

Geothermal Energy Weekly

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July 13, 2010

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



National News

Congress Returns; Is Energy or Climate Bill on the Agenda?

As Congress returns to Washington to continue its legislative session, the question many are asking is whether an energy or climate change bill will be on the agenda for the Senate. The House has already passed major climate change legislation, but the Senate has not. As with most other measures before the Senate, a super-majority of 60 votes will be needed for anything to be able to pass and the question is "where are the votes?"

President Obama has been calling on the Congress to pass legislation that will "put a price on carbon." And as a result, key Senators including John Kerry (D-MA) and Jeff Bingaman (D-NM) have been working late hours trying to put together a legislative climate deal that can garner the necessary bi-partisan support.

In particular, a proposal to impose climate restrictions only on the electric utility sector is being viewed as a possible path to a compromise. Senator Jeff Bingaman, Chair of the Senate Energy Committee, is reported to be working on such a bill and talking with potential Republicans about whether they can support such a measure. Most observers believe it could be another week or two before we know with any certainty whether a bi-partisan agreement on energy/climate is possible.

The President has also been pushing for an expansion of the manufacturing credit for green/renewable technologies. "Now, my attitude, and Harry's attitude, is that if an American company wants to create jobs and grow, we should be there to help them do it," he recently said in remarks at the University of Reno, Las Vegas. "So that's why I'm urging Congress to invest \$5 billion more in these kinds of clean energy manufacturing tax credits, more than doubling the amount that we made available last year. And this investment would generate nearly 40,000 jobs and \$12 billion or more in private sector investment, which could trigger an additional 90,000 jobs," President Obama stated.

Most consider it likely that any energy/climate measure acted on in the Senate would involve measures involving the jurisdiction of several committees, particularly the tax law writing Senate Finance Committee. In addition to the manufacturing credit, most renewable groups have been strongly urging Congress to extend the tax credit cash-grant provisions of the 2009 stimulus bill, which allowed for a cash payment in lieu of a tax credit for renewable power facilities placed in construction quickly. That provision expires at the end of this year.

Today, news that three key Republicans have agreed to support the final version of the financial reform bill has encouraged some that there may still be bi-partisan openings possible despite the fact that elections are nearing. Votes to close debate and pass the measure from Senators Olympia Snowe and Susan Collins of Maine and Scott Brown of Massachusetts will help Senate Leader Harry Reid (D-NV) break that roadblock for the wall street regulatory measure.

Meanwhile, the clock continues to work against the Senate leadership as well. As each day passes the congressional agenda gets more complicated by the need to complete action on all of the annual appropriations bills and any other pending measures hoping to make it to the President's desk before adjournment.



Company News

Bob Lawrence & Associates: Costs, Benefits of Nationwide GHP Deployment Considered

Press Release, June 2 — While the technology has existed since the late 1940s, geothermal heat pumps (GHPS), also known as ground-source heat pumps and GeoExchange®, currently account for less than two percent of the total North American heating and cooling market. Only 120,000 units were shipped in the United States in 2008.

But, what if the numbers were higher? What if GHPS were installed wherever they made economic and geographic sense? How would a nationwide deployment of these green heating and cooling systems benefit the country economically, environmentally, and socially? If GHPS were installed as widely as possible:

- How many new green jobs would GHP manufacturers create to meet the increasing demand?
- How many more feet of high-density polyethylene (HDPE) and cross-linked polyethylene (PEXA) pipe would factories produce?
- How many thousands more heat exchangers and tons more geothermal grout would be needed?
- How many greenhouse gases would not be emitted?
- How much business expansion and energy savings would result from such a momentous deployment?

With support from the U.S. department of energy through the American Recovery and Reinvestment Act of 2009, Bob Lawrence & Associates, Inc. (BL&A) and the California Geothermal Energy Collaborative (CGEC) are conducting a three-year study to help find the answers to these questions.

Over three years, BL&A and the CGEC will undertake a massive data collection effort focused on the 30 largest metropolitan areas.

BL&A and the CGEC will collect two types of data: 1) manufacturing and installation cost data, and 2) geological and geographical data.

