard and increasing energy efficiency, but did not specifically speak to a cap on greenhouse gas emissions.

Supporters welcomed the call to action. Senate Majority Leader Harry Reid (D-NV) said, "I am committed to working with the Obama Administration to make sure that the victims of this disaster are compensated fairly and that BP is held fully accountable for its negligence."

On June 17, Senate Democrats met in a special caucus to hear from senators that have drafted energy legislation. Sens. John Kerry (D-MA) and Joe Lieberman (I-CT) presented their American Power Act (APA) that would establish a cap and trade program. Sen. Jeff Bingaman's (D-NM) spoke on the American Clean Energy and Leadership Act (ACELA) which creates a national renewable electricity standard without a cap on carbon emissions. Sen. Maria Cantwell (D-WA) and Sen. Susan Collins (R-ME) introduced the Carbon Limits and Energy for America's Renewal Act (CLEAR), a "cap and dividend" bill.

Key senators will meet June 23 with President Obama at the White House. Once the Senate returns from their July 4 break their goal is to bring a bill to the Senate floor within a few weeks.

"I firmly believe that a diverse energy strategy will help our nation reduce pollution, create millions of clean energy jobs that can never be outsourced and lower our dependence on oil," Reid said. "President Obama presented a path to energy independence in his speech tonight that strengthens our economy and protects our environment. He made a compelling case that America cannot delay our pursuit of a national clean energy strategy that makes us more competitive globally. His vision for a clean energy future is already being realized in my home state of Nevada, and I am confident we can replicate that approach nationwide."

Senate Minority Leader Mitch McConnell (R-KY) spoke for Republicans who thought Obama was using the Gulf spill to further his political agenda. "To suggest in any way that this oil spill is a rationale for a national energy tax, which has nothing whatsoever to do with this horrendous environmental catastrophe, is something I don't think that many of my members are likely to buy," he said.

See <http://www.nytimes.com/2010/06/16/us/politics/16obama.html>, <http://www.politico.com/news/stories/0610/38681.html>, and <http://www.nytimes.com/cwire/2010/06/16/16climatewire-obama-to-consider-range-of-options-for-senat-93744.html>.

Clean Energy Associations Warn Senate: Jobs will be Lost to Other Countries

A coalition of nine clean energy organizations, including GEA, sent an open letter to members of the Senate on June 16 urging the quick consideration of a stable energy policy for the US. The coalition advised the Senate to move forward in light of the jobs that would be created as well as the possibilities for utilizing domestic resources. If not acted upon, the group warned, the US could be "passively losing these jobs to other countries."

Dear Senator Reid and Senator McConnell:

We urge that the Senate move quickly to consider legislation promoting energy efficiency, renewable energy generation, and biofuels, along with associated manufacturing opportunities. Such a policy would add millions of American jobs and utilize our own domestic, clean, inexhaustible, and rapidly deployable

resources. Acting now will stimulate construction and operations jobs as well as manufacturing and supply chains, rather than passively losing these jobs to other countries.

A series of inconsistent and unstable policies have cost America its leadership in renewable energy and energy efficiency manufacturing and production. Attracting manufacturing will take a concerted effort, as evidenced by the actions being taken by our competitors, but America's workforce, skills, and market are well suited for global leadership if stable policies are put in place. Important programs affecting renewable energy industries, energy efficiency initiatives and biofuels programs are all due to expire this year. Many of the jobs these industries support could be lost permanently to other countries. Many renewable manufacturers have almost ceased receiving orders because of the uncertainty of a long term policy.

Enacting policy now is urgent. Ensuring steady growth of the industries that will solve our climate, water, and waste challenges will be a critical way to address not only near term employment challenges but our long term environmental and energy security goals. Renewable energy, energy efficiency, and biofuels can make a significant down payment on carbon pollution targets. These sources are rapidly deployable today, immediately producing jobs, energy security, and environmental benefits.

The time has come for Congress to enact legislation providing long-term support for energy efficiency, renewable energy and biofuels. It is essential for American jobs, our national security, and the environment.

Sincerely,

Kateri Callahan, President Denise Bode, CEO
Alliance to Save Energy American Wind Energy Association
Bob Cleaves, President & CEO Lisa Jacobsen, President
Biomass Power Association Business Council for Sustainable Energy
Ted Michaels, President Karl Gawell, Executive Director
Energy Recovery Council Geothermal Energy Association
Tom Buis, CEO Linda Church Ciocci, Executive Director
Growth Energy National Hydropower Association
Rhone Resch, President & CEO
Solar Energy Industries Association

U.S. Senate to Vote (Again) on EPA Rules

From Sustainable Energy Coalition/SUN DAY Campaign: U.S. Senate Majority Leader Harry Reid (D-NV) is going to allow lawmakers to vote on a controversial bill that would suspend new greenhouse gas rules. Introduced in March by Sen. Jay Rockefeller (D-WV), the bill proposes to suspend a rule passed by the Environmental Protection Agency for two years. That new EPA rule allows the agency to regulate greenhouse gas emissions from stationary sources. Rockefeller's bill was sent to the Environment and Public Works Committee, but the committee hasn't approved the measure. Earlier this month, the Senate voted against a resolution proposed by Senator Murkowski (R-AK) which would have disapproved of the EPA's finding underlying its proposed greenhouse gas rulemaking.

See http://www.firstenergycastfinancial.com/e_news.php?cont=37968.

Senators Propose Extending Renewable-Energy Grant Program

From Sustainable Energy Coalition/SUN DAY Campaign: U.S. Senators Maria Cantwell (D-WA), Dianne Feinstein (D-CA), George LeMieux (R-FL), Debbie Stabenow (D-MI), Jeff Merkley (D-OR), and Ben Nelson (D-NE) have proposed extending the renewable tax-credit Treasury grant program another two years, through 2012, as part of a \$140 billion bill to extend federal unemployment aid and renew a host of expired tax breaks. The renewable energy proposal, in the form of an amendment to the "tax extender" bill, would create at least 65,000 jobs in the solar power industry and tens of thousands of jobs in other sectors. The renewable-energy grant program, created by the 2008 Recovery Act, has been widely credited with keeping the U.S. renewable-energy market solvent after the financial crisis wiped out most sources of project financing on which developers had depended. The amendment also would allow municipal utilities and other non-profit power producers that don't pay taxes to take advantage of the program for the first time.

See http://online.wsj.com/article/BT-CO-20100616-704625.html?mod=dist_smartbrief&mq=com-wsj.

EPA Analyzes Cost to Taxpayers for Kerry-Lieberman Bill

From EESI Climate Change News: On June 12, the Environmental Protection Agency (EPA) released its economic analysis of Sen. Kerry (D-MA) and Sen. Lieberman's (I-CT) American Power Act. The analysis found that Americans would pay 22 to 40 cents a day, or \$79 to \$146 per year, if the Senate were to pass the Kerry-Lieberman climate and energy bill. Costs for the American consumer would actually go down through 2020 and then begin to increase in the years after. While Kerry and Lieberman have hailed these numbers as proof that now is the time to pass this bill, others have said the figures are not different enough from the figures of an analysis done last year for the climate bill which narrowly passed in the House. "The moderate results won't do much to change the calculus in the Senate," said Divya Reddy, an analyst at the Eurasia Group. "Many lawmakers from coal and manufacturing states still have reservations." Some have said it will be up to President Obama to push the bill through, but others have said he should not capitalize on the Deepwater Horizon oil spill. See <http://www.google.com/hostednews/ap/article/ALeqM5jgtia8XJDhtzR-ed3ZzuVOLC4DvQD9GBVB4G0> and <http://www.businessweek.com/news/2010-06-15/u-s-carbon-limits-may-cost-households-146-a-year-update1-.html>.



Company News

Golder Associates: Seminar Promotes Harnessing of Deep Geothermal Energy

Press Release, June 14 — The exploitation of heat from deep geothermal sources (at depths of between 500 and 5,000 m below surface) has the potential to grow significantly in the immediate future, with increasing numbers of electricity generation and direct heating projects being planned worldwide as the potential to use deep geothermal energy to generate 'green' renewable power is recognised. Drilling down into rocks thousands of meters beneath our feet allows the energy contained in hot rocks to be harnessed. At lower temperatures the energy can be used to heat and cool communities and homes and where rocks are at high temperatures electricity can be generated and fed into the grid.

