



# Geothermal Energy Weekly

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Geothermal Energy Association

~formerly the GEA Weekly Update~

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



## **National News**

### **Senate Votes Down Murkowski's EPA Disapproval Resolution**

On June 10, the Senate voted against Sen. Lisa Murkowski's disapproval resolution which would have prevented the Environmental Protection Agency's stewardship over regulation of climate issues. The resolution lost 47-53, with all Republicans and six Democrats voting in favor of it. The effort would have overturned U.S. EPA's scientific findings that carbon emissions endanger human health. In his remarks to the Senate on June 7, Senate Majority Leader Harry Reid said, "the result of this resolution would be to waste at least 450 million more barrels of oil than we need to."

"I had hopes, for the security of our economy, that we would prevail today," Murkowski said in a statement. "But regardless of the outcome, I believe it's important that every member of the Senate is on the record on whether they think the EPA regulation is the appropriate way to address climate issues." Murkowski said EPA regulation of greenhouse gases would cause an "economic train wreck."

Here is how the Senators voted on the "motion to proceed" to Senator Murkowski's resolution:

Akaka (D-HI), **Nay**  
 Alexander (R-TN), **Yea**  
 Barrasso (R-WY), **Yea**  
 Baucus (D-MT), **Nay**  
 Bayh (D-IN), **Yea**  
 Begich (D-AK), **Nay**  
 Bennet (D-CO), **Nay**  
 Bennett (R-UT), **Yea**  
 Bingaman (D-NM), **Nay**  
 Bond (R-MO), **Yea**  
 Boxer (D-CA), **Nay**  
 Brown (D-OH), **Nay**  
 Brown (R-MA), **Yea**  
 Brownback (R-KS), **Yea**  
 Bunning (R-KY), **Yea**  
 Burr (R-NC), **Yea**  
 Burris (D-IL), **Nay**  
 Byrd (D-WV), **Nay**  
 Cantwell (D-WA), **Nay**  
 Cardin (D-MD), **Nay**  
 Carper (D-DE), **Nay**  
 Casey (D-PA), **Nay**  
 Chambliss (R-GA), **Yea**  
 Coburn (R-OK), **Yea**  
 Cochran (R-MS), **Yea**  
 Collins (R-ME), **Yea**  
 Conrad (D-ND), **Nay**  
 Corker (R-TN), **Yea**  
 Cornyn (R-TX), **Yea**  
 Crapo (R-ID), **Yea**  
 DeMint (R-SC), **Yea**  
 Dodd (D-CT), **Nay**  
 Dorgan (D-ND), **Nay**  
 Durbin (D-IL), **Nay**

Ensign (R-NV), **Yea**  
 Enzi (R-WY), **Yea**  
 Feingold (D-WI), **Nay**  
 Feinstein (D-CA), **Nay**  
 Franken (D-MN), **Nay**  
 Gillibrand (D-NY), **Nay**  
 Graham (R-SC), **Yea**  
 Grassley (R-IA), **Yea**  
 Gregg (R-NH), **Yea**  
 Hagan (D-NC), **Nay**  
 Harkin (D-IA), **Nay**  
 Hatch (R-UT), **Yea**  
 Hutchison (R-TX), **Yea**  
 Inhofe (R-OK), **Yea**  
 Inouye (D-HI), **Nay**  
 Isakson (R-GA), **Yea**  
 Johanns (R-NE), **Yea**  
 Johnson (D-SD), **Nay**  
 Kaufman (D-DE), **Nay**  
 Kerry (D-MA), **Nay**  
 Klobuchar (D-MN), **Nay**  
 Kohl (D-WI), **Nay**  
 Kyl (R-AZ), **Yea**  
 Landrieu (D-LA), **Yea**  
 Lautenberg (D-NJ), **Nay**  
 Leahy (D-VT), **Nay**  
 LeMieux (R-FL), **Yea**  
 Levin (D-MI), **Nay**  
 Lieberman (ID-CT), **Nay**  
 Lincoln (D-AR), **Yea**  
 Lugar (R-IN), **Yea**  
 McCain (R-AZ), **Yea**  
 McCaskill (D-MO), **Nay**  
 McConnell (R-KY), **Yea**

