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National News

Mid-Term Elections Support Positive Outlook for Geothermal Energy

The following statement from Geothermal Energy Association Executive Director Karl Gawell was issued Wednesday, November 3 to interested press:

“While there are races that will not be determined for days to come, the results already in from the 2010 midterm elections show a positive outlook for geothermal energy. Both at the federal and state levels, there will be continued support for the policies and programs needed to expand geothermal production in the United States.

Republicans taking control of the House will likely increase support for action on extending tax credits – a top priority for the geothermal industry. The House Republicans energy blueprint, the American Energy Act, proposes making the renewable production tax credit permanent which is important for continued growth. Senate Majority Leader Harry Reid proposed similar legislation in a previous Congress. The on-again, off-again history of renewable tax incentives undermines investment in new geothermal projects and their supporting manufacturing, drilling, and construction industries. In addition, the new House of Representatives is anticipated to provide strong oversight of agency processes and support streamlining of areas of persistent bureaucratic delay. Reducing bureaucratic delays can only help move new geothermal projects forward.

In both the House and Senate, key geothermal supporters won re-election, several by significant margins. We believe this reflects that their efforts to support more clean, domestic geothermal power production were recognized by their constituents.

At the state level, the election results also brought positive developments. In California voters rejected Proposition 23—which would have suspended the state’s historical climate law. Not only does this demonstrate public support for action on climate change, but it means there will be a strong market for clean, reliable geothermal power in California where geothermal continues to be the leading renewable power provider.”

Election Results – A Look at Some Key Congressional Races for Geothermal

Many of the strongest supporters of geothermal energy were returned to Congress.

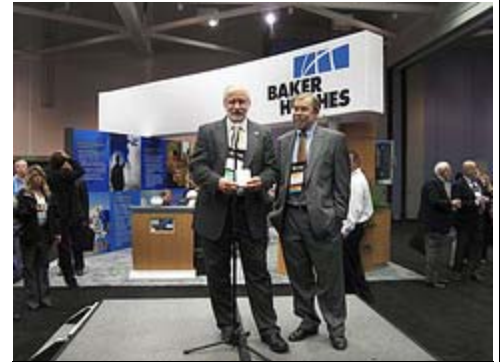
In the Senate, Majority Leader Harry Reid was re-elected, as were Senators Wyden and Crapo, who co-sponsored S.3788, legislation to extend the 30% ITC for geothermal to 2016. It also appears Senator Lisa Murkowski may be leading in Alaska but it may take weeks to determine a winner due to her having to wage a write-in campaign.

In the House, Earl Blumenauer (D-OR) easily won re-election with 75% of the vote. Looking at the other co-sponsors of HR 5612, Blumenauer’s bill to extend the ITC for geothermal to 2016, most were returned to office by strong majorities.

Geothermal Energy Expo Sees Record Attendance, 2011 Event Slated for San Diego

Sacramento, Calif (October, 27, 2010) More than 2,500 attendees from all 50 states and over 20 countries came together in Sacramento for the 34th annual Geothermal Energy Expo, the largest gathering of geothermal energy leaders in the world. The sold out Expo Hall featured leading companies including Halliburton, Ormat, Stoel Rives LLP, Shaw, Calpine, Geothermal Resource Group, Mitsubishi Power Systems, Enel Green Power, Gradient Resource, Power Engineers, Ruen Drilling Incorporated, Islandsbanki, and Ram Power Corp.

“The strong growth of the geothermal industry is clearly reflected in this expo, which continues to bring more and more people to see the promise that clean and renewable geothermal power presents.” said GEA Executive Director Karl Gawell. “It’s not just here at home. The U.S. is the leader in geothermal power, and other countries look to America for its expertise. That’s why we had representatives from across the globe at this year’s expo.”