1) Manufacturing and installation cost data will be sought from GHP manufacturers and their suppliers, contractors, engineers, installers, drillers, and others.

2) Geological and geographical data--including soil types, thermal conductivity, heat flow, hydrological properties, and heating and cooling demand--will be collected and analyzed for the 30 metropolitan areas.

The two data sets will then be correlated to identify the relationship between installation cost and location.

Lastly, BL&A and the CGEC will establish criteria for evaluating the economic, environmental, and social benefits of GHP deployment in the 30 areas, and seek to quantify those benefits.

Magma Energy: Share Offering will Fund Stake in HS Orka

Magma Energy Corp will raise about C\$40 million (\$38.5 million) through a share offering at C\$1.12 each. Magma signed an agreement with Geysir Green Energy in May to raise its stake in the Icelandic company HS Orka to 98.53% needs at least C\$45.6 million by the end of the month to fund the acquisition. Magma's chief executive Ross Beaty will provide a C\$10 million credit facility.

See <http://af.reuters.com/article/energyOilNews/idAFN1220640520100712>.

Nevada Geothermal Power: Activities Update Provided

Press Release, July 7 — Blue Mountain, Faulkner 1 Geothermal Plant Output: The Company said it likes the performance of the plant since the re-design and installation of the new electrical cable system. In April and May 2010, the first full months of operation since electrical repairs were completed, the average net plant output was 38 MW, plant availability was 99 percent, and gross revenue was US\$4.2 million (June performance is similar). Operations during the period have proceeded without incident.

According to a release, the Faulkner 1 plant is currently operating at 38 MW (net) due to its current selection of the supply amount under the Power Purchase Agreement with Nevada Energy (the PPA). The Company intends to seek an increase of the supply amount in the fourth quarter of this year. Factors that will determine the amount of the supply amount increase include connection of production well 44-14, further optimization of injection, and available cooling water supplies.

The Company intends to increase production from the Faulkner 1 plant to 45 MW (net) through an optimization program during the remainder of 2010. Funds necessary for this program will be made available from a drilling reserve fund established as part of the John Hancock financing.

Development Plan for Blue Mountain: The Company will conduct further confirmation drilling to establish additional resources for production and to develop new areas for injection in order to enhance overall reservoir performance.

The Faulkner 1 plant currently uses injection wells completed into a deeper, hotter western segment of the Blue Mountain reservoir. These injection wells communicate closely through fractures with the existing production well field and have the potential to cause temperature decline over the long term. As new injection wells are drilled at targeted sites on the property, such western injection will be diminished, thereby allowing for sustained higher production at the Faulkner 1 plant and for additional resource to be developed for expansion.

The Company noted its development plan incorporates establishing new injection areas and the conversion of selected existing injection wells into production wells for a Phase II plant. Existing western injection wells (61-22, 58-11, 57-15 and 55-15) are connected to the central Faulkner 1 plant by insulated pipelines and can be readily converted into production for the Phase II plant. In the event that the Company's plan to develop new injection wells is successful, the re-configured well field would result in an immediate increase in production capacity and new production well locations which will allow for expansion of the existing production core. The Phase II plant has a planned capacity of 25 MW (net) bringing the total possible production capability from the field to approximately 70 MW (net).

See <http://www.nevadageothermal.com/s/News.asp>.

Ram Power: Company to Acquire Sierra Geothermal Power

Press Release, July 8 — Ram Power, Corp. (TSX: RPG) ("Ram Power") and Sierra Geothermal Power Corp. (TSXV:SRA) ("Sierra") are pleased to announce that, in accordance with the letter of intent previously announced on June 1, 2010, they have entered into a definitive arrangement agreement whereby Ram Power will acquire all the issued and outstanding common shares of Sierra.

Under the terms of the transaction, which is structured as a plan of arrangement pursuant to the Business Corporations Act (British Columbia), each common share of Sierra will be exchanged for 0.0833333 of a common share of Ram Power, and all options and warrants of Sierra will become exercisable for options and warrants of Ram Power on a basis equivalent to the exchange ratio. Upon closing of the transaction, Ram Power is expected to issue approximately 11.13 million common shares to the current shareholders of Sierra. The transaction is expected to close during the third quarter of 2010 and is subject to there being at least \$2.9 million of working capital of Sierra at closing, receipt of TSX and TSXV approval, the approval of the common shareholders of Sierra at a shareholders meeting to be scheduled on or before August 31, 2010, and court approval.