Golder Associates, an international firm of environmental engineering consultants, has long recognised the potential to generate large quantities of green electricity and heat from deep geothermal sources. Golder Associates was closely involved in geological testing during the previous geothermal drilling work in Cornwall, UK in the 1980s and has undertaken work on geothermal issues for the US Department of Energy, the International Finance Corporation and European and North American power companies.

However, while the environmental and economic benefits of geothermal energy are widely recognised, many technological barriers remain, related to drilling of boreholes, stimulation and testing of geothermal reservoirs and the proving of commercial geothermal resources. Golder Associates is focused on working with both clients and other stakeholders to overcome the challenges and turn promise into reality. To help promote deep geothermal energy projects across Europe and with a view particularly to the UK, Golder Associates held a seminar in London entitled 'Harnessing Deep Geothermal Energy' on Thursday 10 June 2010.

The seminar brought together key industry players in the field of geothermal development, drilling, project funding, insurance and academic expertise, and allowed attendees to share experience and to develop a better understanding of the key technical and economic issues affecting these projects. The attendees heard Golder Associates speakers from the UK, Germany and Sweden presenting on topics including harnessing deep geothermal energy, planning and permitting, drilling and testing for geothermal projects and optimizing energy conversion systems.

More than 40 people attended the seminar, with many from different industries, projects and organizations associated with potential geothermal energy projects and opportunities in the UK and Europe. Gareth Digges La Touche, a senior geologist with a focus on geothermal energy projects in Golder Associates' UK operation said "The seminar was an exciting step forward in bringing deep geothermal energy closer to being a significant part of the renewable energy portfolio in the UK and Europe and provided a fantastic opportunity to bring some of the key

players involved in this nascent industry together". Martin Preene, Golder Associates' European Geothermal Energy Manager believes "This is an exciting time to be involved in the development of the deep geothermal industry across Europe and particularly in the UK where there is a lot of interest."

See http://golder.com/location_map.php.

Magma Energy: Three Nevada Projects Updated

Press Release, June 14 — Magma Energy Corp. is pleased to provide an update on its activities at three of its Nevada projects. At the Soda Lake operation, the Phase 1 Expansion program is on-going with further field optimization activities and new drilling planned to increase the plant output to its nameplate capacity of 23 MW from its current 13.5 MW. Costs remain well under the initial budget of \$18.2 million, with \$14 million spent as of the last quarter. These costs are expected to be qualified expenditures for the 30% U.S. Treasury Department Energy Grant cost recovery program.

The deep well drilled last year, 41B-33, is midway through a 28 day injection test to determine its potential to contribute to the full field water re-injection strategy. Concurrent with this test, the well's shallow production zone that was encountered during the initial drilling is being evaluated as a future producer to the plant. A new production well, 25A-33, is expected to begin drilling at the end of June to a target depth of 4,000 feet. Drilling pad preparation is underway at the site and a drilling rig has been contracted. Results from the drilling and subsequent testing of 25A-33 are expected in August.

The Phase 2 Soda Lake expansion has also commenced. Phase 2 targets an initial 14 MW online by the end of 2013, bringing the field output to 37 MW. The entire Soda Lake field has a combined Indicated and Proved gross output potential of 61 MW based upon the Geothermal Reporting Code. Seismic permits have been received and a seismic program will begin shortly, with temperature gradient wells expected to be drilled in late summer. Last year, Magma won a \$5 million Department of Energy Innovative Exploration and Drilling grant for this work and is receiving funding from the grant as expenses are submitted.

Andrea Zaradic, Magma's Vice President Operations and Development commented, "We are pleased with our Soda Lake field and plant optimization program, new production well targets and potential for further expansion. The team in place brings a wealth of knowledge that is leading to operational gains that will help conclude the Phase 1 Expansion and execute the Phase 2 plan."

Work is also underway at Magma's other Nevada properties. At McCoy, permits for 19 drill pads have been submitted and a magneto-telluric (MT) survey has been designed. A 1,000 foot deep temperature gradient well is planned for September pending permitting. At Desert Queen, Magma recently acquired two additional leases at the May BLM auction, thus improving its land position in the area. Drilling of four temperature gradient wells earlier this year has shown encouraging results.

See <http://www.magmaenergycorp.com/s/Projects.asp>.

Ormat Technologies: Status of Puna Geothermal Power Plant Updated

Press Release, June 15, Reno, Nev. — Ormat Technologies, Inc. (NYSE: ORA) today announced that its subsidiary, Puna Geothermal Venture completed the drilling and the mechanical cleaning of the production wells at the Puna Geothermal Power Plant located on the Big Island, Hawaii. Following the well field work the power plant is now back at full production.

Commenting on the results of the well field work, Dita Bronicki, Chief Executive Officer of Ormat said, "We are satisfied with the results of the well field work that was completed within the budget and on time."

See <http://www.ormat.com/investor-relations/news>.

University of Nevada Reno: New Director for Great Basin Geothermal Center

Wendy Calvin, a geophysics professor who participates on NASA Mars Exploration spacecraft missions has been appointed the new director of the Great Basin Center for Geothermal Energy in the College of Science at the University of Nevada, Reno. She has been at the Great Basin Center since 2002 and UNR since 2000. Calvin received her doctorate from the University of Colorado in Boulder.

"I would like to improve the visibility of the Center and expand the University's involvement in geothermal research on a national and possibly a global level," Calvin told press. "I want to improve our academic offerings in order to draw in strong candidates for geothermal research from across the nation. I look forward to the opportunity and the challenge of being the new director."

See <http://www.unr.edu/nevadaneews/templates/details.aspx?articleid=5465&zoneid=14> and <http://www.unr.edu/geothermal/>.



Renewable Energy and Climate Change

Report Says Biomass Power Plants Will Destroy Forests; Industry Disagrees

Two new reports say biomass-fired power plants are not a carbon-neutral alternative source of energy. Wood burning can cause more carbon dioxide to flow into the atmosphere per unit of energy than coal, oil, or natural gas, according to a Massachusetts study by the Manomet Center for Conservation Sciences. A week later, an Environmental Working Group analysis found that 30 million acres of trees could be lost and 4.7 billion tons of carbon emissions emitted by 2025, following a rise in demand for biomass plants.

Data for the EWG report was taken from two Energy Information Administration projections on the House climate bill. In one scenario, biomass power would comprise 8% total power generation by 2025, requiring 18 million acres of forests. In the second model, if carbon offsets were not allowed, biomass would provide 11% of all power generation, requiring 30 million acres of forests.

Biofuel Power Association President and CEO Bob Cleaves said, "I can tell you that if studies are being undertaken based on the assumption that whole trees will be cut down I reject that assumption." He said members of his association "do not burn whole trees to power plants, do not clear-cut forests and do not plant trees to power production." BPA members burn wood waste such as clippings, sawdust and tree limbs left over from timber operations, he said.

See <http://www.eenews.net/climatewire/2010/06/16/3/>.

Small Modular Nuclear Reactors Manufactured in China

Press Release, June 14 — Alternate Energy Holdings, Inc. (OTCQB: AEHI) - today announced the signing of a memorandum of understanding with New Mexico-based Hyperion Power Generation, Inc. The MOU is the beginning of a joint venture between the two companies to license, build and market Hyperion's refrigerator-sized modular nuclear reactors on a world-wide basis.

"I am extremely excited and honored to be a partner with Hyperion and its equally impressive 25 MW Hyperion Power Module. It is one of the most innovative products I've seen in my 46 years in the nuclear industry. Because of its small size the power plant's applications are limitless and could fuel a huge variety of important facilities including: hospitals, desalinization plants, emergency facilities, industrial parks, factories, military bases, and even small towns for many years. Because of its innovative and exclusive design, Hyperion's technology can even open up applications that no other production reactor can perform. Our partnership will make it possible to market the product internationally, and to locate specific applications in the United States," said Don Gillispie, AEHI CEO and Chairman.

"We chose AEHI to assist us in this endeavor because the company is independently operated, has unprecedented connections in the international community, especially in China, and is headed up by some of the most well-known and respected individuals in the nuclear industry. If there is one company that has the ability to successfully place the Hyperion product in the international spotlight, it is AEHI," said John R. "Grizz" Deal, Hyperion CEO.