Executive Directors Karl Gawell (left, GEA) and Curt Robinson (GRC)

With new geothermal power projects in progress in fifteen states from the Pacific to the Gulf Coast, the Geothermal Energy Expo has been rapidly expanding, with the number of exhibitors more than doubling since 2008. The 2010 expo showcased projects, equipment, services, and state of the art technology from exhibitors, both international and domestic. The expo also brought new talent to the industry, with a virtual job fair connecting new applicants with the industry’s leading companies and complimentary admission available to college students.

GEA report “Green Jobs through Geothermal Energy,” released during the Expo, showed how the industry is creating more jobs than conventional energy and is creating jobs that are permanent, full-time, and often provide a higher wage; in some cases with pay that doubles county and state averages. The report found that the federal stimulus, tax incentives, and strong state renewable standards continue to fuel the growth in geothermal power and job creation.

Every geothermal project that came online in 2009 took advantage of the tax reimbursement provisions of the stimulus bill, which helped maintain momentum for new projects and continue to create new jobs in America. Four of the top five states with geothermal power under development have substantial renewable electricity standards. In addition, the benefits of the stimulus to the geothermal industry have yet to be fully realized. About 95% of the projects receiving ARRA funding are either less than 50% complete or have yet to break ground.



A busy day in the Expo Hall

In addition, at a press Conference on Friday, October 22 Sacramento Mayor Kevin Johnson (photo, left) joined GEA’s Executive Director Karl Gawell, GEA’s Director of Events and Marketing Kathy Kent, Jeremy McGrath, Business Development Project Manager, Ram Power, and Jared Potter, Cofounder, President, and CEO of Potter Drilling. In addition to announcing the new GEA reports, they provided reporters an overview of the upcoming events in Sacramento and examples of the work geothermal companies were doing to move the industry forward. Mayor Johnson declared October 23 through 27 Geothermal Energy Week in Sacramento.



The 2011 Expo will be held in San Diego from Oct. 23-26, 2011. For more information about exhibitor and sponsorship opportunities, please contact Kathy Kent at (202) 454-5263 or kathy@geo-energy.org. For more information please contact Garret Drexler at 646 695 7042 or garret@rosengrouppr.com.

Results and Awards from the Geothermal Energy Expo 2010

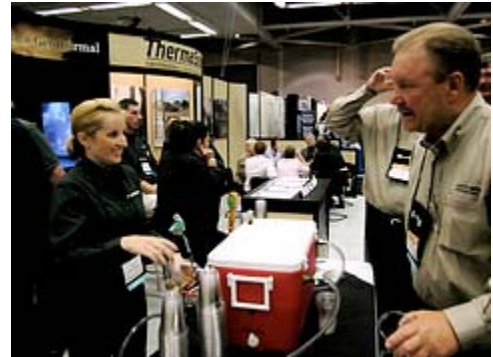
GEA's Geothermal Energy Expo 2010 saw an increase in both exhibitor participation and attendance, with 162 exhibitors coming from 34 different states and 10 different countries, and visitors to the Expo Hall from 42 different states and 13 different countries. Between Expo hall registration and registrants for GRC's annual meeting, the GEA and GRC co-located events saw over 2500 participants this year.

Coverage on the GEA Expo and the reports released during that time received coverage in over 25 outlets reaching an audience of nearly 13 million. Highlights included CBS Radio (National), Sacramento Bee, "Good Day Sacramento" (CW), E&E News, The Oklahoman and Reuters. Fifteen reporters dialed into the GEA Jobs report press conference, including Time magazine, Greenwire, Platts and SNL Energy.

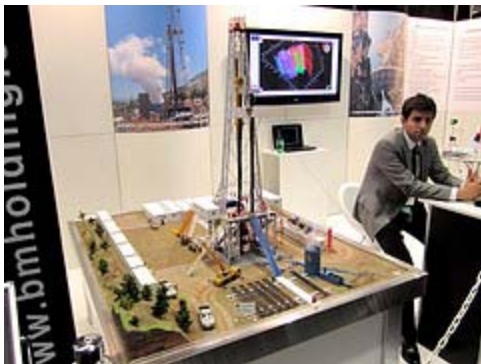
GEA's annual exhibitor Best in Show awards went to:



Matrix Chemical: Best Small Booth



ThermaSource: Audience Choice



BM Holdings: Best Large Booth



TNG Energy Service: Best Giveaways

More photos at: <http://www.flickr.com/photos/geo-energy/sets/72157625312436322/>

Videos and coverage: http://geo-energy.org/new_expo/default.asp

See also <http://www.renewableenergyworld.com/rea/news/article/2010/11/the-geothermal-paradox-success-makes-for-more-challenges>

Company News



Energy Source LLC: 49-MW Hudson Ranch Project Creates Over 200 Jobs

Press Release -- El Centro, California -- EnergySource LLC, an independent power producer that develops renewable energy resources, today announced the commencement of construction of its Hudson Ranch I project, a 49 MW high temperature geothermal power generation project in Imperial County, California. The project has been under development since 2006 by Catalyst Renewables and Hannon Armstrong, the majority owners of EnergySource (formerly CHAR).

"We are very encouraged by the response of the project finance market to a new generation of high temperature flash-technology geothermal power projects that will serve utility customers with base load renewable energy," remarked Dave Watson, President of EnergySource. "The Hudson Ranch Power I project will commence construction in one of the best geothermal resources in North America, as well as create much-needed employment opportunities in Imperial County."

Debt financing for the nearly \$400 million project was raised by an eight member bank syndicate led by ING Capital, Societe Generale and West LB, and included Union Bank, MetLife, CIBC, Siemens Financial and Investec. Additional equity was raised from GeoGlobal Energy LLC (GGE), a privately held geothermal energy-focused investment firm backed by Mighty River Power, a state-owned New Zealand utility. Hannon Armstrong represented EnergySource in raising both the debt and equity.

Eric Spomer, President of Catalyst Renewables and an EnergySource director said, "We have enjoyed tremendous local support in the Imperial Valley for this project from the Imperial Irrigation District, the Imperial County government and from the quality local contractors who will make this project a success". Spomer also cited Salt River Project, the purchaser of the plant's power for "extraordinary cooperation and faith in the project's ultimate success."

Sarah Slusser, a GGE partner, which invested \$90 million in the project, expressed confidence in the investment by saying "Hudson Ranch is exactly the kind of geothermal opportunity GGE is looking for and we are delighted to have the opportunity to bring our financial and technical resources to help make the project a success."

The project will take 21 months to build and will create 200 full-time equivalent construction jobs. Once completed, it will employ 35 full-time plant operations employees. John Featherstone, Senior Vice President of Engineering and Operations at EnergySource remarked, "It has been 20 years since the last stand-alone flash geothermal plant was built in this excellent resource and we are excited to use all the lessons learned from the existing plants to make this a best-available-technology geothermal power plant. This plant design ensures very efficient water use, which is a critical attribute in the southwestern U.S."

The project will benefit from Federal tax incentives contained in the American Recovery and Reinvestment Act ("ARRA"). EnergySource acknowledged the support of numerous local politicians and business leaders, joined by Congressman Filner and Governor Schwarzenegger, in supporting the Hudson Ranch project throughout the development process.

See <http://www.energysource.us.com/news.html>.

Nevada Geothermal Power and Ormat Nevada: Joint Development Underway in Lake County Oregon

Press Release, Vancouver, British Columbia, November 1 — Nevada Geothermal Power Inc. (TSX.V: NGP, OTC Bulletin Board: NGLPF) and Ormat Nevada Inc., a wholly-owned subsidiary of Ormat Technologies Inc. (NYSE: ORA) are pleased to announce that they have signed a letter agreement under which they have agreed to jointly develop, construct, own and operate one or more geothermal power plants at the Crump Geyser Project Area located in Lake County, Oregon. The parties will form a limited liability company, Crump Geothermal Company LLC ("CGC"), for such purpose that will be owned by Nevada Geothermal Power Company, a wholly-owned subsidiary of Nevada Geothermal Power Inc. ("NGP"), and Ormat Nevada Inc., on a 50:50 basis.