Ram Power has also received voting agreements from Skyberry Holdings Ltd. and Exploration Capital Partners 2005 Limited Partnership in which each of those shareholders have agreed to vote their shares of Sierra in favor

of the transaction at the upcoming special meeting of Sierra shareholders which will be called to approve the transaction. In the aggregate, those shareholders hold approximately 23.7 million common shares of Sierra representing approximately 17.8% of the issued and outstanding shares of Sierra.

Gary Thompson, Sierra's President, Chief Executive Officer and Executive Director, stated, "We are pleased to have formalized an arrangement agreement between Ram Power and Sierra. We believe that Sierra shareholders will benefit from this transaction by owning shares of a well capitalized company, a solid pipeline of properties, excellent growth potential and increased liquidity. We also see this deal as a positive for the geothermal sector in general. This deal has full support of the Sierra's Board of Directors, Special Committee and Management. The next business item for us is to provide shareholders with an information circular."

For more, see http://www.marketwatch.com/story/ram-power-and-sierra-geothermal-power-enter-into-a-definitive-agreement-2010-07-08?reflink=MW_news_stmp.

Raser Technologies: Substantial Payment Made on Thermo No. 1 Debt

Press Release, July 13 — Raser Technologies, Inc. , an energy technology company, announced today that it has entered into an agreement with the senior secured lender that provided the debt financing for the Thermo No. 1 geothermal power plant to repay a substantial portion of the debt.

Under the arrangement, the lender will receive an immediate payment of \$27 million out of project escrow accounts and will waive compliance with applicable debt-related covenants and obligations for the next year. In addition, Raser will make an additional payment of up to \$6 million before June 29, 2011. Over the next 12 months, Raser will follow its plan to sell certain assets which will help establish the value of the Company's portfolio. As part of this process, Raser will satisfy the remaining obligation to the Thermo lender from the sale proceeds of a part or all of its interest in Thermo No. 1 or another asset. Alternatively, Raser can satisfy this obligation using cash from other sources. After providing for the initial payment to the lender, approximately \$3 million of currently escrowed funds will remain in a project escrow account to provide for the operation of the plant and other related expenses.

The Thermo No. 1 plant is currently producing a little over six megawatts of electricity that is available for sale. While this is below the original anticipated output level, several unaffiliated, geothermal equipment manufacturers have indicated to Raser that, in their judgment, significant improvement in the electrical output of Thermo No. 1 is possible. They have represented to Raser that the addition of larger, more efficient generators at the Thermo No. 1 project would enable the generation of between 9-11 megawatts of electricity, based on current geothermal flow and temperature conditions.

Nick Goodman, Raser's CEO, commented, "Raser would need additional capital to install larger generating units at our Thermo No. 1 project. Therefore, instead of upgrading the units ourselves, we are considering the sale of equity interests in the Thermo No. 1 project while maintaining ownership in the remaining Thermo field - a resource that GeothermEx reports has the potential to produce an additional 150-200 megawatts of geothermal power. If we are able to sell our interests in Thermo No. 1 to a third party with the capital to upgrade the generators at the Thermo No. 1 project, we believe it will further validate the larger Thermo area, demonstrating the viability of the Thermo area resource for additional power plants."

See <http://www.rasertech.com/category/news/press-releases>.



Renewable Energy and Climate Change

Renewable Production Almost Equal to Nuclear Power in Q1 2010

From Sustainable Energy Coalition/SUN DAY Campaign — According to the latest issue of the “Monthly Energy Review,” during the first quarter of 2010, renewable energy sources (biomass, biofuels, geothermal, solar, water, wind) accounted for 10.73% of domestic energy production. The combined output of 1.967 quadrillion Btus was 6.6% higher than for the same period in 2009 and 9.7% higher than for the first quarter of 2008. By comparison, nuclear power accounted for 11.54% of domestic energy production while experiencing a drop of 1.5% compared to the first quarter of 2009.

