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National News

House Green Jobs Bill May Include Blumenauer Proposals Helping Geothermal Projects

Headed by Chairman Sandy Levin (D-Mich.), the House Ways and Means Committee will put together a green jobs bill over the coming weeks that would provide tax incentives for creating hundreds of thousands of green-energy jobs. The estimated \$17 billion cost is expected to be offset by repealing tax breaks for oil and gas players. Two potential measures sponsored by Rep. Earl Blumenauer (D-OR) are considered likely to be among those possible to be included in the House bill. The Blumenauer proposals would extend the tax grant program created by the stimulus bill, and extend the investment tax credit for geothermal energy. Here are some brief notes on these two measures:

H.R. 4599, the Renewable Energy Expansion Act of 2010. This legislation, sponsored by Rep. Blumenauer (D-OR), would extend the current Treasury tax grant program. "In this tough economy, having the option to receive a direct payment instead of a tax credit is critical for continued growth," GEA has stated. But, the current tax grant program which was passed as part of the stimulus legislation in 2009 only qualifies projects which commence construction by the end of 2010. As the Congressional Research Service explains, H.R. 4599 would: "Amend the Internal Revenue Code to: (1) allow taxpayers an election to receive a direct payment for investing in or producing specified energy property in lieu of existing energy tax credits; and (2) extend eligibility for such payments until January 1, 2013. "

H.R. 5612, the Geothermal Energy Investment Act. The legislation, also sponsored by Representative Blumenauer (D-OR) would extend a 30% investment tax credit for geothermal energy investments made through December 31, 2016, providing parity with the solar investment tax credit. This longer-term incentive will support substantial growth in utility scale geothermal power, distributed on-site power generation, and heating for buildings and commercial processes. "The longer time frame and broader scope of this credit would be a major shot in the arm for geothermal growth in the US," according to GEA's Executive Director, Karl Gawell.

"By harnessing [geothermal] heat we can generate clean, homegrown energy that won't spill into the oceans or exacerbate global warming," Blumenauer said in a news release. The Congressman's home state, Oregon, has 13 projects at various stages of development that together could yield 370 MW of geothermal energy.

See <http://thehill.com/blogs/on-the-money/domestic-taxes/106251-house-green-jobs-bill-already-hitting-senate-head-winds> and <http://portland.bizjournals.com/portland/stories/2010/06/28/daily14.html>.

New Senate Proposal for Clean Energy Bank Needs Improvements to Protect Taxpayers, Union of Concerned Scientists Charges

A proposal by Sens. Jeff Bingaman (D-NM) and Lisa Murkowski (R-AK) for a clean energy bank, called the Clean Energy Deployment Administration (CEDA) under the American Clean Energy Leadership Act of 2009, would promote project investment, financing, and insurance. Based on current applications, CEDA would provide \$130 billion in loan guarantees to nuclear and fossil fuel energy projects, showing a drastic imbalance of appropriations. The Union of Concerned Scientists has suggested improvements to prevent high-cost, high-risk, and unclean technologies from dominating a fund that could go toward environmentally clean energy developments.

UCS points out that under ACELA there are no effective limits on loan guarantees, allowing potentially unlimited loan guarantees to entities that can pay estimated subsidy costs up front. UCS suggests CEDA must be subject to congressional oversight in order to protect taxpayers from financial risk. CEDA must also be required to calculate subsidy costs — there is currently no requirement to reveal costs for taxpayer-backed projects.

According to UCS, CEDA must limit assistance to any one technology in order to maintain reasonable portfolio diversity — the current system is likely to favor of capital-intensive, non-renewable technologies. And finally, CEDA must prioritize support for technologies that reduce the most greenhouse gas emissions per dollar invested, according to UCS suggestions.

See http://www.ucsusa.org/nuclear_power/solutions/clean-energy-deployment-admin.html and http://www.ucsusa.org/news/press_release/senate-proposal-for-clean-energy-bank-0414.html.

Senate Moving Ahead with Climate Bill Discussions Seeking to Break Impasse

Sen. Jeff Bingaman (D-N.M.) is attempting an emissions cap that would exclusively affect the utility sector, in the latest approach to drafting passable climate legislation. This is more selective than the Kerry-Lieberman bill which would set caps on utility, manufacturing, and transportation. But Bingaman hasn't introduced it yet – "I don't want to just introduce bills in order to add to the list of bills that have been introduced," he stated.