Hyperion knocked the nuclear industry on its heels last year when company officials announced the ultra-small reactor, which already has more than 150 purchase commitments from customers such as mining and telecom companies. Unlike most reactors, Hyperion transportable reactors are sealed at the factory and are not refueled

onsite. When the reactor has exhausted its fuel, it is returned to the factory and a new reactor is simply installed in its place.

For more, see <http://www.alternateenergyholdings.com/inthenews/newsletterspress.aspx>.



State News

Idaho: DOE Increases School Geothermal Grant to \$5 Million

A geothermal project at Blaine County School District was given a boost by the U.S. Department of Energy which has increased its grant from \$4 million to \$5 million. The funds will now pay for one third of the \$15.1 million estimated cost for geothermal resource development and heating. The school district will be featured as a model program "Milestone Project" in national DOE literature. Work is expected to begin this summer with the additional \$10.1 million to be funded through a \$59.8 plant facilities levy, which county voters approved in October. See <http://www.mtexpress.com/index2.php?ID=2005131845>.

Nevada: University of Kansas Geologists Launch \$4.2 Million Geothermal Project

In Nevada's Clayton Valley, 150 miles from Reno the University of Kansas has begun the first phase on one of only 24 projects chosen by the U.S. Department of Energy under its Innovative Exploration and Drilling Program.

In the project's first phase, geologists will begin by creating detailed maps of the surface and subsurface using 3-D and 4-D thermochronometry. The data will measure the area's temperature history and will be used to find the best sites for test drilling.

The design is expected to make it easier and more profitable to power electric plants with geothermal energy. "We said, 'Let's not worry about whether there are any surface manifestations of heat. Let's think about the geology of the subsurface first and then go from there,'" said J. Douglas Walker, a professor of geology at KU who is also working on the project.

KU received \$2.4 million in federal stimulus funding. The project is expected to cost \$4.2 million and take three years to completion. The rest of the funding comes from the department and its collaborators, the University of Oklahoma and the Sierra Geothermal Power Corp.

Daniel Stockli, KU associate professor of geology, and Katie Keranen, an assistant professor at OU are heading the project. KU students as well as students from the department's diversity outreach program at the University of Puerto Rico in Mayagüez will work on every aspect of the project.

See <http://www.infozine.com/news/stories/op/storiesView/sid/41732/>.



International News

Chile and Peru: Magma Energy Provides Update on Chilean and Peruvian Exploration

Press Release, June 16 — Magma Energy Corp. (TSX: MXY) is pleased to provide an exploration update on our properties in Chile and Peru. In Chile, Magma has an exploitation permit enabling development of a 50 MW geothermal operation on the 4,000 hectare Laguna de Maule (Maule) property. Maule adjoins the 100,000 hectare Pellado property and together these properties encompass the Mariposa Geothermal Reservoir upon which Magma previously reported a 320 MW Inferred Resource.

Mariposa slim hole drilling in 2009 resulted in discovery well, MP-01. Magma recently completed MP-02 to a depth of nearly 900 meters and encountered temperatures and zones of permeability indicating a high quality geothermal resource. Data from MP-01 and MP-02 will be integrated to further develop the Mariposa reservoir

model. MP-02 is located at the edge of the Mariposa Reservoir and was drilled first due to road access limitations at the time.

Drilling is about to begin at MP-03, located in the heart of the Mariposa Reservoir, with a target depth of 1,500 meters. An all-season 25 km access road now connects the future drilling pads MP-04 and MP-05 to the current exploration activities. Magma's Icelandic experts have assisted in designing the drilling program for MP-02 through MP-05. The Mariposa development budget is \$15 million; costs to date are \$8.5 million.

In Peru, a four person exploration team will be performing a field campaign beginning in late June. The work will focus on surface geological and geophysical work, as preparation for a drilling campaign in 2011.

Dr. Catherine Hickson, Magma's Vice President Exploration and Chief Geologist commented, "We are fortunate to have such high quality geothermal land in Latin America coupled with an experienced team to develop projects. Magma is well positioned to become a leading power producer in this area."

See <http://www.prnewswire.com/news-releases/magma-energy-update-on-chilean-and-peruvian-exploration-96467049.html> and <http://www.magmaenergycorp.com/s/Projects.asp>.

China: Geysir Green Energy and Sinopec Form JV for Geothermal Energy

Press Release, June 18 — Sinopec (SNP.NYSE; 0386.HK; 600028.SH) Star Petroleum Company, a subsidiary of Sinopec, has signed a framework agreement with Iceland Geysir Green Energy on founding a joint venture to develop geothermal energy in China

Sinopec and Geysir plan to enlarge their existing geothermal district heating projects in northwestern China's Shaanxi and central China's Hebei province.

Su Shulin, general manager of Sinopec, said the geothermal energy development is strategically important and Sinopec aims to build the business into one of its main pillars within three years.

Sinopec plans to build Sinopec Star Petroleum into a leader in geothermal energy development, said the company.

See http://www.tradingmarkets.com/news/stock-alert/geyc_sinopec-signs-jv-with-iceland-geysir-green-energy-for-geothermal-energy-992957.html.

Guatemala: Ormat Amatitlan Power Plant Partially Restored

Press Release, June 21 -- Ormat Technologies, Inc. (NYSE: ORA) today updated the status of its Amatitlan Project. Following extensive cleanup efforts to remove ash from the recent volcanic eruption in Guatemala, all three power units of the Amatitlan Power Plant have been returned to service and the power plant is now selling power to the grid.

The majority of the damage caused by the eruption has been repaired and work is on going to address the impact of tropical storm 'Agatha'. Ormat estimates that remaining impact on generation will be between 5 to 6 MW for the next 3 months.

Commenting on the cleanup efforts Lucien Bronicki, Ormat's Chairman and CTO, said: "I would like to thank the crew members of the Ormat facilities and dozens of people from the neighboring communities who through their collaborative efforts accomplished the repair work diligently and expeditiously.

See <http://www.ormat.com/investor-relations/news>.

Indonesia: Pertamina to Add 110 MW Geothermal Energy in Sumatra

In Lempur village, Kerinci district in Jambi Province in Sumatra, rising energy needs will be met with two 55-MW geothermal power plants. Indonesia state oil firm Pertamina is expected to begin geothermal drilling activities next year; the project is currently in planning stages.

"Jambi province will need 275 MW of electrical power in the next five years, almost a two-fold increase from the current peak load of 150 MW," Irmansyah Herman, the head of the Jambi provincial mining and energy office, told press.

See http://www.rechargenews.com/energy/geothermal/article217749.ece?WT.mc_id=rechargenews_rss.



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



Notices

New This Week

Colorado Geothermal Working Group Presentations Posted on New Group Site

Presentations from the May 27 Geothermal Working Group meeting at the Denver Museum of Nature and Science are now posted at a new group site called Geothermal Energy in Colorado:

<http://coloradogeothermal.groupsite.com/>. By joining and participating in this site you will have access to geothermal resources, notices and communications, and networking opportunities. All members can post geothermal events to a calendar, join a forum for discussions, and access an index for finding contacts and resources.

Input Sought for Environmental Assessment, San Luis Valley Public Lands Center (July 7–8)

From BLM:

The San Luis Valley Public Lands Center (SLV-PLC) is seeking your input to guide an analysis which will re-evaluate existing geothermal leasing allocation, identify which lands to make available for leasing, and under what conditions. The analysis will be documented in an Environmental Assessment (EA) under the National Environmental Policy Act (NEPA) and is expected to form the basis to amend the Bureau of Land Management's San Luis Resource Area Resource Management Plan.

Two public meetings will be held to provide information and seek input concerning the analysis. Meetings will be held as follows:

- Wednesday July 7th, Saguache Community Center, 525 7th St, Saguache, CO
- Thursday July 8th, Room 130, Porter Hall, Adams State College, (2nd building north of Main Street, parking lot out front), 208 Edgemont Boulevard, Alamosa, CO

The meetings will start with an open house format from 6:30 p.m., with a presentation at 7 p.m., a question and answer period at 7:30 p.m., and followed by a continued open house until 9 p.m.