See <http://www.eia.doe.gov/emeu/mer/contents.html>.

Utilities Face Shift Toward Renewables and Efficiency, Report Says

A new report by Navigant Consulting for Ceres, a Boston-based coalition of investors and environmental groups, says that electric utilities are facing a shift of investments toward greater efficiency measures that add more natural gas and renewable energy to power supplies.

The shift is caused partly by regulations requiring decreasing greenhouse gas emissions by as much as 80% by 2050. Additionally, many policies at the state level have made fossil fuel-based electric generation more costly. Over the last decade, 120 coal-fired power plant projects have been canceled due to environmental and financing issues, according to the report.

"A utility that deals effectively with these trends, and receives sufficient support from regulators and legislators, will be better positioned to success in the 21st century," says the report. "All else equal, such a utility is also more likely to attract lower cost capital, enabling it to earn stronger returns for investors."

See <http://www.eenews.net/climatewire/2010/07/09/2/>.



State News

Alaska: Energy Co-Op Drills Geothermal Test Well

The Naknek Electric Association, an energy co-op, is conducting exploratory drilling in King Salmon for geothermal energy project feasibility. The project has a 10-year history leading up to the test drilling, and has had a cost of over \$20 million.

"It's a new industry for an electric co-op," Donna Vukich, the association's general manager told press. Vukich said Naknek Electric currently relies on expensive diesel and chose geothermal because it's a long-term investment.

See <http://www.ktuu.com/Global/story.asp?S=12778651>.

California: PUC Approves Geothermal, Solar Contracts

Last week the California Public Utilities Commission approved contracts for geothermal energy and solar energy. San Diego Gas & Electric Co will generate geothermal power in Sonoma and Lake Counties through and Calpine Corp, and Southern California Edison will use solar-thermal power through Solar Millennium LLC.

San Diego Gas & Electric Co is expected to acquire 212 gigawatt-hours of electricity from the Geysers geothermal field every year until 2014. The new contracts will contribute to California's goal to reach 33% of electricity from renewable sources by 2020.

See <http://www.reuters.com/article/idUSN0823039820100708>.

Colorado: BLM Studies San Luis Valley for Potential Geothermal Leases

The Bureau of Land Management has started an analysis in San Luis Valley to determine what lands should be open to geothermal leasing and under what conditions, Joe Vieira, project manager for BLM's office in the valley, told press. BLM is currently seeking public comment as it considers a new leasing program, which could include nominations and competitive bidding and is expected to be completed in March. The current system was inaugurated in 1991.

Nine areas in the state have been identified with geothermal potential, and the U.S. Geological Survey has estimated up to 67 MW of potential energy could be developed from geothermal sources by 2038.

See http://www.chieftain.com/business/local/article_4302a678-8bd9-11df-a164-001cc4c03286.html.

Idaho: Officials Promote Boise Geothermal Project

Press Release, July 7 — Federal and local lawmakers meet in Boise Wednesday to promote the expansion of the geothermal system that helps warm Idaho's capital city to Boise State University.

This is part of a wave of geothermal power projects quietly gaining traction on college campuses where energy costs run into the millions each year.

U.S. Sen. Mike Crapo, Boise Mayor Dave Bieter and Boise State University lobbyist Bruce Newcomb are among officials who will be on hand.

The first phase, due to cost about \$2 million in federal funds, will connect the city's system to BSU.

The second \$2 million phase - including a \$1 million appropriation from the U.S. Department of Energy and another \$1 million from the city and BSU - will extend the geothermal system to the east end of campus and complete the loop back across the Broadway Avenue bridge.

See <http://www.khq.com/Global/story.asp?S=12765977>.

Utah: Iron County Company Studying Low-Temperature Geothermal

Last week PurpleEnergy, an Iron Country company received a letter of support from the Utah Generated Renewable Energy Electricity Network Authority Board regarding its efforts to win a \$5 million grant from DOE. The funding will go toward studying low-temperature geothermal energy and could open up more opportunities for geothermal development in Utah. The company is working with the University of Utah's Energy and Geoscience Institute on its hybrid geothermal project.