Meanwhile Senate Majority Leader Harry Reid (D-NV) considers pairing an emissions-capping bill with one that overhauls offshore drilling rules. The move is seen as a high-risk, high-stakes approach. Sen. Bernie Sanders (I-Vt.) was optimistic. "Republicans are not supporting virtually anything to transform our energy system," he said. "That's not what the American people want. So I think you bring forth a strong bill, you rally the American people and I think the Republicans will respond as a result of that."

Meanwhile, the White House has been engaging Senators to help find a path forward for a climate or energy bill -- meaning finding a bill that could gain the necessary 60 votes in the Senate. The Bingaman measure appears to be one of several approaches that are being tested. If an energy or climate bill is found that can garner the votes to break a filibuster, it's considered very likely that other related measures, like energy tax provisions, would also be added.

The House and Senate are both now in recess for the July 4th holiday. When they return to session on July 12 the leadership will need to assess whether and how to proceed.

See <http://www.eenews.net/public/EEDaily/2010/06/29/1> and <http://www.politico.com/news/stories/0610/38999.html#ixzz0sXGNUVFz>.

How to Find Out More About Pending Congressional Legislation

Geothermal Energy Weekly carries many stories about pending congressional legislation and we are commonly asked, "How do I find out more about a bill?"

To find out more about any bill before Congress, visit the Congressional Research Service's online site: <http://thomas.loc.gov/>. This system lets you search for legislation by number or by key words. It will also allow you to search the Congressional Record to read statements and other information about pending legislation.

To identify your representative and their District and Washington phone numbers, enter your zip code + 4 at <http://www.house.gov/>. Senate offices can be reached online through the Senate web site at: <http://www.senate.gov/>. In addition, both the House and Senate web sites home pages provide links to their various Committees. Committee web sites offer a schedule of hearings and information about the actions they are taking, and many also allow online viewing of committee and subcommittee hearings.

C-Span also provides online coverage of the House and Senate floor, select committee hearings, and other DC events related to the issues before Congress. Their webcasts can be viewed at: <http://cspan.org/Watch/C-SPAN.aspx>. Finally, you can always contact your Senator or Representative through the congressional switchboard at 202-225-3121.



Company News

AMEC: Engineering Contract Signed for Hudson Ranch I Geothermal

AMEC been awarded a \$6.8 million contract by EnergySource LLC for the 49-MW Hudson Ranch I geothermal facility at Salton Sea. AMEC will handle design, engineering, training and assistance on the \$350 million project.

"This project is one of a new generation of high-temperature flash technology geothermal plants and another great addition to AMEC's portfolio of sustainable energy projects," said Tim Gelbar, President of AMEC's Power & Process Americas business.

Hudson Ranch I has been under development since 2006 and is expected to be complete by 2012. The completed project will create 35 full-time jobs.

See http://www.yourindustrynews.com/amec+awarded+contract+on+next-generation+geothermal+project+in+california_51051.html.

Ormat Technologies: BLM Approves Fast-Track Plans for 30-MW Nevada Plant

Ormat has received approval from the Bureau of Land Management to build a 30-MW geothermal plant in Pershing county under a fast-track regulatory process. The Jersey Valley project will include a first phase of 15-MW for operation by late 2010 and a second plant in 2011.

Ormat was also involved in the 49.5-MW Blue Mountain project by Nevada Geothermal Power which was approved for the fast-track process in October. Ormat's 30-MW McGinness Hills project is a candidate for approval, as are projects by Terra-Gen Power up to 186 MW.

See <http://www.businessweek.com/news/2010-06-29/ormat-wins-approval-for-30-megawatt-nevada-geothermal-plant.html>.