Information regarding the project will be posted as it becomes available on the SLV-PLC website at www.blm.gov/co/st/en/fo/slvplc.html. Additional information requests may be directed to slvplc_comments@blm.gov or via telephone to Joseph Vieira at the SLV-PLC at 719-852-6213.

Current Notices

Geothermal Power Plant Technician Program in Iceland

From the Keilir Institute of Technology: Recent developments within the technologies of geothermal power plants have led the expansion of technical training in Iceland to cope with the demand for technicians. The Geothermal Power Plant Technician course at the Keilir Institute of Technology is set to address the growing need for skilled geothermal power plant technicians as well as health, safety and environmental issues.

The Geothermal Power Plant Technician course at Keilir is split into two separate programs, which are then spread across two years. The first year is an Associate of Applied Science Degree (worth 60 ECTS), where students receive hands-on training in running and maintaining power plants. The second year is an Associate of Science Degree (also worth 60 ECTS), which is more focused on the academic methods and techniques used for planning daily operations, maintenance and purchasing equipment/spare parts – the combination of the two results in a total of 120 ECTS.

Students will show a great deal of initiative, implement improvements and perform follow-up actions throughout the program. Students will also be trained with a 'sense of ownership' towards running, operating and maintaining geothermal power plants. This will of course be beneficial towards the impact of long-term employment opportunities.

In addition, students will learn how to significantly reduce maintenance costs through specialized training, without the need for a manufacturer's service. The Geothermal Power Plant Technician Program is available from September 2011 at the Keilir Institute of Technology in Keflavik, Iceland.

To find out more regarding geothermal power in Iceland, the course and Keilir visit: <http://en.keilir.net> or contact Arnbjorn Olafsson, Department Manager at Keilir Institute of Technology.

California Transmission Planning Group Releases Phase 2 Study Plan

The 2010 CTPG Phase 2 Study Plan incorporates "comments and recommendations of many stakeholders and entities with roles in the planning, development, and implementation of transmission facilities, most notably the California Renewable Energy Transmission Initiative and the State's principal energy agencies," states the report.

"As more resource procurement scenarios become available and clearer, CTPG envisions that the transmission plans it develops will require additional reviews and further studies to reflect such updated scenarios as well as other relevant updates, including renewable resource development progress and changes in circumstances or regulations."

The report is available at http://www.ctpg.us/public/images/stories/downloads/2010-05-07_final_phase_2_ctpg_study_report.pdf.

Íslandsbanki's Releases Iceland Geothermal Market Report

From Íslandsbanki: Recently, Íslandsbanki published its first geothermal energy market report on its home market Iceland.

In the current economic environment, Iceland is looking more than ever to the energy sector as one of the potential key drivers for economic development and foreign investment. At the same time, there is a vigorous political debate about issues surrounding the development of new power generation capacity, foreign involvement, environmental aspects and the general impact of new development in the broader scheme of development.

The report aims to provide a constructive look at investment needs for geothermal power development in Iceland. It also seeks to highlight available opportunities and the depth of the experience in this sector in Iceland.

It comprises an overview of the current Icelandic energy market, geothermal energy in Iceland, the outlook for the energy market and geothermal energy, and investment needs.

With current installed electricity generating capacity from geothermal energy of 575 MW, Iceland ranks number 7 in the international context, deriving 62% of its primary energy consumption from geothermal sources. Current projects represent additional capacity of 1,080 MW with an overall potential of about 4,300 MW.

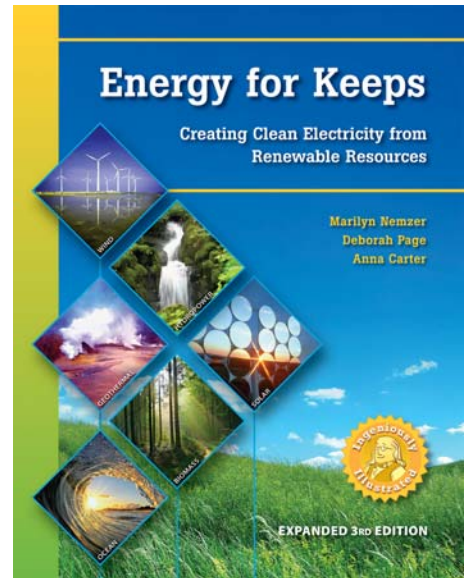
The report can be accessed via the website of the energy team at: www.islandsbanki.is/energy.

Award-Winning *Energy for Keeps* Introduces Expanded 3rd Edition

Energy for Keeps: Creating Clean Electricity from Renewable Resources is an illustrated guide for everyone who uses electricity. From students to energy policymakers, it helps readers of all ages understand the energy issues that now loom large in our daily news. With clear language and engaging illustrations, this book covers all renewable energy sources, the science of electricity generation, energy history, environmental considerations, and energy conservation and efficiency.

This not-too-technical book truly explains all the renewables in a comprehensive, impartial and even-handed manner. It includes biomass, geothermal, hydro, ocean, solar and wind. In its prior editions, *Energy for Keeps* won the 2004 Innovation Award by the Interstate Renewable Energy Council and the 2006 Green Power Leadership Award by the U.S. Environmental Protection Agency, the U.S. Department of Energy, and the Center for Resource Solutions.

Marilyn Nemzer, M.A., developer and editor of *Energy for Keeps*, has produced award-winning energy education projects and materials since 1990. She serves on several state and national advisory boards that focus on energy and the environment, is a trustee of the Marin County Board of Education and directs the Geothermal Education Office and the Energy Education Group. She is joined by lead write Deborah Page and technical editor Anna Carter. *Energy for Keeps* is available at www.energyforkeeps.org.



The Department of Energy Wants to Hear Your Stories

Energy Empowers (<http://www.eereblogs.energy.gov/energyempowers>) is all about your stories from the clean energy economy. This blog and multimedia site run out of DOE's Office of Energy Efficiency and Renewable Energy seeks to put a human face to the people, places, technologies and developments that will define our energy future – showing everyone that these advancements are real, growing and becoming part of our communities around the United States. We encourage everyone working in the energy space to visit and share their own success stories at <https://www1.eere.energy.gov/pnp/stories/stories.aspx>.

These stories can include DOE and ARRA projects, but we are also eager to see communities, private citizens and businesses taking the initiative in building America towards a clean energy future.

DOE Geothermal Technologies Database Available On-Line

The Geothermal Technologies Program's (GTP) projects database details various GTP-funded projects throughout the United States. You can search this database by keyword, state, project title, technology, awardee, partner, Funding Opportunity Announcement (FOA) number, or funding source. For each project you will find a profile that includes background information, objectives and milestones, and a listing of participants.

See <http://apps1.eere.energy.gov/geothermal/projects>



Employment

Added This Week

Executive Assistant, Magma Energy, Vancouver, BC

Job Description

The Executive Assistant will provide administrative support as required by the various members of senior management of Magma Energy Corp and a related group of companies, in a professional and efficient manner.

Administrative Support to Senior Management

- Word processing (financial statements, excel spreadsheets, other documents)
- Preparation of expense reports
- Travel arrangements
- Travel arrangements for guests
- Assist with special projects
- Other assistance as required

Administrative Support to Investor Relations

- Assist with the dissemination of news releases, preparation of presentation material and investor kits, as required; strong skills in PowerPoint and Publisher or similar programs required
- Liaise with website host for major site changes; some in house website updating for minor changes
- IR support, as directed by the VP - Corporate Relations
- File maintenance

Administrative Support to Accounting

- Disseminate checks to vendors
- Filing
- IT administration (maintenance of control logs, rotation of backup tapes, liaise with IT providers)

Office Administration

- Some reception duties

For consideration please email resumes to:

Alison Thompson, VP Corporate Relations

athompson@magmaenergycorp.com

Employment Opportunities**Drilling Manager, NV****Duties and Responsibilities:**

- Prepare rig data sheets for design for drilling equipment and safety factors
 - Collect P&L reports from accounting and report status to VP of Drilling
 - Responsible for the day to day drilling operations within the drilling company
 - Set and manage cost control
 - Set and monitor operational budgets
 - Coordinate all rig and equipment movements
 - Review, approve and submit request for equipment and materials of producing the contractual output.
 - Lead and direct the Drilling Department to meet/or exceed the operational goals of quality, efficiency, productivity and cost controls
 - Manage the supplier relationships in order to leverage suppliers to guarantee best price of equipment and materials and manage the cash/risk exposure
 - Develop and implement new strategies for upgrade and improvement of the drilling rigs and drilling processes on a regular basis
 - Commence and review all initiatives requiring capital authorization
- Initiate and maintain health and safety procedures to ensure compliance to all local regulatory agencies
- Develop and manage maintenance program

Supervisory Responsibilities:

- Supervises Drilling Superintendant and all subordinate positions including Tool Pushers and their crews on all of Drilling Company's land rotary drill rigs

Qualifications:

- 15–20 years operational experience in the drilling industry or equivalent.