Menendez (D-NJ), **Nay**  
 Merkley (D-OR), **Nay**  
 Mikulski (D-MD), **Nay**  
 Murkowski (R-AK), **Yea**  
 Murray (D-WA), **Nay**  
 Nelson (D-FL), **Nay**  
 Nelson (D-NE), **Yea**  
 Pryor (D-AR), **Yea**  
 Reed (D-RI), **Nay**  
 Reid (D-NV), **Nay**  
 Risch (R-ID), **Yea**  
 Roberts (R-KS), **Yea**  
 Rockefeller (D-WV), **Yea**  
 Sanders (I-VT), **Nay**  
 Schumer (D-NY), **Nay**  
 Sessions (R-AL), **Yea**  
 Shaheen (D-NH), **Nay**  
 Shelby (R-AL), **Yea**  
 Snowe (R-ME), **Yea**  
 Specter (D-PA), **Nay**  
 Stabenow (D-MI), **Nay**  
 Tester (D-MT), **Nay**  
 Thune (R-SD), **Yea**  
 Udall (D-CO), **Nay**  
 Udall (D-NM), **Nay**  
 Vitter (R-LA), **Yea**  
 Voinovich (R-OH), **Yea**  
 Warner (D-VA), **Nay**  
 Webb (D-VA), **Nay**  
 Whitehouse (D-RI), **Nay**  
 Wicker (R-MS), **Yea**  
 Wyden (D-OR), **Nay**

See <http://www.nytimes.com/cwire/2010/06/11/11climatewire-effort-to-block-epa-fails-revealing-murky-pa-31482.html> and [http://murkowski.senate.gov/public/index.cfm?p=PressReleases&ContentRecord\\_id=00a8c969-13ab-405f-8430-e4b627cf61f3&ContentType\\_id=b94acc28-404a-4fc6-b143-a9e15bf92da4&Group\\_id=c01df158-d935-4d7a-895d-f694ddf41624&MonthDisplay=6&YearDisplay=2010](http://murkowski.senate.gov/public/index.cfm?p=PressReleases&ContentRecord_id=00a8c969-13ab-405f-8430-e4b627cf61f3&ContentType_id=b94acc28-404a-4fc6-b143-a9e15bf92da4&Group_id=c01df158-d935-4d7a-895d-f694ddf41624&MonthDisplay=6&YearDisplay=2010).

## Reid Opens Senate Work Period with Plans for Jobs, Security, Energy

Senate Majority Leader Harry Reid addressed his Senate this week on his agenda for action for the summertime work period – July 12 through the August recess.

Reid spoke on passing an emergency extension on expired unemployment benefits which also cuts taxes for middle class families and small businesses. "It's something Republicans and Democrats should come together to finish because it's something we can all be proud to support. More than that, it's something each of our states desperately needs," he said.

Small businesses have a bill on the table for more tax incentives and a new lending facility, the supplemental war appropriations bill would supply the "largest operation since the war [in Afghanistan] began," and Reid hopes to send the Wall Street reform bill to the White House this month.

Regarding energy policy, Reid said: "[It] must strongly encourage companies to invest rapidly in technologies that make us safer, more competitive and more energy independent. That means immediately refocusing our efforts on clean and renewable energy – like the sun, the wind and geothermal energy – improving energy efficiency and using more biofuels."

Under Reid's order, eight Democratic committee leaders will produce their ideas on the Gulf of Mexico oil spill so they can be folded into the comprehensive energy legislation. "This spill underscores our need for a new energy policy," Reid said.

For Reid's full statement, visit <http://www.freerepublic.com/focus/f-news/2529767/posts>. See also <http://www.eenews.net/EEDaily/2010/06/07/4/>.