The parties plan to start construction and drill at least one development well for the first power plant with an expected generation capacity of up to 30 MW in 2010 and to place the plant in service before the end of 2013 so as to qualify for the Treasury Cash Grant under Section 1603 of the American Recovery and Reinvestment Act ("ARRA"). The parties also intend to apply for a Department of Energy loan guarantee under Section 1705 of the ARRA.

Under the Agreement between NGP and Ormat, NGP will contribute its title and interest in Crump Geyser Project geothermal leases, technical and engineering data, existing permits and the benefit from the on-going Department of Energy (DOE) cost-share grant for exploration in relation to the Crump Geyser area. Ormat will fund 100% of the initial development activities of CGC in the amount of US\$15 million and pay NGP US\$2.5 million in installments over a three year period.

For more see <http://investor.ormat.com/phoenix.zhtml?c=181999&p=irol-news&nyo=0>

<http://www.sustainablebusinessoregon.com/articles/2010/11/big-geothermal-plant-planned-for-lake.html>

U.S. Geothermal: Fourth and Final Needed Production Well Drilled at Neal Hot Springs

Press Release, BOISE, Idaho - November 3, 2010 (NYSE Amex: HTM, TSX: GTH) U.S. Geothermal Inc. ("U.S. Geothermal"), a leading renewable energy company focused on the development, production and sale of electricity from geothermal energy, announced today that its subsidiary, USG Oregon LLC, has successfully drilled and tested NHS-2, the fourth large diameter production well at the Neal Hot Springs geothermal project located in eastern Oregon. The production well encountered the reservoir at 2,983 feet (979 meters). The well flowed under artesian pressure at a rate of 3,027 gallons per minute ("gpm"). The production temperature of the well is 287° F (142° C). USG Oregon LLC is owned 80% by U.S. Geothermal and 20% by Enbridge Inc.

Subject to establishing reservoir pressure support by drilling additional injection wells, the four wells complete the total production wells needed for the 23 net MW project. Three existing production wells have previously been drilled and tested. Well NHS-1 intersected the reservoir at 2,287 feet (750 meters) and flows under artesian pressure at a rate of 2,315 gpm with a production temperature of 286.5° F (141° C). Well NHS-5 encountered the reservoir at 2,796 feet (917 meters) and flows at a rate of 1,500 gpm and with a production temperature of 286° F (141° C). NHS-8 intersected the reservoir at 3,604 feet (1,182 meters) and flows at a rate of 2,770 gpm with a production temperature of 287.5° F (142° C). Wells with a flowing temperature of 286° F (141° C) and a pumped flow rate of 2,000 to 3,000 gpm are considered very viable to substantiate commercial power generation.

Daniel Kunz, President and Chief Executive Officer, said "NHS-2 has the highest artesian flow rate of any well drilled at Neal Hot Springs. Like NHS-8, this is a great well. I am pleased that all four of these production wells came in under budget and we are able to reduce the total cost of the project by drilling smaller diameter injection wells".

The four production wells were drilled with a bottom-hole diameter of 12.25 inches; however, the project has employed a second rig to drill 8 inch bottom-hole diameter, low cost injection wells. Two injection wells, NHS-13 and NHS-10, have already been drilled and tested and together are expected to take up to 1800 gpm.

Renewable Energy and Climate Change

Great Basin Center, DOE and GEA Host Geothermal Resource Assessment Workshop -- Workshop Report Issued

In September, the Great Basin Center for Geothermal Energy (GBCGE), the DOE Geothermal Technology Program office (DOE-GTP) and the Geothermal Energy Association (GEA) held a Workshop on Exploration and Assessment of Geothermal Resources, on September 21-22, 2010, in Reno, NV. The 1.5 day workshop of 38 invited geothermal professionals representing a wide variety of industry, government agencies, and academic communities was envisioned as "the first to assess the current state of knowledge regarding existing data and methodologies needed to discover blind or hidden geothermal systems and to characterize known systems with high potential," according to the workshop report.