Raser Technologies: MOU Creates Joint Development of Renewable Energy and Electric Vehicles

Press Release, June 29 — Raser Technologies, Inc. ("Raser") (NYSE: RZ), an energy technology company, and global manufacturing giant Hyundai Heavy Industries ("HHI") announced today that the two companies have signed a Memorandum of Understanding ("MOU") for the joint development of renewable energy and electric vehicles. The agreement sets into play the first two projects that are intended to lead to a broader long-term relationship to develop renewable energy in the western U.S. utilizing Raser's resource portfolio and HHI's renewable energy equipment manufacturing capabilities. The agreement also sets forth the first phase of commercial production of electric fleet vehicles utilizing HHI's high tech engineering and manufacturing capability and Raser's powertrain technology.

HHI Chairman, Dr. K.S. Min, attended the Western Governors' Association ("WGA") annual meeting to meet with governors of western states where potential renewable energy projects will be located. The WGA annual meeting agenda calls for coordinated steps to be taken by western states to address climate adaptation, including the development of renewable energy.

"We are committed to meeting the challenges of global climate change in the two key industries that can reduce fossil fuel emissions the most, renewable energy and electric vehicles," said Dr. Min. "We selected Raser as a development partner because of their leadership in electric vehicles, and their sizable holdings of highly valuable renewable resources," concluded Min.

The "Well-to-Wheels" demonstration projects, identified in this initial MOU, consist of a 5 megawatt solar power generation project, and the production of the first 3 extended range electric trucks ("E-REV") for U.S. fleet customers.

The proposed solar power project will be built at Raser's Thermo site in southern Utah, using photovoltaic (PV) solar panels and transmission equipment manufactured by HHI. The solar power plant will be co-located with Raser's geothermal power plant to enable the demonstration of a unique new zero emissions blended renewable ("ZEBRA") development by Raser.

"When completed, the project will be the first phase in demonstrating the potential value of HHI and Raser's relationship in developing renewable energy projects on Raser's sizeable holdings where all three renewable resources, geothermal, solar and wind coexist in close proximity to existing transmission lines in a unique "Triple Play" area of Utah's renewable energy zone, where Raser holds a large property portfolio," commented Raser Executive Vice President Richard Clayton.

See <http://www.rasertech.com/uncategorized/raser-technologies-and-hyundai-heavy-industries-announce-agreement-for-joint-development-of-renewable-energy-and-electric-vehicles>.

U.S. Geothermal: Mineral Ownership Interests Acquired at Neal Hot Springs

Press Release, June 29 — U.S. Geothermal Inc., a renewable energy company focused on the development, production and sale of electricity from geothermal energy, announced today that its subsidiary, USG Oregon LLC ("USG Oregon"), has acquired two underlying geothermal mineral ownership interests at the Neal Hot Springs project in eastern Oregon.

A 25% mineral interest, which encompasses 600 acres, was purchased from a private estate. An option to purchase an additional 25% interest in 2,110 acres was executed with GCO Minerals Company, a subsidiary of International Paper. The two mineral interest acquisitions in part overlap each other, and when combined provide USG Oregon with 600 acres of 50% mineral ownership and 1,510 acres of 25% mineral ownership in the heart of the defined Neal Hot Springs geothermal reservoir. This acreage includes the two existing production wells, and all of the currently planned new production and injection wells for the 22 megawatt development.

Daniel Kunz, President and CEO of U.S. Geothermal Inc. said, "We can either lease the energy rights by paying a royalty each year or we can own them outright and reduce the annual royalty burden. With the acquisition of these two mineral interests the Neal Hot Springs project will have increased annual cash flows."

See http://www.marketwatch.com/story/us-geothermal-acquires-mineral-ownership-interests-at-neal-hot-springs-project-2010-06-29?reflink=MW_news_stmp.



Renewable Energy and Climate Change

State RPS Policies Will Drive 250% Increase in Renewable Power Generation by 2025

According to a new market study, "US RPS Markets and Utility Strategies: 2010-2025," cumulative renewables demand across all states with binding Renewable Portfolio Standard policies will grow from an expected 137 TWh in 2010 to 479 TWh by 2025--an increase of approximately 250% by 2025. As of June 2010, mandatory RPS policies have been passed in 31 US states and the District of Columbia, with six additional states approving conditional or non-mandatory renewables goals. RPS policies are estimated to require more than 1,000 investor-owned utilities, load-serving entities and competitive retail suppliers to procure renewable power over the next decade. While utilities in a few states, led by Washington, Maine, Colorado and New Hampshire, are already well on their way toward meeting their 2015 RPS targets, the majority of states will require rapid renewables growth if they are to meet near-term objectives. The US renewables market has experienced explosive growth since 2005, expanding from a total installed base of 30 GW to over 60 GW at the end of 2009.