## Associations' Letter Urges Quick Senate Action on Energy Legislation

As Congress and the White House debate whether and when to take action on energy/climate legislation, the major efficiency and renewable energy trade associations joined together to issue a joint letter to the Senate Leadership urging quick action on energy legislation. The letter said:

Dear Senators Reid and McConnell:

We are writing to 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 Ted Michaels, President  
Biomass Power Association Energy Recovery Council  
Karl Gawell, Executive Director Tom Buis, CEO  
Geothermal Energy Association Growth Energy  
Linda Church Ciocci, Executive Director Rhone Resch, President & CEO  
National Hydropower Association Solar Energy Industries Association

## **Cantwell Amendment Vote Expected in Senate Next Week; GEA Signs Letter of Support**

As the House and Senate continue to work on a "tax extenders bill," Senator Maria Cantwell (D-Wash.) is proposing an amendment that would extend the Section 1603 Treasury Grant Program included in the stimulus bill for another two years. Under the provision, companies qualifying for the renewable tax credit can obtain a cash grant in lieu of the credit, which was intended to spur renewable project development despite the economic recession. However, that provision requires projects to be under construction by the end of this year to qualify for the special cash grant.

Senator Cantwell's amendment would expand the provision to include public power entities, and extend the deadline for the program by two additional years. The Senate is expected to return to the tax extenders bill next week.

The amendment is expected to be acted on by the Senate as it completes consideration of the tax extenders bill. GEA signed a joint letter of support along with other renewable energy trade associations, as follows:

Dear Senators Reid, McConnell, Baucus and Grassley:

The nation remains focused on the need to address urgent economic challenges, including the immediate need to maintain and generate jobs. America's renewable energy industries have been a source of growth amidst the economic recession and can continue to create well-paying American jobs with your support of a crucial policy: the extension of the Section 1603 Treasury Grant Program (TGP). As leaders of America's renewable energy trade associations, we urge you to support Senator Maria Cantwell's proposed amendment to extend the Section 1603 Treasury Grant Program as part of the tax extenders bill that is expected to be considered by the Senate this week.

Section 1603 of the ARRA authorizes the Department of Treasury to issue grants to renewable energy facilities that would otherwise qualify for the investment tax credit that start construction in 2009 or 2010. This program has been extremely successful in both deploying renewable energy projects and creating jobs quickly. Two independent studies released in recent months confirm the number of jobs created from the TGP, and project further growth of well-paying American jobs with a 2 year extension of the program.

- The Lawrence Berkeley National Laboratory report from April 2010 found the TGP created over 55,000 jobs in the wind and geothermal industries alone;
- EuPD Research released a study finding that the TGP supported 17,000 US solar jobs in 2009;
- The same report forecasts the creation of 65,000 additional new jobs by 2015 in the solar and supporting industries across the US should the TGP be extended by two years.

These studies show the TGP has been successful and put tens of thousands of Americans to work. The Cantwell amendment would extend the start construction date to December 31, 2012, similar to provisions in Senator Diane Feinstein's bill, S. 2899, the "Renewable Energy Incentives Act." The enactment of Senator Cantwell's amendment would continue the growth in America's renewable energy industries, creating jobs and clean energy nationwide.

Large utility-scale renewable energy projects can take more than six months to arrange financing. Projects that cannot be certain about meeting the December 31st commence construction date are losing financing now. The certainty of an extension is necessary if we are going to realize all of the renewable energy projects currently in the pipeline.

We thank you for your consideration and ask for your support of the Cantwell amendment to extend and expand the TGP as part of the tax extenders bill.

Sincerely,

Denise A. Bode, Chief Executive Officer, American Wind Energy Association

Karl Gawell, Executive Director, Geothermal Energy Association

Linda Church Ciocci, Executive Director, National Hydropower Association

Rhone Resch, President and CEO, Solar Energy Industries Association



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## **Company News**

### **AltaRock Energy and Davenport Newberry: EGS Demonstration Planned for Oregon**

Press Release, June 8 — AltaRock Energy, a renewable energy development company focused on the research and development of Enhanced Geothermal Systems (EGS), and Davenport Newberry, which specializes in the development and management of geothermal opportunities, announced plans today to conduct a demonstration of EGS technology as part of the U.S. Department of Energy's Geothermal Technology Program at a site located near Bend, Oregon.

The purpose of this project is to create geothermal reservoirs and extract heat from the earth in locations where high temperatures can be reached by conventional drilling techniques - in an effort to advance geothermal energy's promise and potential in the U.S.