According to the report:

"The goal was to provide an assessment of where data and technologies stand with regard to exploration, provide input to the "Exploration Best Practices" report being generated at NREL, provide feedback to DOE program managers and their current road-mapping activity, and assess the need for future focused workshops.

"This group of experts had spirited and lively discussions over the day and a half reviewing the existing success of current exploration techniques in Geology and Structure, Geophysics, Remote Sensing, Geochemistry, Temperature Distribution, and Reservoir Characterization. We discussed hurdles and barriers to exploration and established a list of future recommended focused workshops. This report summarizes the significant points and recommendations from the meeting."

The overall recommendations of the workshop report are:

- The Department of Energy (DOE) should set a goal of identifying within the next ten years sites capable of producing 50,000 - 100,000MW of geothermal power (5-10% of total US power generation), utilizing the full range of technologies, through a sustained national exploration effort, significantly supported by long-term federally funded programs.
- There should be a follow-on workshop to specifically examine the lessons learned from exploration efforts in the Great Basin, the applicability of those lessons to other regions, and the steps needed to continue and enhance geothermal exploration in the Great Basin.
- DOE should support active geothermal exploration efforts in other promising geologic regions, including government funded broad-area exploration and resources assessment for undiscovered, blind-systems.
- DOE should support characterization of favorable settings and major parameters (e.g. structural, stratigraphic, geophysical, and geochemical) of known geothermal fields to facilitate discovery of blind (or hidden) systems, as well as expansion of known systems.
- There should be an evaluation and assessment of cost-shared government-industry exploration efforts in the past, and an analysis of the best approach to increase such collaboration in the future and achieve the DOE exploration goal.
- Both industry and the federal government need to recognize that sharing appropriate geothermal resource data is important to advance geothermal energy production and improve the scientific underpinning of geothermal exploration.
- DOE has in the past validated exploration techniques, and should resume its efforts in this area to help define which ones work best in different geologic settings and in what combinations.

For a PDF copy of the workshop report, email Alison Holm of GEA at Alison@geo-energy.org.

White House Considers Cutting Energy Program

In an October 25 memo, White House advisors including outgoing National Economic Council Director Lawrence Summers, energy policy czar Carol Browner and Ron Klain, chief of staff to Vice President Joe Biden questioned the funding for a federal loan-guarantee program for renewable energy projects. But, they said, pulling money from the program would antagonize allies in Congress. White House officials told press some renewable energy projects could move forward without a federal loan guarantee and suggested considering "working with Congress to reprogram" the remaining \$2.5 billion to extend a separate federal program, which allows cash grants in place of tax credits on renewable energy projects.

See <http://online.wsj.com/article/SB10001424052748703506904575592843603174132.html>

GEA Workshop and Members Meeting Examines Climate Change, New Board Members Elected

The GEA held its annual members meeting together with a workshop on climate change in Sacramento on October 23. The program was attended by over 75 participants from GEA companies and related organizations. Participants hear from award winning author Eugene Linden, as well as leading representatives from state and federal government agencies including Dave Mehl, California Air Resources Board, Pablo Gutierrez, Geothermal Program, California Energy Commission, Danielle Osborn Mills, Center for Energy Efficiency Renewable

Technologies, Kermit Witherbee, BLM, JoAnn Milliken, US DOE, Ryan Mulholland, Department of Commerce, John McKinsey, Stoel Rives and John Pierce, Wilson Sonsini Goodrich & Rosati.

GEA thanks all of the speakers in the workshop for their participation!

After the workshop program, Karl Gawell, GEA's Executive Director gave an overview of GEA's accomplishments in 2010, and GEA held elections for open seats on its Board of Directors. Halley Dickey of TAS, Tom King of US Renewables Group, Curt Rich of UTC and Ann Robertson-Tait of GeothermEx were all elected to the GEA Board.