See <http://www.emerging-energy.com/content/press-details/State-RPS-Policies-Will-Drive-250-Increase-in-Renewable-Energy-Generation-by-2025/32.aspx>.

U.S. Treasury Issues Revised Guidance for Stimulus Bill Section 1603 Cash Grant Program

The Treasury Department issued revised guidance for applicants under Section 1603 of the stimulus bill (ARRA) seeking cash grants in lieu of tax credits. The new guidance specifically addresses questions related to the "beginning of construction" for a project to qualify.

You can view details on the program and their new guidance at: <http://www.ustreas.gov/recovery/1603.shtml>



State News

California: Bid to Suspend Global Warming Law Qualifies for November Ballot

From EESI Climate Change News — On June 23, California Secretary of State Debra Bowen certified a proposition to suspend the state's *Global Warming Solutions Act* (AB 32) for the November ballot. Called the "California Jobs Initiative," the proposition "requires the state to abandon implementation of comprehensive greenhouse gas reduction program that includes increased renewable energy and cleaner fuel requirements, and mandatory emission reporting and fee requirements for major polluters such as power plants and oil refineries, until suspension is lifted." The suspension of AB 32 would not be lifted until the state unemployment rate drops from 12.4 percent to 5.5 percent for four successive quarters. In addition to reducing jobs, "AB 32 would impose billions of dollars in higher utility rates and fuel prices on California families when they can least afford it," said Jon Coupal, president of the Howard Jarvis Taxpayers Association. Proponents of AB 32 have said the measure will decrease the growth of green jobs that would occur as a byproduct of AB 32. "This initiative sponsored by greedy Texas oil companies would cripple California's fastest growing economic sector, reverse our renewable energy policy and decimate our environmental progress for the benefit of these oil companies' profit margins," said Governor Arnold Schwarzenegger.

For additional information see: [Los Angeles Times](#), [San Francisco Chronicle](#), [Fresno Bee](#)

California: Legislature and Schwarzenegger Move Closer to Agreement on Renewable Electricity Standard

July 2, 2010. Since 2007, state Sen. Joe Simitian (D- Palo Alto) has been introducing bills aimed at requiring [California](#) to get 33% of its power from renewable sources such as geothermal, solar and wind power by 2020. In 2008 his bill passed the State Senate, only to stall in the Assembly. Last year legislation passed the Legislature but was vetoed by Gov. Arnold Schwarzenegger. In late June, [SB 722](#) -a new version of a "33% by 2020" renewable electricity procurement mandate was approved by the Assembly Utilities and Commerce Committee, clearing the way for legislation to once again reach the Governor's desk before the end of the 2010 session in August.

A 2006 law accelerated the "renewable portfolio standard" (RPS) deadline of achieving 20% renewable energy procurement for California's independently owned utilities to 2010. Nearly eight years after the RPS was enacted, California's IOU's have advanced beyond their 2002 average starting point of 12 percent RPS, but are not on pace to achieve 20 percent by the end of this year, and intend to rely on flexible compliance rules to delay attainment of 20 percent until 2013. According to the California Public Utilities Commission, in 2009, the IOUs served 15.4 percent of their load with renewable energy, up from 13 percent in 2008.

After vetoing Simitian's bill last year, Governor Schwarzenegger issued an [executive order](#) imposing the same 33% mandate, and instructing the California Air Resources Board (CARB) to enact the mandate through regulation. CARB has been diligently working on the regulations since last fall, and is poised to adopt a Renewable Electricity Standard (RES) this month. At issue is the strength of the underlying legal authority for CARB to adopt the standard. The 2009 executive order for the RES relied on AB 32 (The California Global Warming Solutions of 2006) as the basis for the regulations. Without a clear statutory RES directive in place, the Governor linked the achievement of the state's ambitious greenhouse gas reduction goals to the necessity of boosting renewable energy production.