The demonstration will take place on an existing Federal lease located outside the Newberry National Volcanic Monument, about 30 miles south of Bend. Leases located outside the Monument boundary were designated for geothermal use by a committee that included representatives of the community, environmental groups, government and the geothermal industry. This committee helped draft the legislation that was adopted in the Congressional process that established the Newberry National Volcanic Monument and adjacent geothermal leases.

Funded by a recent \$21.45 million American Reinvestment and Recovery Act grant through the U.S. Department of Energy and \$22.36 million from the AltaRock-Davenport partnership, the project will also benefit from the research efforts of faculty and students at the University of Oregon, University of Utah, Lawrence Berkeley National Laboratory, Texas A&M, Temple University, and scientists from the U.S. Geological Survey.

For more, see <http://www.prnewswire.com/news-releases/altarock-energy-and-davenport-newberry-to-demonstrate-innovative-geothermal-technology-95903959.html>. For further details and additional background about the project, please go to <http://www.newberrygeothermal.com/QandA>.

### **Atlas Copco: Company Remains on Global 100 List of World's Most Sustainable Companies**

Press Release — For the fifth consecutive year, Atlas Copco has been named one of the world's most sustainable companies.

The Global 100 list of the world's most sustainable corporations was announced at the World Economic Forum in Davos, Switzerland, this week. This year's list includes companies from 24 countries encompassing all sectors of the economy. Since the 2009 ranking, only 50% of listed companies remained on the Global 100.

In addition to social indicators such as diversity of board directors, the 2010 Global 100 established and measured companies against an objective 'sustainable path' standard for energy, carbon, water, and waste ratios.

The ambition is to show investors which companies stand out from their peers in terms of sustainability, helping them to attract capital.

"We believe the sustainable development of Atlas Copco will benefit all our stakeholders," says Annika Berglund, Senior Vice President Corporate Communications. "When we say we are committed to sustainable productivity, it means that we do everything we can to ensure reliable, lasting results with a responsible use of resources; human, natural, and capital."

See <http://www.global100.org/>.

### **U.S. Geothermal Inc.: DOE Offers Conditional \$102.2 Million for Neal Hot Springs**

The Geothermal Energy Association congratulates US Geothermal on receiving a \$102.2 million conditional loan guarantee to build a 22-MW power plant at Neal Hot Springs in Oregon. The Section 1703 loan program ensures geothermal development financing during an incredibly challenging credit market. We implore the Department of Energy to extend the Section 1703 loan guarantees to the many other deserving applicants who have sought them, as well as to those who applied for last year's Section 1705 loans, for which no geothermal projects have yet been processed.

However, the clock is ticking. Section 1705 requires projects to begin construction by Sept 30, 2011, meaning the loan guarantee program may expire before DOE fulfills the pending applications. Geothermal power has been a major growth industry over the past several years; bringing to the U.S. new renewable energy projects and the jobs that come with it. Making more of these loan guarantees available will keep our industry on the path to providing the nation a clean, renewable and reliable baseload power source.

In a June 10 press release, U.S. Geothermal said: "The Neal Hot Springs development project is the first geothermal project to be offered a conditional commitment for a loan guarantee under DOE's Title XVII loan guarantee program, which was created by the Energy Policy Act of 2005 to support the deployment of innovative clean energy technologies. Issuance of the loan guarantee is subject to the satisfaction of certain conditions precedent. Once issued, the loan guarantee will guarantee the loan to the Neal Hot Springs project from the U.S. Treasury's Federal Financing Bank."

In the statement, Idaho Governor C.L. "Butch" Otter said the Department of Energy's support of U.S. Geothermal's largest project undertaking yet goes to the heart of the 60-year relationship between the agency and the State of Idaho, home to the Idaho National Laboratory since 1949. "Advanced thinking and unsurpassed commitment have formed the bond between the Department of Energy and Idaho for more than six decades, and it has created this critical new opportunity to inject clean, renewable baseload energy into our region's power grid," Gov. Otter said. "We couldn't be prouder of our partners at U.S. Geothermal. They've shown once again the quality of their global leadership in renewable energy."