- Proven track record of successful achievement of operational excellence in a drilling organization
- Consistent success in the improvement of planning and scheduling of drilling activities
- Senior work planning and project prioritization skill sets
- Experience in the development and measurement of Key Performance Indicators
- Excellent motivational skills

Contact:

Andrew Matkovic / Vice President Clean Tech & Energy
(216) 539-7668 or andrewmatkovic@carmongroup.com

Geologist, Ormat Technologies, El Centro, CA

Position Summary

Employee will conduct geological evaluations of geothermal projects throughout the world. Assist Project Manager in preparing reports, drilling records, and daily costs. Conduct geothermal exploration programs utilizing geological, geochemical, and geophysical methods as directed by Project Manager. Aid with execution of contract exploration and drilling programs as defined by Project Manager. Help in planning, reporting, and documentation of activities.

Essential Functions

- Prepare geologic maps that incorporate geochemical/geophysical data.
- Prepare technical reports.
- Compile data sets and evaluate data.
- Coordinate contract drilling and exploration services.
- Prepare lithological and temperature logs,
- Oversee drilling operations under supervision of Project Manager.
- Research existing literature and prepare summaries for project evaluation.
- Prepare subsurface and structure geological maps under supervision of Project Manager.
- Learn drilling operations.

Other Responsibilities

- File reports.
- Maintain well and prospect files.
- Aid drilling staff.

Education, Experience and Skills Required

- Bachelor Degree in Geology/Engineering.
- Lithological mapping of boreholes.
- Field mapping experience.
- Proficiency in computer applications such as CAD and MS Office.

Physical Requirements

- Ability to navigate and work in remote field locations.
- Work outdoors in difficult weather conditions.
- Ability to lift 75 pounds.
- Travel approximately 60% of time.
- Drive in remote terrains using 4 wheel drive vehicles.

To apply click here: <https://home.eease.adp.com/recruit/?id=487718>

Staff Geologist, Ormat Technologies, Reno, NV

Position Summary

Conduct geologic field evaluations of geothermal exploration projects and integrate with existing published data to assist in definition of new development projects. Assist Manager in preparation of geologic/geophysical reports and conduct independent mapping, sampling, drilling and geophysical programs as directed by Manager. Assist

with execution of contract geophysical and drilling projects as defined by Manager. Assist in planning, reporting and documentation of geologic investigations.

Essential Functions

- Prepare geologic maps and presentations of geophysical/geochemical data
- Prepare technical reports under supervision of Project Manager
- Compile data sets and evaluate data quality using statistical and graphical methods
- Coordinate contract field crews performing geotechnical evaluations
- Prepare lithologic and temperature logs of boreholes
- Sample outcrops, soils, springs and wells for geochemical analysis
- Oversee gradient and slimhole drill site operations
- Perform structural interpretations and stress-field analysis of prospect areas
- Schedule and arrange environmental site clearance for drilling activities
- Research existing literature and prepare summaries for project evaluation
- Assist in acquisition of remote sensing imagery and integration into mapping and GIS data bases.

Other Responsibilities

- File reports and samples with regulatory agencies
- Maintain well files and other geotechnical files
- Assist drilling staff in location of access roads and well pads
- Maintain inventories on exploration materials and equipment

Education, Experience and Skills Required

- Masters Degree in Geology, preferred
- Field mapping experience with structural background
- Geophysical or geochemical training
- Proficiency in visual presentations using computer applications such as CAD, Rockworks, Surfer, as well as MS Office Applications

Physical Requirements

- Ability to navigate and work in remote field locations
- Work outdoors in difficult weather conditions
- Ability to lift 50 lbs periodically
- Travel approximately 40% of time

To apply click here: <https://home.eease.adp.com/recruit/?id=495811>

Geophysicist, Calpine, The Geysers, CA

Essential Duties and Responsibilities:

Continuously evaluate and update the state of seismicity in The Geysers. Report to management and staff on the progress of such evaluations. Interface with researchers at the national laboratories (e.g. Lawrence Berkeley National Laboratory), the U.S. Geological Survey and universities conducting investigations of Geysers seismicity and related phenomena (e.g. subsidence). Assist in the planning and execution of drilling programs and injection strategies. Assist in the evaluation of geothermal reservoir performance.

1. Evaluation of induced seismicity in The Geysers steam field. This will be an ongoing effort to constantly upgrade and update our understanding of the relationship between seismic activity and production/injection.
2. Report to staff and management on the progress of seismic evaluation.
3. Interface with researchers at the national laboratories, the USGS and universities conducting studies of induced seismicity in The Geysers. Facilitate the exchange of information useful in advancing knowledge of Geysers seismicity.
4. Work with Resource and Reservoir Engineering staff to evaluate injection strategies with respect to their potential effects on seismicity. Conduct and/or assist in the design of reservoir injection tests to evaluate effects on seismicity of various injection strategies.
5. Supervise the work of consultants in preparing periodic reports on Geysers Seismicity in fulfillment of stipulations in use permits and environmental documents.

6. Assist in the planning and execution of injection strategies.
7. Participate in the planning and execution of drilling programs for new wells, redrills of existing wells and workovers. Develop drilling targets and casing program recommendations.
8. Develop (with the assistance of Resource staff) a working knowledge steam field reservoir geology and geochemistry. Acquire proper field techniques of obtaining geochemical samples.
9. Assist in evaluating potential geothermal properties acquisitions.
10. Conduct or assist in geotechnical evaluations of potential landslides and mitigate risks to Calpine assets in the Geysers.

Qualifications:

1. Strong academic background in seismology, supported by a sound geological background, especially in structural geology and petrology.
2. Highly developed computer skills. Expertise with databases, spreadsheets, mapping programs, etc.
3. Ability to represent Calpine at community meetings in which steam field seismicity may be a major topic. Presentation skills, in particular, ability to convey technical concepts to "laymen" are a necessity.
4. Ability to clearly, effectively and concisely communicate, both orally and in writing, at all levels within the Corporation.

Education:

M.S. or Ph.D. degree in Geology/Geophysics required from an accredited academic institution that has an active Geology Department.

Experience:

Minimum of three to five years in the following experience is considered highly desirable:

1. Prior work experience with a resource based company, state or federal geological survey or national laboratory.
2. Participation in study or studies relating to induced seismicity.
3. Geological/geophysical field work, including installation/maintenance of seismic array, geologic mapping or geotechnical studies.

To apply online, see

https://www.hrapply.com/calpine/AppJobView.jsp?link=3645&page=AppJobList.jsp&skimSessionName=com.hrlo.gix.view.cont.app.JobListTable&skimName=requisition.requisition_id&skimNdx=4&op=reset.

Geothermal Operations Manager, CalEnergy Operating Corporation, Calipatria, CA**Purpose of Position:**

The geothermal operations manager is accountable for the development and execution of the CalEnergy Operating Corporation (CEOC) Operations Business Plan. This individual develops the department's annual budget and is accountable for CEOC power generation revenues and operations sites. The geothermal operations manager develops and implements long range plans, provides leadership and direction to plant operating personnel and is responsible for the overall safe, environmentally clean and effective performance of power production facilities for CEOC. Responsibilities and duties are carried out in accordance with the company's policies and procedures, as well as all applicable governmental regulations and guidelines. Work is performed under the direction of the president of CalEnergy Generation U.S.

Direct Reports:

- Operations site managers
- Technical trainer
- Administrative specialist

Primary Job Duties and Responsibilities (Essential Job Functions):

- Adhere to, support and enforce all safety and environmental rules, policies and procedures, regulations and statutes.
- Develop both long and short term strategic operating direction and establish implementation plans to achieve targeted goals.