With the qualification of [Proposition 23](#) on the November ballot which would effectively suspend AB 32, the Governor [issued a statement](#) this week signaling his interest in SB 722 if certain conditions can be met. As Schwarzenegger said in his statement,

"I applaud the legislature for moving forward on codifying a change in our Renewable Portfolio Standard to 33 percent. I vetoed SB 14 last year because of the negative impact it would have had on California's energy markets and ratepayers. However, while SB 722 makes progress in addressing those concerns, there are still a number of critical issues that must be addressed before I can sign this bill.

"We must ensure we have the correct mix of in-state and out-of-state resources for a healthy and competitive regional energy market. To meet the 33 percent standard, the legislation must include streamlining our siting and permitting processes for both California renewable generation projects and the transmission lines needed to deliver that energy throughout the state. I cannot sign legislation mandating a higher requirement without ensuring that the necessary projects can be built."

Tying passage of SB 722 to permit streamlining for project and transmission line developments is sure to be controversial, and the Governor and the Legislature have the next two months to work out the details of this pending compromise. For more information on SB 722 and California's renewable electricity mandates, please contact John McCaull, GEA's Western States Representative at john@geo-energy.org.



International News

Argentina: G4G Will Not Proceed with Proposed Geothermal Acquisitions

G4G Resources will not proceed with a proposed acquisition for interest in the Valle del Cura, Tuzgle, and Tocomar geothermal projects. G4G has notified the vendor that the proposal, originally announced in February of this year failed to receive required approvals.

See http://www.marketwatch.com/story/g4g-resources-ltd-not-proceeding-with-acquisition-of-geothermal-projects-2010-06-30?reflink=MW_news_stmp.

Australia: AGEA Opens Branch in Victoria

Victorian Minister for Energy and Resources Peter Batchelor has launched a Victorian chapter of the Australian Geothermal Energy Association (AGEA) to will expand efforts to help the industry grow and help the community better understand the industry. Mark Miller, AGEA executive committee member and Managing Director of Greenearth Energy will convene the new branch.

See http://ecogeneration.com.au/news/ager_sets_up_shop_in_victoria/041740/.

Australia: Funding for the University of Newcastle will Aid Geothermal Research

The University of Newcastle has received \$30 million from the Federal Government to establish its Institute for Energy & Resources. One of the goals of the institute is to help transform the geothermal sector through research.

"Over 260 jobs will be created during the refurbishment of the existing centre and the construction of a new specialist facility," Federal Member for Newcastle, Sharon Grierson MP said in a statement.

See

<http://minister.innovation.gov.au/Carr/Pages/30MFORNEWCASTLEINSTITUTEFORENERGYANDRESOURCES.aspx>.

Australia: Green Rock Energy and Cygnet Capital to Raise A\$2.65 Million

Press Release, June 29 — Green Rock Energy Ltd., the Perth-based geothermal power company, has signed an agreement with Cygnet Capital to raise A\$2.65 million (\$2.29 million).

Cygnet will lead a placement of 70 million ordinary shares to raise a total of A\$1.05 million at 1.5 Australian cents per share split across two tranches and will underwrite a non-renounceable rights offer of shares to investors on a one-for-three basis at 1.5 Australian cents per share to raise approximately A\$1.6 million, the company said in a statement.

Cygnet will be granted 25 million options, exercisable at 2 Australian cents per share, expiring on 30 June, 2013, on completion of the rights issue as part of its fee structure. All capital raised by Cygnet will attract a 6% capital raising fee.

See <http://www.bloomberg.com/news/2010-06-29/green-rock-energy-agrees-with-cygnet-capital-to-raise-a-2-65-million.html>.

Iceland: 50-MW Expansion Receives Turbine and Drilling Update

Press Release, July 2 — Magma Energy Corp. (TSX: MXY) is pleased to provide an update at its 46.18% owned HS Orka's operations in Iceland. Magma expects to increase its stake in HS Orka to 98.53% by the end of July.