Idaho Power Company, has signed a 25-year power purchase agreement for up to 25 MW of power per year, beginning in 2012 with the flat energy price of \$96 per MW hour.

For more, see [http://www.marketwatch.com/story/us-geothermal-inc-offered-conditional-commitment-of-1022-million-loan-guarantee-for-construction-of-neal-hot-springs-2010-06-10?reflink=MW\\_news\\_stmp](http://www.marketwatch.com/story/us-geothermal-inc-offered-conditional-commitment-of-1022-million-loan-guarantee-for-construction-of-neal-hot-springs-2010-06-10?reflink=MW_news_stmp).



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## **Renewable Energy and Climate Change**

### **Poll Finds Americans Want Real Energy Reforms in Wake of Gulf Coast Disaster**

From Sustainable Energy Coalition/SUN DAY Campaign: A new poll by the Benenson Strategy Group found that the Gulf of Mexico oil spill is intensifying the public's desire for clean energy investments and increased regulation on corporate polluters. Overall, 63% of likely 2010 voters support an energy bill that would "limit pollution, invest in domestic energy sources and encourage companies to use and develop clean energy. It would do this in part by charging energy companies for carbon pollution in electricity or fuels like gas." Just 29% are opposed.

Additionally, the poll shows that comprehensive energy legislation can be a powerful election issue, with high support among key electoral groups.

See <http://www.lcv.org/newsroom/press-releases/poll-americans-want-real-energy-reforms-in-wake-of-gulf-coast-disaster.html>.



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## **State News**

### **California: Initiative to Repeal AB 32 Expected on November Ballot**

California's Global Warming Solutions Act would reduce greenhouse gas emissions to 1990 levels by 2020. The main provisions of AB 32, passed in 2006, are set to take effect on January 1, 2012.

Valero Energy Corp. is leading the opposition, along with Tesoro Corp. and others, against the policy that they say will cost California jobs. Their initiative is expected to appear on California's ballot in November and would put AB 32 on hold until California's unemployment stays below 5.5% for a full year. The unemployment level has rarely been that low in the last 30 years and is currently at 12.6%.

On June 10 in Washington, DC, Governor Arnold Schwarzenegger met with renewable energy leaders, including the GEA, seeking support for the opposition effort to the initiative. His focus involved elements at risk to the market if the proposition passes, such as billions of dollars of public and private clean tech investment.

AB 32's final draft regulation will be presented to the California Air Resources Board later this year, and comments are still being received. See <http://www.arb.ca.gov/cc/scopingplan/scopingplan.htm>. See also <http://www.chron.com/disp/story.mpl/business/7013421.html>. GEA's story on AB 32, "California: Climate Change Program Faces Increasing Legal and Political Attacks; Cap and Trade Program and RES Hang in the Balance," is available in GEA's May 27 newsletter: <http://www.geo-energy.org/pdf/updates/2010/Geothermal%20Energy%20Weekly%20May%2027%202010.pdf>.

### **Missouri: State Geological Survey to Compile Geothermal Data**

A \$300,000 grant from the U.S. Department of Energy will be used to compile data on geothermal potential in Missouri. The grant is part of \$17.79 million toward geothermal resource assessment across the country and will result in a comprehensive nationwide data system. Missouri is one of 46 states participating in a coalition formed by the Association of American State Geologists to create the new National Geothermal Data System.

The Missouri Department of Natural Resources' Division of Geology and Land Survey will receive the funds over the next three years. "This project will help us understand the geothermal potential in Missouri to an extent never before possible," said Mark N. Templeton, Missouri Department of Natural Resources Director. See <http://www.infozine.com/news/stories/op/storiesView/sid/41538/> and <http://dnr.mo.gov/geology>.



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## **International News**

### **Australia: Geothermal Investors May Wait for Next Year's Tax Rebate**

A tax rebate for geothermal explorations that will reimburse 30 cents to the dollar will not be available until July of next year, and it looks like a hiatus in the industry could result as companies wait for the investment incentive rather than moving forward; \$60 million in investment could be deferred.