See <http://www.deseretnews.com/article/700046269/Utah-company-researching-cool-geothermal-power.html>.

Wyoming: Teapot Dome Could Have Second Unit Running by End of Month

A story on KUNC radio in Northern Colorado discusses geothermal development in Colorado and Wyoming, noting that geothermal development projects have had a slow start in these states. Teapot Dome in Wyoming is the state's only geothermal site and is owned by DOE. The site could have a second unit running by the end of the month.

GEA's executive director Karl Gawell told KUNC: "The sense is that there is a whole lot of geothermal energy to be developed in the West, but we need to develop the technologies to find it successfully and work with it."

Teapot Dome is an oil and gas coproduction test site and could propel similar projects. "They already have the roads and the infrastructure is already there," said Seth Wittke, the lead geothermal researcher at Wyoming's State Geological Survey. "As long as it is long-term feasible to produce energy, I think that's a good idea." The story notes that these projects could be more easily acceptable by the public, since they require less new development.

See

<http://www.publicbroadcasting.net/kunc/news.newsmain/article/1/0/1671935/Regional/Geothermal.Slow.to.Take.Off.in.Wyoming..Colorado>.



International News

Chile: Report Provides Mergers & Acquisitions Deal Analysis

GGE Chile SpA, a subsidiary of GeoGlobal Energy LLC, plans to invest \$187.7 million for a 70-MW geothermal plant in the San Gregorio district of Southern Chile. A new energy research report from GlobalData includes information on the project finance deal, a brief on GeoGlobal Energy, a comparison of geothermal sector project finance deals, and the rationale and impact behind project finance by GeoGlobal Energy. The report is available at www.fastmr.com/prod/67744_mergers_acquisitions_deal_analysis_gge.

See <http://www.pr-inside.com/mergers-acquisitions-deal-analysis-r1983003.htm>.

Hungary: Construction Begins on Country's Largest Geothermal Development

The Icelandic Mannvit Engineering began construction of a geothermal district heating plant in Szentlorinc with an official groundbreaking ceremony last week. The well is expected to begin operations by October and is the largest geothermal development in Hungary.

In June, a 15-year agreement was signed between Szentlorinc Geotermia Zrt., a 90%-owned subsidiary of PannErgy Polifin Zrt. and, the non-profit Szentlorinci Közüzemi Közhasznú Kft. The new system will replace the town's natural-gas district heating system.

See <http://www.prweb.com/releases/2010/07/prweb4229154.htm>.

Indonesia: Exim Bank Credit to Include Funding for Geothermal

The Export-Import Bank of the United States will use part of a \$1 billion credit to finance geothermal energy projects, Walter North, mission director for USAID in Indonesia, said at a Jakarta conference. "The US Export Import bank, for example, is going to provide financial support of over \$1 billion for credit facilities in Indonesia, including for geothermal," he said.

The U.S. Exim Bank announced in June it had pre-approved 11 Indonesian banks to receive part of the funds. U.S. companies have about \$18 billion worth of investment in Indonesia.

See <http://af.reuters.com/article/energyOilNews/idAFJAK42681620100712>.

Indonesia: Terra Energy Announces Effort to Fund Geothermal Project

Press Release, July 12 —Terra Energy Resources Limited (Pink Sheets:TRRE.pk - News) announced that it has issued 15 Million shares of new, restricted shares to be deposited into an attorney trust account for the purposes of collateralizing a \$5,000,000 fund raising effort. This is in accordance with an agreement signed a few weeks prior stating that Terra Energy Resources will aid in the further development of a geothermal project in Indonesia. Terra Energy Resources Limited entered into negotiations with Jala Tekno Geothermal for potential areas of mutual cooperation. Jala Tekno is a subsidiary of Pandawa Energy, a renewable and geothermal energy holding company based in Jakarta. Tekno has already drilled a steam well, that has been evaluated to produce more than 6 megawatts of steam in a field that holds geothermal resources in the range of 75 MW to 150 MW.

"We are very confident that this funding will only strengthen future revenues of both companies," stated Catherine Balloqui of Terra Energy.