HS Orka recently took possession of a 50 MW Fuji Electric turbine generator for its Reykjanes power plant which currently produces 100 MW from twin Fuji units. HS Orka plans to expand Reykjanes output to 180 MW in 2 phases pending permitting and new power purchase agreements with power off-takers. A 50 MW (phase 1 expansion) is expected to come on-line in 2012. More than 15 MW of steam has already been drilled for this expansion project. An additional 30 MW phase (to bring output to 180MW) is scheduled for 2013 and requires no additional drilling as the feedstock is low pressure steam generated from current operations. In addition to these expansion projects, plans to develop additional resources to increase total production to 405 MW by 2016 is underway.

Drilling for additional power plant expansion capacity is underway. Well REY-29 is currently at a depth approaching 3,000 meters and has encountered temperatures exceeding 315 degrees C. Initially, this well was targeted to be a field reinjection well and was drilled at the edge of the known geothermal reservoir. It now appears that a new geothermal production area has been discovered adjacent to the 100 MW Reykjanes plant. Testing of the well will continue over the next several weeks and a reservoir estimate will be prepared for this potential resource.

The budget for the 50-MW expansion is \$116 million, of which \$32 million has already been spent as of May 31. The remaining cost for the expansion is expected to be funded from HS Orka's cash on hand and by debt financing.

Asgeir Margeirsson, Magma Iceland's CEO commented, "The teams at Magma Iceland and HS Orka are working well together on planning the new power projects in front of us. We are excited to see the new turbine at Reykjanes and very pleased with the encouraging results from our latest well."

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

Japan: Ormat Secures Japanese Partner for Geothermal Development

Press Release, June 28 — Ormat Technologies, Inc. (NYSE: ORA) announced today that its subsidiary Ormat International, Inc., ("Ormat") and JFE Engineering Corporation ("JFEE"), a subsidiary of JFE Holdings, Inc. of Japan, have executed a Cooperation Agreement for implementing geothermal power plant projects in Japan on an Engineering Procurement and Construction ("EPC") basis utilizing Ormat's proprietary binary cycle ORMAT® Energy Converters ("OEC") and Geothermal Combined Cycle Units.

Ormat shall supply the power generation equipment and related engineering while JFEE shall undertake the construction of the power plants and the related balance of plant, infrastructure and field surface facilities. JFEE shall also provide local maintenance services as may be required by clients.

The first commercial binary power plant in Japan was the Ormat 2 MW OEC supplied to the Kyushu geothermal facility at Hatchobaru. The Ministry of Economy, Trade and Industry of Japan announced plans to implement policies to stimulate growth in the country's geothermal installed capacity in the next 10 years, by an additional 670 MW. Geothermal energy is part of Japan's Renewable Portfolio Standard. The Company believes that a significant part of this potential is suited to Ormat's technology.

Ormat is represented in Japan by Itochu Corporation. Itochu and Ormat are partners in geothermal projects in Indonesia and were partners in a geothermal BOT project in the Philippines.

Lucien Bronicki, Chairman and Chief Technology Officer of Ormat Technologies, stated, "We expect that the synergy brought about by this cooperation with JFEE and the ongoing support of Itochu Corporation shall significantly enhance our ability to provide a 'full service' capability for our equipment and technology in Japan, and thereby assist us to participate in a meaningful way in the anticipated expansion of the Japanese geothermal industry."

See <http://www.ormat.com/news>.



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



Notices

Added this Week:

GTP FOA Update: Request to Submit Notice of Intent for Applicants Added (July 9)

The U.S. Department of Energy's (DOE) Geothermal Technologies Program (GTP) released a Funding Opportunity Announcement (FOA) that will be closed to applications on **July 9, 2010**. This FOA seeks innovative demonstration of energy production from non-conventional geothermal resources.

The FOA has recently been updated to include a request for applicants to submit a Notice of Intent via e-mail to go.geothermal@go.doe.gov. Please see this and other minor modifications to the FOA at Grants.gov or the Low Temperature Web Page: http://www1.eere.energy.gov/geothermal/low_temperature_resources.html. Additionally, GTP has also posted updated guidance that may be useful for prospective applicants on the Low-Temperature Web page.

GTP's continued efforts with industry, academia, and DOE's national laboratories to develop innovative geothermal energy technologies will establish geothermal energy as an economically competitive contributor to the U.S. energy supply.

Current Notices

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.