Petratherm managing director and Terry Kallis said the Australian Geothermal Energy Association, of which he is Chairman, is meeting with Department of Resources representatives in hopes of adjusting the timeline for eligible exploration. "I think the Government will understand that it has got two programs in place and the best way to make them work, is to make them work together," he said.

See <http://www.adelaidenow.com.au/business/geothermal-sector-in-haitus-with-close-to-60m-investment-deferred-petratherm/story-e6frede3-1225874505833>.

### **Italy: Geothermal Start-up Eyes Takeover and West Rome Exploration License**

Geotermica AB, based in Sweden has plans in the works to take over majority stake in the Italian DER srl. Geotermica is issuing new shares that will finance the takeover at the end of the month. DER holds the Rome West license, located 45 km west of Rome, and is the only company to hold a geothermal exploration permit on mainland Italy other than Enel. Guy de Caprona, along with a team of oil and gas experts, founded Geotermica in 2009 as a geothermal start-up and estimates the company could begin power production from a pilot plant in early 2013.

See <http://thinkgeoenergy.com/archives/4750>.

### **Kenya: KenGen Seeks Developers for Two 140-MW Geothermal Plants**

Press Release, June 9 -- Kenya Electricity Generating Co. Ltd., the country's largest power producer, seeks companies to build two geothermal power plants to boost output.

The plants will generate 280 megawatts of electricity, KenGen, as the company is known, said in a statement published in the Nairobi-based Daily Nation newspaper today. Companies interested in the plants have until July 20 to express interest.

"Kenya has received financing from the International Development Association, the Japan International Cooperation Agency and the French Development Agency," KenGen said.

Kenya is targeting 5,000 megawatts of geothermal power capacity by 2030 after a drought curbed hydroelectric output and the cost of diesel-fueled generation jumped, Energy Minister Kiraitu Murungi said on March 30. The East African nation is spending 23 billion shillings (\$280 million) to mitigate the impact of a prolonged drought and the global recession. Utilities are focusing on geothermal power, which is generated from heat stored underground, after the dry weather cut hydro production by about half and the cost of diesel-fired generation pushed up power prices.

The projects, about 140 megawatts each, are located in Olkaria, 120 kilometers (75 miles) north west of Nairobi.

Design of the geothermal plants is already underway and project managers would be appointed by the end of 2010, Eddy Njoroge, the company's managing director, said March 31.

See <http://www.businessweek.com/news/2010-06-09/kenya-electricity-seeks-companies-to-build-plants-update1-.html>.

### **Philippines: Tiwi Geothermal Plant Supply Agreement Signed with CASURECO IV**

AP Renewables Inc. (APRI) has signed a power supply agreement with Camarines Sur Electric Cooperative Inc. (CASURECO IV). Under the PSA, APRI will deliver energy from the Tiwi geothermal plant in Albay until January 25, 2013. "APRI shall supply the contract energy at the Tiwi geothermal power plant. Line rental charges and transmission fees for delivery and transmission of the contract energy shall be for the account of CASURECO IV," the PSA stated.

See <http://www.mb.com.ph/articles/261099/aboitiz-power-supply-deal-with-casureco-iv>.

### **Portugal: Galena International Resources Files-Chaves Geothermal Prospect Report**

Press Release, June 1 — Galena International Resources Ltd. (TSX VENTURE: GTO) wishes to report that it has posted, to SEDAR the independent technical report, resource evaluation of the Chaves Geothermal prospect. The report was prepared by GeothermEx, Inc. of Richmond, California.

GeothermEx, Inc., specializes exclusively in providing consulting, operational, and training in the exploration, development, assessment and valuation of geothermal energy. GeothermEx is the largest and longest-established such organization in the Western Hemisphere, and as such GeothermEx has been associated with more than 750 projects in 44 countries acting for both government agencies and private companies.

Galena is the holder of a geothermal exploration concession at and surrounding the town of Chaves, Portugal, where historic hot springs indicate the presence of geothermal resource that potentially may be exploited to

generate electricity. The concession covers an approximate 200-km<sup>2</sup> area, which includes a protected zone at the historic hot springs and a few adjacent shallow wells. The area is easily accessed by major and minor roads, population density is moderate, and water is abundant and should be available for the Company's future drilling programs.