See <http://www.prnewswire.com/news-releases/terra-energy-announces-effort-to-fund-indonesian-geothermal-project-98245479.html>.

Kenya: World Bank Lends \$453 Million for Geothermal Development

Kenya will borrow \$453 million from the World Bank toward geothermal energy development, Finance Minister Uhuru Kenyatta told press. About \$120 million will be used to expand the Olkaria I plant and build Olkaria IV, an increase of 280 MW.

Funds will also go toward transmission lines and the rural electrification program. "The project is intended at strengthening and extending the distribution grid across the country through construction of an estimated 1,300 kilometers of distribution lines to enhance connection and the refurbishment of about 26 substations to improve reliability," said Johannes Zutt, the World Bank country director.

The World Bank is now the largest single contributor to the Kenya's geothermal development project. The total estimated cost is \$1.4 billion and it should be completed by 2013

See <http://www.businessweek.com/news/2010-07-05/kenya-to-borrow-453-million-from-world-bank.html> and <http://www.businessdailyafrica.com/Company%20Industry/KenGen%20receives%20Sh26%20billion%20for%20geothermal%20power/-/539550/953380/-/ldyt7b/-/>.

Papua New Guinea: EDC Extends Contract

Energy Development Corp. has extended a contract with Lihir Gold Limited of Papua New Guinea LGL. The original contract to increase the geothermal power plant capacity by an additional 40 MW was set at \$15 million and was scheduled to expire in April, while the extension will increase to anywhere between \$19 million and \$20 million and will go to December 2010.

See <http://business.inquirer.net/money/topstories/view/20100705-279385/EDC-extends-work-abroad>.



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



Notices

Current Notices

Colorado Geothermal Working Group Presentations Posted on New Group Site

Presentations from the May 27 Geothermal Working Group meeting at the Denver Museum of Nature and Science are now posted at a new group site called Geothermal Energy in Colorado: <http://coloradogeothermal.groupsite.com/>. By joining and participating in this site you will have access to geothermal resources, notices and communications, and networking opportunities. All members can post geothermal events to a calendar, join a forum for discussions, and access an index for finding contacts and resources.

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.



Employment

Added This Week

GIS Specialist, Nevada Geothermal Power, Reno, NV

Primary duties include spatial analysis using ESRI ArcGIS products, generation of presentation quality maps and diagrams, and GIS technical support. Demonstrates skills using ArcGIS suite of products and provides wide range of GIS support services. Has ability to work independently and also within a team environment. Position is to be based out of the Reno office. Some travel may be required to the Company's head office in Vancouver, BC.

Essential Requirements:

- Proficiency using ArcGIS Desktop suite of products (ArcMap, ArcCatalog, ArcToolbox, Spatial Analyst, 3D Analyst and Target for ArcGIS).
- Create, acquire, design and maintain a variety of spatial data layers and associated attributes.
- Manipulate, analyze and interpret geological, geophysical and geochemical data from many sources and format types.
- Receive, verify process and plot GPS data.

Beneficial Assets:

- Knowledge of current IT best practices.
- Integrate AutoCAD drawing files into ArcGIS formats.
- Experience with 3D geo-visualization and image simulations.
- Proficient in using publishing applications (e.g. Corel Draw) and multimedia development.
- Experience in image viewing software like Global Mapper.
- Proficient cartographic skills and techniques.

Education:

Completion of an Associate Degree program, including significant course work in GIS and Mapping and a minimum of 2 years' directly related experience, or equivalent education towards a Bachelor's Degree in Geography or related field focusing in GIS.

Please send resumes to careers@nevadageothermal.com

Employment Opportunities

For details on listed employment opportunities, visit http://geo-energy.org/empl_opport.aspx.

Vice President Geology, Western US

Please send resumes to Bstevens@stmassociates.com

Geothermal Openings, NREL, Boulder, CO

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

Drilling Manager, NV

Contact:

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

Geophysicist, Calpine, The Geysers, CA

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

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

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

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

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

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com



Requests for Proposals

Closing This Week

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)

RFP Announcements

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)

State Energy Program, U.S. DOE (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)

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

Happening 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: http://cleantx.org/bio_geothermal.html

Cost: \$20 for pre-registration, \$30 for late-registration. Register Here:

<https://s07.123signup.com/servlet/SignUp?PG=1532410182300&P=1532410191150055800>.