- Commit the sale of megawatts to established buyers to maximize company profit.
- Perform administrative activities necessary for the effective management of the department, including employee safety, selection and development of employees, salary administration, budget administration, employee counseling and motivation, organization goals and objectives and planning, organizing, integrating, measuring and reporting the work performed within the department.
- Maintain focus on critical plant parameters and programs.
- Make recommendations and decisions that support the company goals and business needs.
- Define, communicate, and acquire resources needed to most effectively operate the facilities.
- Define technical support needed.

Qualifications:

- Bachelor's of science degree in electrical, mechanical, chemical, industrial or petroleum engineering from an accredited university or equivalent training/experience. (Typically six years of related, progressive work experience would be needed for candidates applying for this position who do not possess a bachelor's degree.)
- Six or more years of related experience in plant operations and maintenance with five or more years of experience at the managerial level is required.
- Knowledge of PC software applications including spreadsheet, word processing, and database.
- Effective verbal and written communication skills, including presentation skills.
- Effective analytical, problem solving and decision-making skills.
- Ability to prioritize and handle multiple tasks and projects concurrently.
- Ability to read and interpret written documents such as accounting reports, safety rules, policy manuals, and professional periodicals/journals. Ability to write routine reports, business correspondence and manuals. Ability to effectively present information and respond to questions from groups of managers, clients, customers, and employees at all levels.
- Ability to define obscure and incomplete problems, collect data, establish facts, and draw valid conclusions. Able to conceptualize and develop creative alternatives to problem resolution. Capability of interpreting an extensive variety of technical instructions in written, oral, diagram or schedule form. Ability to deal with abstract and concrete concepts.
- A valid California's driver license is required upon employment.

***Note: New Contact Number:** Contact Lori Rinkert, Sr Recruiter, MidAmerican Energy at 515-281-2707 or lrrinkert@midamerican.com

Environmental & Permitting Manager, Raser Technologies, Provo, UT

Job Summary: This position is primarily responsible for obtaining, coordinating and managing all of the company's permitting and environmental compliance activities.

Essential Functions:

- Works with department heads in the project planning process to coordinate and manage all of the company's permitting and environmental compliance activities.
- Prepares and submits all federal, state and local permit applications across department lines e.g. drilling, air, storm water, water rights, CUP, Haz Mat, ROW, construction, etc.
- Prepares and tracks permitting budget.
- Procures the services of and manages environmental contractors who perform permit related activities e.g. Phase I, EA, cultural resource and wildlife surveys, hydrologic and soil studies, etc.
- Prepare compliance matrices (punch list) to be utilized by on-site personnel in maintaining regulatory/permit compliance.
- Provide regular training to on-site managers and personnel to allow them to correctly and effectively comply with regulatory/permit requirements.
- Conducts environmental site reviews, manages permit issues, incident reporting, as well as auditing contractors and other on-site third parties for compliance to regulatory requirements.
- Continually evaluate the status of permitting and compliance activities of each project and plant site with the objective of ensuring that all required environmental permits are in place and that all the requirements and applicable Federal, State and Local rules are in compliance.

- Regularly travels to project locations as well as to meet with stakeholders.
- Management of Occupational Health and Safety.
- Coordinates and collaborates with other departments of the corporation in establishing and carrying out responsibilities.
- Maintains appropriate communications within area of responsibility.
- Consults with all segments of management responsible for policy or action. Ensures compliance within area of responsibility. Makes recommendations for improving effectiveness of policies and procedures.
- Assumes other activities and responsibilities from time to time as directed.

Qualifications:

- Bachelor's Degree in related field e.g. environmental engineering, environmental science or other related science discipline.
- Five or more years related experience in permitting and environmental compliance.
- Demonstrated success in environmental permitting and regulatory compliance activities, particularly working with; BLM and other federal agencies, state agencies; e.g. oil & gas, state engineers, AQ and environmental quality and local rural governments.
- Excellent technical writing skills.
- Strong negotiation skills.
- Proficient in Microsoft Word and Excel. GIS and Primavera a plus.
- Geothermal renewable energy experience is preferred but not required.

Competencies:

To perform the job successfully, an individual should demonstrate the following competencies to perform the essential functions of this position.

- Strong work ethic, with a high level of energy and commitment to the position.
- Effective leadership skills which demonstrate the ability to participate in strategic thinking and problem solving.
- Excellent communication and presentation skills, both oral and written, with the ability to communicate with individuals at all levels both internally and externally.
- Well-developed interpersonal skills. Ability to get along with diverse personalities. Tactful, mature.
- Ability to establish credibility and be decisive—but able to recognize and support the organization's preferences and priorities.
- Ability to function effectively and efficiently in a fast-paced and changing environment with multiple priorities and objectives.

Compensation will include base salary and performance-based stock incentive based on level of experience. We also offer a full range benefit package.

Further information on Raser may be found at: www.rasertech.com.

Resumes can also be directly submitted to: jobs@rasertech.com.

Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID

Idaho National Laboratory is seeking a Renewable Energy Mechanical Systems Engineer. This position will involve the assessment of the overall design and operation of geothermal power plants, as well as individual processes and components within a plant. It will also support development of power system performance assessments and designs. The candidate must be able to apply and interpret standard theories, principles, methods, concepts, tools, and technologies associated with electrical power generation from renewable power sources. Work will include evaluation of the effects of innovative concepts and components on power generation costs. The candidate will make preliminary selections and adaptations of technical alternatives. The candidate will provide technical support to the DOE and Work for Others (WFO) customers, which will vary in nature, but will include planning, engineering design, data analysis and analytical support activities as well as monitoring of DOE field research projects. In addition to interfacing with customers, the candidate is expected to document, report and present results on work performed, contribute to program progress reports, participate in peer review work of others and manage individual cost and schedule performance metrics. The candidate will contribute to development of new capabilities within the division as well as contribute to scientific and technical products such as patents, software, journal papers, reports, proceedings, and policies. The candidate may also contribute to the development of intellectual property leading to patents, publications, and/or copyrights.

Qualifications

S&E Scientist/Engineer 2. A PhD in Mechanical Engineering with relevant experience in power generation is preferred. Applicants with a MS in Mechanical Engineering with two years of relevant post graduation experience in power generation or a related field will be considered. Applicants with Chemical Engineering degrees and documented experience in Geothermal Power Plant design and operations will be also considered, though a Mechanical Engineer degree is preferred. Ability to obtain and maintain and Department of Energy Q security clearance. Must be a United States citizen.

Job ID: #5414, Interested Candidates, please contact:

Vanessa Van Dyk at Idaho National Laboratory: Vanessa.VanDyk@inl.gov, 208-526-6325

OR apply on line at: www.inl.gov/careers

Project Manager

Summary: Responsible for implementation of all aspects of project development from project inception through turn-over to engineering for final design and construction and provide assistance after turn-over to engineering as needed. Will manage multi-disciplinary teams, focused on executing company developmental plans and achieving project goals.

Duties and Responsibilities:

- The PM's two fundamental responsibilities are preparing and maintaining project schedules and budgets. As necessary the PM draws on resources (Development, Senior Scientists, top management) to meet the master project schedule and budget as approved by top management.
- Responsible for oversight, facilitation and implementation of all aspects of project development from initial prospect evaluation to turn over to engineering for final design. Key project factors (schedule, budget) are set by top management. PM's role is to ensure that top management policy is met.
- Negotiates contracts and other agreements related to the sale and transmission of electricity.
- Assists in preparation of financial documents to raise funding necessary to fund project
- Manages Project Development team
- Manages Consultants through the selection process, task assignment, coordination of actions, and quality control.
- Oversee all project land/lease acquisition activities, including contract negotiations.
- Oversees selection of transmission line routes, locations and corresponding transmission agreements
- Provide support to geoscience, drilling, legal, finance, engineering and other departments as needed.
- Meets with government officials and public as necessary.

Supervisory Responsibilities:

- Oversee various project managers, engineers and consultants to facilitate the timely completion of geothermal projects. Direct staff will consist of 3-6 employees.

Qualifications:

- Bachelor's degree (B.A. /B.S.) in related field or equivalent preferred.
- Six or more years related experience.
- A broad understanding of permitting on federal lands, drilling, resource development, power plants and transmission systems.
- Ability to gather project information sufficient to create very detailed project development schedules and to build detailed project budgets and financial models to facilitate implementation of the schedules.