The Chaves geothermal region was extensively studied by academic/scientific interests in the early 1990's, with funding from the EU, directed towards exploration of the geothermal resource. Only a few shallow wells are present in the area and no deep drilling was done, but the studies indicate that further exploration is warranted.

The Company has a proposed exploration work program, which includes more comprehensive collection and evaluation of existing data, geophysical studies, and drilling to shallow and intermediate depths to define the subsurface temperature distribution. If warranted, further drilling of deep production diameter wells will be needed to confirm the resource.

For more, see [http://www.marketwatch.com/story/galena-international-resources-ltd-geothermex-report-filed-chaves-geothermal-prospect-portugal-2010-06-01-8390?reflink=MW\\_news\\_stmp](http://www.marketwatch.com/story/galena-international-resources-ltd-geothermex-report-filed-chaves-geothermal-prospect-portugal-2010-06-01-8390?reflink=MW_news_stmp).



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



## **Notices**

### **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](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.

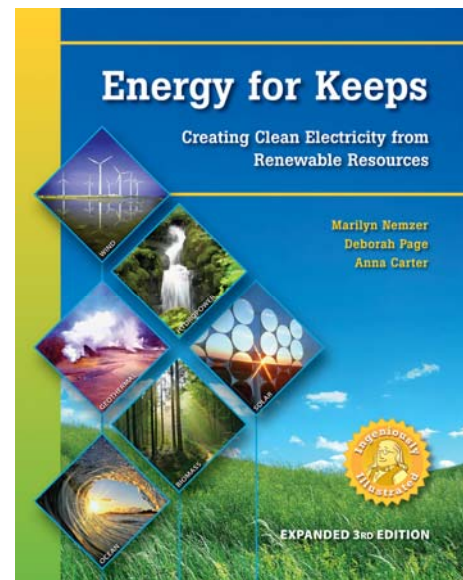
The report can be accessed via the website of the energy team at: [www.islandsbanki.is/energy](http://www.islandsbanki.is/energy).

### Award-Winning *Energy for Keeps* Introduces Expanded 3<sup>rd</sup> 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](http://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>



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## **Employment**

### **Added This Week**

#### **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 Superintendent 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](mailto:andrewmatkovic@carmongroup.com)

**Employment Opportunities****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](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).

**Project Engineer, Magma Energy, Reno, NV****Position Summary:**

In line with Company policy and accepted government and industry guidelines, provide engineering design and construction expertise and direction in support of Magma's advanced stage development projects. As Senior Project Engineer the candidate shall be responsible for managing geothermal power plant development projects from feasibility stage through detailed design, construction and commissioning. This includes technical oversight, scope development, managing all aspects of design and engineering and ensuring that project development activities are conducted to the highest standards of safety and health, conforming to Magma Energy Corp's mission, goals and objectives for safety and health.

**Major Responsibilities and Essential Duties:**

- Responsible for the design and construction of new projects and the preparation of conceptual studies for geothermal exploitation and expansions.
- Retain the required contractors and service providers to undertake aspects of the design and construction of the projects' infrastructure as well as the preparation of conceptual project studies for geothermal expansions.
- Manage employees and consultants involved with exploration, construction and expansion work.
- Prepare daily, weekly and monthly reports and schedules as required and take on other duties related to the ongoing operations or projects of the Company as may be reasonably required and assigned from time to time.
- Interact with project staff and business unit managers as required to ensure that corporate guidelines and procedures are followed.
- Work effectively with other functional areas in a proactive manner, maintaining a customer-focused perspective