Added This Week

Geothermal in the Oil Field, RMOTC, Casper, WY (August 18-19)

The U.S. Department of Energy's Rocky Mountain Oilfield Testing Center (RMOTC), the National Renewable Energy Laboratory (NREL), and the Southern Methodist University (SMU) Geothermal Laboratory are partnering to host a two-day geothermal symposium in Casper, Wyoming. The symposium will highlight the application of low-temperature geothermal power production in oil and gas operations and other settings in the western United States.

On Day 1, RMOTC will host a field tour of its test site located at the Naval Petroleum Reserve No. 3 (NPR-3) 35 miles north of Casper, Wyoming. The tour will include the low-temperature Organic Rankine Cycle technology test at NPR-3 and provide an afternoon geologic field tour of nearby formations. The keynote speaker from NREL will kick off an evening reception in Casper. Day 2 will be a full day of technical presentations and panel discussions by DOE and industry persons. Lunch will be provided both days.

This first-of-its-kind symposium will cover low-temperature projects throughout the western U.S. and provide an opportunity for participants to learn of the remarkable potential for power generation using co-produced fluids from existing oil, gas, and industrial infrastructure with minimal additional environmental impacts.

To register for this symposium, go to <http://www.rmotc.doe.gov/registration.html>. Registration is due August 6, 2010. For more information, call (888) 599-2200 or e-mail talk@rmotc.doe.gov.

Caribbean Renewable Energy Forum, the Bahamas (October 13–15)

CREF will take place at Atlantis, the Bahamas, on October 13th-15th. Register before July 16th and qualify for an early bird discount of 15% on the registration fee.

Energy prices in the region remain exorbitantly high, the policy environment is improving, financing is available for the right projects: in short, there is a rich vein of opportunity for renewable energy development in the Caribbean. At CREF:

- Meet and build relationships with the region's energy stakeholders. Confirmed to attend at this stage are the utilities and/or governments of the Bahamas, Barbados, Bermuda, Cayman, Dominica, Jamaica, Puerto Rico, St. Kitts & Nevis, Martinique, and St. Lucia
- Get to grips with investment opportunities across the region; understand the implications of ongoing policy discussions
- Meet providers of capital. All the multilaterals active in the region will be present, including the IDB, OPIC, EIB, et al. Also participating will be providers of private capital, including the region's commercial banks as well as regional and international private equity funds
- Achieve in two days at CREF the equivalent of weeks of travel, meetings, and intelligence gathering
- Gather valuable insight from a world-class line-up of speakers which includes:

Hon. Phenton Neymour - Minister of State, Bahamas

Hon. Carlisle Powell - Minister of Communication, Works, Public Utilities, Nevis Island Administration

Hon. Kenneth McClintock-Hernández - Secretary of State, Puerto Rico

Peter Williams - CEO, Barbados Light & Power

Jigar Shah - CEO, Carbon War Room; Founder & Former CEO, SunEdison

Will Wynn - former Mayor, Austin, TX; former Chairman of the Board, Austin Energy

Leandro Alves - Chief, Energy Division, Energy and Infrastructure Department, Inter-American Development Bank (IDB)

Richard Ashby - CFO, RES Americas

Dr. Rene Jean-Jumeau - Chief, Energy Management Unit, Ministry of Public Works, Haiti

Earl Barrett - General Manager, Wigton Wind Farm, Jamaica

Gabriel Goldschmidt - Manager, Infrastructure, Latin America & Caribbean, International Finance Corporation (IFC)

Philippe Benoit - Sector Manager, Energy, Latin America & The Caribbean, The World Bank

To view the latest agenda please follow this link: www.caribbeanenergyforum.com/agenda.php.

To qualify for a 15% early bird discount on the registration fee, please register by July 16th. To register please follow this link: www.caribbeanenergyforum.com/attend.php?sub=register.

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

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 2010Sponsorship 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

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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