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SMU Geothermal Lab Coordinator
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<http://smu.edu/geothermal>

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.groupsites.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.

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.



Employment

Employment Opportunities

Vice President Geology, Western US

Vice President Geology needed for a geothermal energy technology company located in the Western US. This position will be responsible for developing, implementing, and directing exploration and development programs of the company's geothermal resources. The individual will ensure continual growth of economic reserves for the company.

Qualifications:

- Must have geothermal experience. A minimum of 15 years experience in exploration, well site analysis, drilling, reservoir evaluation or related fields is necessary.
- A background in organizing and managing effective resource exploration and development programs is required. Experience with greenfield projects is desired, as is a broad based perspective of the geothermal industry.

Please send resumes to Bstevens@stmassociates.com

Geothermal Openings, NREL, Boulder, CO

The National Renewable Energy Laboratory (NREL) currently has job openings in Boulder, CO for geothermal positions: Geothermal Analyst, Senior Geothermal Analyst, Energy Project Analyst, Laboratory Program Manager, and Senior Geothermal Systems Engineer.

"We need scientists, research technicians, engineers, analysts, managers and project leaders, administrators, communicators, along with people who work in information technology, security, facilities, and clerical/administrative support. As a member of the NREL team, you will be involved in a growing, dynamic national laboratory that is developing new energy technologies to benefit our environment and economy."

Go to http://www.nrel.gov/employment/job_openings.html and search "geothermal"

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

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 PhD. 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.hrlogix.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.

Contact Lori Rinkert, Sr Recruiter, MidAmerican Energy at 515-281-2707 or lsrinkert@midamerican.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

Closing This Week

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)

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)

***Updated: 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

***Update: Request for Submission of Notice of Intent for Applicants Added**

The U.S. Department of Energy's (DOE) Geothermal Technologies Program (GTP) released a Funding Opportunity Announcement (FOA) that will be closed to applications on July 9, 2010. This FOA seeks innovative demonstration of energy production from non-conventional geothermal resources.

The FOA has recently been updated to include a request for applicants to submit a Notice of Intent via e-mail to go.geothermal@go.doe.gov. Please see this and other minor modifications to the FOA at Grants.gov or the GTP Low-Temperature Web page. Additionally, GTP has also posted updated guidance that may be useful for prospective applicants on the Low-Temperature Web page.

GTP's continued efforts with industry, academia, and DOE's national laboratories to develop innovative geothermal energy technologies will establish geothermal energy as an economically competitive contributor to the U.S. energy supply.

RFP Announcements

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

CleanTX Forum, Austin, TX (July 14)

When:

Wednesday, July 14th, 2010

5:30-6:30 Registration, Networking, and Product Demonstrations

6:30-8:30 Panel Discussion

Where:

West Pickle Research Center (formerly MCC Building)

3925 West Braker Lane, Austin, Texas 78759

Moderator:

Maria Richards, SMU Geothermal lab Coordinator, Huffington Department of Earth Sciences

Speakers:

Bruce Cutright, Bureau of Economic Geology, Jackson School of Geosciences, University of Texas at Austin

Michael Ronzello, Business Development Manager, Pratt & Whitney Power Systems

Robin Dahlheim, Gulf Coast Green Energy

Steven Erdahl, GreenTech Renewables, LLC

Martin Kay, Texatherm Energy

Peter Gross, President, GeoPower Texas

[View Speaker Bios](#)

Cost:

\$20 for pre-registration

\$30 for late-registration

[Register Here](#)

Geothermal Energy Expo Sponsorship Opportunities

Sponsorship Opportunities – contact Kathy Kent at kathy@geo-energy.org

Water Sponsor - \$3,500 (Exclusive)

SOLD: TNG Energy Services

Benefits:

- Sponsor logo placement on water station and Eco Sports Bottle to be given out to Expo attendees
- Recognition on GEA/GRC site
- Recognition on signage on Expo Hall

Exhibition Aisle Signs – 1/ Aisle Section - \$1,000 (Limit 8)

Benefits:

- Logo on aisle sign
- Proportional logo on event guides

Geo-Cyber Area Sponsorship - \$5,000 (Exclusive)

SOLD: Geothermal Resource Group

Benefits:

- 20 x 20 space with two desktop computers with internet connection and printer in 2010 Expo Hall

- Offers the opportunity for technical and management professionals from around the world to come together and networking/round tables and chairs
- Company logo on signage of the "Cyber Space"
- Company's website set to default for all computer screen savers
- Recognition on signage on Expo Hall

Expo Triangular Eco-Highlighters - \$2,500 (Exclusive)

Benefits:

- Company name and logo on Expo Hall pens given out with attendee bag
- Sponsor receives recognition on GEA website and on Expo Guide

Expo Eco-Pens - \$2,000 (Exclusive)

Benefits:

- Company name and logo on Expo Hall pens given out with attendee bag
- Sponsor receives recognition on GEA website and on Expo Guide

GRC Annual Meeting and GEA Geothermal Energy Expo® Mutual Sponsorships 2010

Sponsorship Opportunities – contact Kathy Kent at kathy@geo-energy.org

Platinum Level - \$30,000 (Limited to maximum of 5 sponsors)

SOLD: Halliburton

Benefits:

- Sponsorship of Opening Reception, Sunday evening, October 24, 2010
- Formal acknowledgement at Opening Reception, Sunday evening, October 24, 2010
- (1) 10'x20' booth space within Expo
- (3) complimentary full conference passes
- Prominent display of name/logo on event guides
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A full page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Gold Level - \$15,000 (Limit 5)

Benefits:

- (1) 10'x10' booth space within Expo
- (2) complimentary full conference passes
- Prominent display of name/logo on event guides
- Formal acknowledgement at Opening Reception
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A half page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Silver Level - \$7,500 (Unlimited)

SOLD: City of Reno

Benefits:

- Proportional logo on event guides
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A quarter page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Breaks

Afternoon Coffee and Sweets, Monday - \$5,000 (Exclusive)

SOLD: The Shaw Group

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall

- Proportional logo on event guides
- Recognition on GEA website

Morning Coffee, Tuesday - \$2,500 (Exclusive)

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Afternoon Coffee and Sweets, Tuesday - \$5,000

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Morning Coffee, Wednesday - \$2,500

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Variety Items

Neck Wallets - \$10,000 (Exclusive)

SOLD: Calpine Corporation

Benefits:

- One color sponsor logo placement on 2010 neck wallets to be worn by all attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site
- Recognition on signage on Expo Hall

Annual Meeting and Expo Delegate Bags - \$15,000 (Exclusive)

Benefits:

- One color sponsor logo placement on bags to be given out to all of the 2010 attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site
- Company literature inserted into attendee bags
- Recognition on signage in Expo Hall

Upcoming 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 Annual Members Meeting and Policy Workshop, Sacramento, CA (October 23)

On Saturday, October 23rd from noon to 5pm, GEA will hold its "Annual GEA Member's Meeting and Policy Workshop" at the Hyatt Regency in room C. As part of the Member's Meeting, GEA staff will present successes, activities, and direction for 2010 and beyond and open floor to member discussion. As part of the Policy Workshop, keynote speakers from federal and state government will provide expert presentations on the latest regulatory and legislative developments and discuss trends shaping politics in Washington, DC and state capitols. Pulling the two parts of the meeting together will be a discussion of what it will take to sustain long-term growth in the geothermal industry. There is no admission charge for GEA Members and 2010 Geothermal Energy Expo exhibitors. The meeting is also open to the GRC members and others on a space available basis. For more information contact Kathy Kent kathy@geo-energy.org or Karl Gawell karl@geo-energy.org.

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/>

Fifth Renewable Energy Fair, Chena Hot Springs, Alaska (August 15)

www.chenahotsprings.com or www.chenapower.com

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

Canadian Geothermal Energy Association

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

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

Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana)

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

Australian Geothermal Energy Conference, SA, Australia (November 16–19)

Australian Geothermal Energy Association

<http://www.ausgeothermal.com/>

POWER-Gen International, Orlando, FL (December 14–16)

<http://www.power-gen.com/index.html>

Renewable Energy World North America 2011, Tampa, FL (March 8–10, 2011)

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

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

<http://smu.edu/geothermal/>

GEOHERMAL ENERGY WEEKLY

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

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