**Job Specific and/or Technical Skills Required:**

- University degree in mechanical or chemical engineering (electrical may be considered) combined with professional registration (PE) in the State of Nevada (preferred).
- Minimum of 10 years practical experience, with a strong emphasis and grounding in engineering design including experience working in an engineering consulting environment and managing engineering consultants and contractors.
- EPC or EPCM experience working on projects from conceptual stage through construction and commissioning is essential.
- Proven record in contract administration and in supervision of engineering and construction services.
- Candidate must have a solid technical background and be able to understand and ideally develop heat and mass balance models for power plants.
- Experience with geothermal power plant engineering and operations is an asset but is not essential;
- Candidate shall have first-hand experience with corrosion control and mitigation systems in geothermal plants.
- Must be able to develop and maintain project schedules using Microsoft Project or other scheduling software.
- Preparation of daily, weekly and monthly reports and other duties related to the ongoing operations or projects may be required and assigned from time to time.
- Excellent communication skills (both written and verbal) and team leadership skills are important and the ability to manage employees and consultants involved with exploration, construction and expansion work. Spanish would be an asset.
- Interacting with project staff and business unit managers as required ensuring that corporate guidelines and procedures are followed.
- Frequent travel may be required but work will initially be focused on project development activities at the facility in Fallon Nevada

Software Knowledge Requirements:

- Microsoft Office Suite
- Microsoft Project

Contact: Kim Borgna, Magma Energy, at 775.787.7050 ext. 2006 or [kborgna@magmaenergycorp.com](mailto:kborgna@magmaenergycorp.com)

### **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 [lsrinkert@midamerican.com](mailto:lsrinkert@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](http://www.rasertech.com).

Resumes can also be directly submitted to: [jobs@rasertech.com](mailto: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](mailto:Vanessa.VanDyk@inl.gov), 208-526-6325

OR apply on line at: [www.inl.gov/careers](http://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](mailto: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](mailto: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](mailto:droberts@penderfinancial.com)



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## **Requests for Proposals**

### **Closing This Week**

#### **Agricultural GHG Markets, DOA (June 14)**

The U.S. Department of Agriculture requests proposals for the Economics of Markets for Agricultural Greenhouse Gases (GHG). Research should focus on the economics of agricultural activities and practices, including agricultural land use, that increase carbon sequestration or reduce GHG emissions. Priority areas of interest include: 1) Estimates of supply curves of GHG reductions from U.S. agriculture; 2) The integrity of agricultural GHG reductions procured through markets, including provisions designed to enhance this integrity; and 3) The role of non-neoclassical behavior in the provision of agricultural GHG reductions through markets. \$500K expected to be available, up to 5 awards anticipated. Responses due 6/14/10. For more info, contact Daniel Hellerstein at [danielh@ers.usda.gov](mailto:danielh@ers.usda.gov) or go to: <http://www.ers.usda.gov/Briefing/GlobalClimate/EMAGG.htm>. Refer to Sol# EMAGG2010A. (Grants.gov 5/7/10)

### **Added This Week**

#### **Department of Commerce Requests Comments on National Renewable Energy and Energy Efficiency Export Strategy**

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](mailto:newenergy@trade.gov). Please provide comments by July 1.

### **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](mailto: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)

**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](mailto:Ashleigh.Johnson@dla.mil) or go to: [https://www.fbo.gov/?s=opportunity&mode=form&id=49cd8daa9c23d79414dcf707275279b7&tab=core&\\_cview=0](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](mailto: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](http://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](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](mailto: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](mailto: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](mailto: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 Dominic Soenarno at [aps10-011@usaid.gov](mailto: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 bloomers.bryan@epa.gov or go to: [http://www.epa.gov/ncer/rfa/2010/2010\\_star\\_blackcarbon.html](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](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13380). Refer to Sol# PD-10-1518. (Grants.gov 2/17/1)



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**Events****Happening This Week****Policy Event – Breakfast on Parliament Hill, CanGEA, Ottawa, ON (June 17)**

Canadian Geothermal Energy Association  
<http://www.cangea.ca/>

**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](mailto:kathy@geo-energy.org).

For media credentials, please contact Garret Drexler at 646-695-7042 or [garret@rosengrouppr.com](mailto: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](http://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](http://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](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](mailto: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](http://www.geo-energy.org).

## Other Events

### **CanGEA's Third Annual Conference & Trade Show, CanGEA, Vancouver, BC, (August 9 & 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)**

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## GEOHERMAL ENERGY WEEKLY

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

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