Contact: Andrew Matkovic / Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668

Development Engineer

Summary: Responsible for taking the lead on negotiating the technical sections and provisions in all major project contracts and agreements including; Power Purchase Agreements, Transmission Service Agreements, Interconnection Agreements, EPC contracts and project financing agreements.

Duties and Responsibilities:

- Work closely with the VP of Project Development and Legal Department to develop and negotiate the technical provisions in all major project contracts and agreements including PPAs, TSAs, LGIAs, EPC contracts and project financing agreements.
- Negotiate the technical provisions of the major project contracts.
- Coordinate with Management to acquire the technical information required to negotiate all major contracts and agreements.
- Provide progress reports to upper management

Qualifications:

- Demonstrated strong negotiation skills
- Minimum 10-15 years of power plant engineering and construction experience, geothermal or other renewable energy experience desired.
- Minimum of 5 years experience negotiating major contracts for the development of power plant projects.
- Strong knowledge of power plant O&M requirements including scheduling & dispatching energy, metering, maintenance & outage planning.
- Strong knowledge of Nevada and California Utility requirements and concerns with negotiating with Independent Power Producers.
- Strong knowledge of ISO requirements (particularly Nevada and California)
- Strong knowledge of selling power and Renewable Energy Credits on the open market.
- Self starter, excellent problem solving skills, excellent people skills
- Proficient oral and written communication skills
- Proficient computer skills
- Bachelor degree in engineering or equivalent

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668

Project Manager Geothermal Exploration, Europe

Job Description

We are a new geothermal energy company, focused on the exploration and development of geothermal power resources in Europe. In 2010, we will be expanding our investigations of several regions that may host economic geothermal resources. Our principals are based in Canada and the US and have successfully developed oil & gas, mining and geothermal resources.

We require a project manager with field experience in geothermal exploration to coordinate in-country staff, consultants and contractors. This individual will have broad responsibility for project planning and management, budgets, liaising with government agencies, characterizing resources with appropriate exploration methods, and preparing detailed reports to describe a number of geothermal aquifers and their relative potential.

We are now interviewing candidates for this assignment. This is a contract position based in Europe that will require in-country and international travel. The initial term of this contract will be one year with the potential of extension for a second year. We will provide an excellent compensation package to the right person including equity incentives. This is an attractive and rewarding opportunity for an entrepreneurial professional.

Responsibilities

- Design and manage the exploration programs
- Prepare and manage budgets
- Manage local staff, consultants and contractors
- Liaise with land owners and local and national governments

- Coordinate geological, geochemical and geophysical studies
- Develop geological and resource models
- Supervise exploratory drilling operations
- Prepare detailed assessments of target geothermal resources
- Prepare funding applications for development and technical assistance

Requirements

- Geology or Geophysics degree, professional certification
- Over 10 years experience in the exploration of geothermal resources
- Oil & gas or mining background will be considered
- Proven leadership and project management abilities
- Proven negotiation and communication skills
- Strong geological and geophysical interpretive skills
- Experience using computer software applicable to exploration
- A problem solver, "get it done" attitude

Location: Europe

Contact: droberts@penderfinancial.com



Requests for Proposals

Added This Week

Resource Assessment, Below Ground Engineering, Binary Technology for Power Plant, SMU

SMU Geothermal Laboratory has been contacted by the owner of a couple of wells in Goliad County, Texas (Wilcox formation, ~ 14,000 feet) who is interested in developing the abandoned wells for geothermal energy.

This could be a submitted proposal to the Department of Energy's Solicitation for Geothermal Energy Production DE-FOA-0000318 Geothermal Energy Production from (B) Coproduced Fluids.

SMU is willing to assist on the project but needs a leading company to perform the resource assessment and the below ground engineering.

TAMU - Texas Engineering Experiment Station (TEES) is interested in working on the project and is willing to perform the economic study, with their prime interest in the Technology.

We have a company willing to provide the above ground engineering for the power plant.

Still needed: resource assessment, below ground engineering, binary technology for power plant

If you are interested in being the lead for this project or can contribute, please let me know.

Maria Richards
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RFP Announcements

State Energy Program, U.S. DOE (May 18 — August 3)

The U.S. Department of Energy requests proposals for the State Energy Program (SEP). This formula grant program provides support to states and territories, for the design and implementation of energy efficiency and renewable energy priorities. Lead applicant must be the state or territorial energy office administering the annual SEP. \$25 million expected to be available, up to 56 awards anticipated. Due date range 5/18 – 8/3/10. For more info, contact Sheldon Funk at sheldon.funk@netl.doe.gov or go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000308&agency=DOE>. Refer to Sol# DE-FOA-0000308. (Grants.gov 3/26/10)

Efficiency and Renewables in Rural America, DOA (June 30)

The U.S. Department of Agriculture requests proposals for Renewable Energy Systems and Energy Efficiency Improvements, under the Rural Energy for America Program. This RFP will provide support to agricultural producers and rural small businesses to purchase and install renewable energy systems and make energy efficiency improvements. \$51.5 million expected to be available, up to 2,000 awards anticipated. Responses due 6/30/10. For more info, go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=54175>. Refer to Sol# RDBCP-10-REAP-RES-EEI. (Grants.gov 4/30/10)

Department of Commerce Requests Comments on National Renewable Energy and Energy Efficiency Export Strategy (July 1)

In response to President Obama's National Export Initiative (NEI), the U.S. Government is creating a National Renewable Energy and Energy Efficiency Strategy to be published in September. The Strategy will provide a roadmap to facilitate the doubling of renewable energy and energy efficiency exports in the next five years to help meet the goals of the NEI. To provide comments or feedback that could be useful for the development of the Strategy, please refer to the following Federal Register Notice: <http://edocket.access.gpo.gov/2010/2010-12982.htm>. Ideas and suggestions regarding existing government programs, new potential programs, and new collaborations are welcome to be emailed to newenergy@trade.gov. Please provide comments by July 1.

Renewable Energy Certificates, Defense Logistics Agency (July 6)

The Defense Logistics Agency seeks 320,604,000 kWh of Renewable Energy Certificates, for ultimate transfer to the U.S. Air Force and various Federal Civilian customers. Responses due 7/6/10. For more info, contact Ashleigh Johnson at Ashleigh.Johnson@dla.mil or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=49cd8daa9c23d79414dcf707275279b7&tab=core&_cview=0. Refer to Sol# SP0660-10-R-0432. (FBO 5/28/10)

Energy Technologies to the Market, DOE (July 9)

The U.S. Department of Energy requests proposals for Innovation Ecosystem Development Initiative. This RFP will support projects that create or enhance an environment to accelerate the movement of innovative energy technologies to the market. \$2.1 million expected to be available, 2 awards anticipated. Response due 7/9/10. For more info, contact Mary Crow at crowml@oro.doe.gov or go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000356&agency=DOE>. Refer to Sol# DE-FOA-0000356. (Grants.gov 5/21/10)

Department of Energy Announces \$20 Million to Boost Development of Innovative Geothermal Technologies (July 9)

From DOE – U.S. Department of Energy today announced up to \$20 million for research, development, and demonstration of cutting-edge geothermal technologies that could reduce U.S. demand for fossil fuels and significantly cut greenhouse gas emissions. DOE's objective through this funding opportunity is to demonstrate the technical and economic feasibility of non-conventional geothermal energy technologies in research areas including low-temperature fluids, geothermal fluids recovered from oil and gas wells, and highly pressurized geothermal fluids. Through this research, the Department hopes to provide clean, low-cost renewable energy by proving and commercializing technologies that might otherwise remain out of reach.

Funding will be available in the following topic areas:

- A. Low-temperature geothermal fluids at temperatures up to 300° Fahrenheit (F) or approximately 150° Celsius (C)
- B. Geothermal fluids produced from productive, unproductive, or marginal oil and gas wells, mining operations or other hydrocarbon or mineral extraction processes.
- C. Highly pressurized or “geopressured” fluid resources that show potential for cost-effective recovery of heat, kinetic energy, and gas.

Potential project proposals might include innovative cooling systems – for example, air-cooled, water-cooled, or hybrid systems – or use innovative working fluids. Other concepts might utilize more efficient heat exchanging materials or maximize of energy output through a combination of electricity generation and direct-heat technologies.

Prospective applicants for this Funding Opportunity Announcement are encouraged begin developing partnerships, formulating ideas, and gathering data for potential applications. The expected close date of this announcement is July 9, 2010.

The complete Funding Opportunity Announcement can be viewed on FedConnect:

www.fedconnect.net/FedConnect/PublicPages/PublicSearch/Public_Opportunities.aspx

DOE's Geothermal Technologies Program works in partnership with U.S. industry to establish geothermal energy as an economically competitive contributor to the U.S. energy supply.

For more information on these awards, please visit:

http://www1.eere.energy.gov/geothermal/low_temperature_resources.html

Midsize Turbine Development Projects, DOE (July 14)

The U.S. Department of Energy requests proposals for Midsize Turbine Development Projects. Through this RFP, DOE seeks to accelerate the development and availability of midsize turbines for the U.S. market with the ultimate goal of commercial deployment. Specifically, DOE seeks innovative advances in midsize turbine technology development; value engineered midsize turbines with a competitive price; and increased job creation by the utilization of U.S. manufacturers and supply chain vendors. \$6.028 million expected to be available, up to 4 awards anticipated. Responses due 7/14/10. For more info, contact Pamela Brodie at pamela.brodie@go.doe.gov or go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000327&agency=DOE>. Refer to Sol# DE-FOA-0000327. (Grants.gov 5/25/10)

Manufacturing Innovations, DOC (July 15)

The U.S. Department of Commerce, National Institute of Standards and Technology (NIST), requests proposals for the Technology Innovation Program, in the area of “Manufacturing.” Through this RFP, NIST seeks to create significant improvements in new and existing products and in their manufacture by accelerating the utilization of materials advances and overcoming critical manufacturing process bottlenecks to improve the competitiveness of U.S. manufacturers in the global marketplace. \$25 million expected to be available, up to 25 awards anticipated. Responses due 7/15/10. For more info, contact Deborah Dubeau at deborah.dubeau@nist.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=53791>. Refer to Sol# TIP-2010-B01. (Grants.gov 4/15/10)

Agricultural and Rural Energy Audits and Renewable Energy, DOA (July 26)

The U.S. Department of Agriculture requests proposals for Energy Audits and Renewable Energy Development Assistance Grants. The purpose of this RFP is to help agricultural producers and rural small businesses reduce energy costs and consumption and help meet the nation's critical energy needs. This RFP will provide support to agricultural producers and rural small businesses for energy audits and renewable energy development assistance. \$2.4 million expected to be available, up to 30 awards anticipated. Responses due 7/26/10. For more info, including Regional contacts, go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=54851>. Refer to Sol# RDCP-10-REAP-AUDITS. (Grants.gov 5/27/10)

Climate Adaptation and Disaster Resilience – Indonesia (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&oppld=50515>. Refer to Sol# APS10-005. (Grants.gov 12/7/09)

Greenhouse Gas Mitigation, Indonesia (September 15)

The U.S. Agency for International Development Mission in Indonesia requests applications for the Greenhouse Gas Mitigation Program. This RFP will support projects to reduce greenhouse gas emissions in both the land use/forestry sector and the energy sector. \$1.5 million expected to be available, up to 2 awards anticipated. Responses due 3/30/10 and 9/15/10. For more info, contact Dominicus Soenarno at aps10-011@usaid.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=51783>. Refer to Sol# APS-INDONESIA-10-011. (Grants.gov 2/12/10)

Black Carbon, Climate and Air Quality (September 22)

The U.S. Environmental Protection Agency requests proposals for Black Carbon's Role in Global to Local Scale Climate and Air Quality. This RFP will support areas including but not limited to: Emission source research, the global to local scale emissions inventory, and co-pollutants. This RFP will also support opportunities for early career projects. \$7 million expected to be available, up to 9 awards anticipated. Responses due 9/22/10. For more info, contact Bryan Bloomer at bloomer.bryan@epa.gov or go to: http://www.epa.gov/ncer/rfa/2010/2010_star_blackcarbon.html. Refer to Sol# EPA-G2010-STAR-L1 and EPA-G2010-STAR-L2. (Grants.gov 5/19/10)

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)

Power, Controls and Adaptive Networks, NSF (October 7)

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 10/7/10. 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 2/17/1)



Events

Added This Week

XVII Congress of the Mexican Geothermal Association, Morelia, Mich., Mexico (October 8)

Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana)

<http://www.geotermia.org.mx>

GEA Events

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

GEA will be holding a one-day "Geothermal Energy and Utilities Forum" in Las Vegas, NV on Thursday, July 22nd at Bally's. The program seeks to address issues related to geothermal examined from a utility perspective. Participants will hear the most recent updates available on the U.S. geothermal market, accompanied by expert presentations on approaches to utility scale projects in the U.S., federal and state support for utilities and renewables, reducing costs through time reduction, risk assessment, technology options, oil gas and co-production, small power, transmission issues, and more.

You'll find out information and perspectives on project development, technology, finance, community and environmental issues. Come join the collaboration between leading geothermal experts from around the nation to collectively increase geothermal energy's production output.

To register: <http://www.gifttool.com/registrar/ShowEventDetails?ID=1872&EID=7126>

To view the preliminary draft agenda: <http://www.geo-energy.org/workshops/UtilityWSPreliminaryAgenda5.13.2010.pdf>

If you are interested in sponsoring the Geothermal Energy and Utilities Forum: <http://www.geo-energy.org/workshops/LasVegas2010Sponsorships.pdf>

With any questions, please feel free to email Kathy Kent at kathy@geo-energy.org.

For media credentials, please contact Garret Drexler at 646-695-7042 or garret@rosengrouppr.com.

GEA Geothermal Energy Expo and GRC Annual Meeting, Sacramento, CA (October 24-27)

Exhibitor Registration is open. Booth spaces are more than 75% sold out, please book soon!! Register at <http://www.geothermalenergy2010.com/>.

Every year, the Geothermal Energy Expo® hosts the world's largest gathering of vendors providing support for geothermal resource exploration, characterization, development, production and management. It provides a unique opportunity for exhibitors to showcase their projects, equipment, services and state of the art technology to the geothermal community. The Expo is held in conjunction with the GRC Annual Meeting, www.geothermal.org.

Last year's count was 2300 participants and planning shows this year's numbers will top it. This year the Expo will be held in Sacramento, CA at the Sacramento Convention Center Complex, a component of the City of Sacramento Convention, Culture and Leisure Department.

Exhibitor Benefits include:

- * 50-word company listing in the official event guide
- * Exhibit Booths are 10' x 10' and has an 8' high back drape and 3' high side drapes
- * A 7" x 4" identification sign with the Exhibitor's name and space number
- * Each booth will also include a table, two chairs and a wastebasket.
- * Enhanced Exhibitor Listing on event website, www.geothermalenergy2010.com
- * For every 100 sq ft exhibitors receive 3 booth staff passes
- * Complimentary Expo Hall passes to distribute to your clients and customers

To view the floor plan for the 2010 Expo, please go to: http://www.geothermalenergy2010.com/floor_plan.asp

To register as an Exhibitor, please go to: <http://www.geothermalenergy2010.com/registration.asp>
To view the Exhibitors contract for 2010, please go to: <http://www.geothermalenergy2010.com/contract.asp>

More information including sponsorship opportunities, room block, and special events coming soon. We are looking forward to another great Expo! Please do not hesitate to let us know if you have any questions.

Contact: Kathy@geo-energy.org

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.

Other Events

CanGEA's Third Annual Conference & Trade Show, CanGEA, Vancouver, BC, (August 8–10)

Canadian Geothermal Energy Association

<http://www.cangea.ca/>

Geothermal Investment Forum and Networking Event, CanGEA, Toronto, ON, (September 14)

Canadian Geothermal Energy Association

<http://www.cangea.ca/>

Geothermal Investment Forum and Networking Event, CanGEA, Calgary, AB (December 3)

Canadian Geothermal Energy Association

<http://www.cangea.ca/>

Geothermal Energy Utilization Associated with Oil and Gas Development, SMU Geothermal Laboratory, Dallas, TX (June 13–15, 2011)

GEOHERMAL ENERGY WEEKLY

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

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