State News

Alaska: Electric Co-op Seeks Bankruptcy

Naknek Electric Association filed for Chapter 11 bankruptcy reorganization on September 29 due to unexpected costs and other problems associated with drilling at their geothermal energy project site. The company cited assets of \$10 million to \$50 million and liabilities in the same range. One source of unexpected costs was a state ruling that deep geothermal holes were subject to regulation as oil and gas wells. The well was completed to a depth of 10,433 feet and found what could be a viable hydrothermal system for generating power. The company now hopes to raise \$1.5 million by November 1 in order to complete additional work on its G-1 geothermal well.

See <http://apps1.eere.energy.gov/geothermal/projects/projects.cfm/ProjectID=54>
<http://www.petroleumnews.com/pntruncate/956116467.shtml>

California: Voters Defend State's 2006 Response to Climate Change: Proposition 23 Garners Falls at the Polls with Over 60% Opposition

John McCaull, GEA Western States Representative

November 4, 2010. When Governor Schwarzenegger signed [AB 32 \(the California Global Warming Solutions Act\)](#) into law in 2006, he said he "wanted to make California No. 1 in the fight against global warming. This is something we owe our children and our grandchildren." Four years later, the voters of California handed the Governor an endorsement of his 2006 decision by handily rejecting Proposition 23 on the November 2010 ballot. Prop. 23 would have undone what is arguably Schwarzenegger's single greatest policy accomplishment in his 7 years as Governor: establishing a comprehensive program to reduce California's greenhouse gas emissions to 1990 levels by 2020.

[Proposition 23 \(the California Jobs Initiative\)](#) was very short in its language, and very clear in its potential impact: the measure would have suspended AB 32 "until such time as the unemployment rate in California is 5.5% or less for four consecutive calendar quarters." The reasons the "Yes on 23" campaign gave for their measure is that "complying with AB 32 will cost Californians billions of dollars with massive increases in the price of gasoline, electricity, food and water, further punishing California consumers and households."

The qualification of Proposition 23 for the November ballot -- and the desire to see AB 32 "suspended" or eliminated -- was foreshadowed by the creation of the [AB 32 Implementation Group](#) in 2007 by the California Chamber of Commerce, the California Manufacturers and Technology Association, the Western States Petroleum Institute and many other business groups. Although the mission statement of the Group is to be "a constructive voice in the process to implement AB 32...and ensure that the greenhouse gas emission reductions required are achieved while maintaining the competitiveness of California businesses and protecting the interests of consumers and workers", this coalition also formed the natural base of supporters for Prop. 23.

The Achilles heel of the "[Yes on 23](#)" campaign was the public perception that the measure was primarily a ploy by the out of state oil industry to thwart California's strong environmental standards. Of the over \$10 million raised in support of Proposition 23, \$1 million was contributed by the Koch Industries -- who helped start the Tea Party movement, and almost \$7 million came from two Texas oil companies, Tesoro and Valero. These companies became the poster children for the successful "[No on 23](#)" campaign theme of stopping the "Texas oil companies' dirty energy proposition."



Governor Schwarzenegger wasted no time in defending his 2006 decision to support AB 32. He and George Schultz were early leaders of the No on 23 campaign, which eventually gained the support of the likes of President Obama, Al Gore and Bill Gates. As [Grist](#) reported in a recent article, the No on 23 campaign raised a whopping \$31 million, "through the fundraising prowess of... national environmental groups, Silicon Valley venture capitalists and tech giants, hedge fund managers, old economy businesses, and environmental justice activists."

Over the last 4 years, the Schwarzenegger administration has invested millions in developing the AB 32 Climate Change Scoping Plan, and adopting numerous regulations and programs designed to cut greenhouse gas reductions. In "applauding" the voters for their decision to reject Proposition 23, the [Governor issued the following statement](#):

"The effort to suspend AB 32 was the work of greedy Texas oil companies that wanted nothing more than to keep polluting our state. Today, California voters saw through the smokescreen of these dirty oil companies and rejected their attempts to move our state backwards.

"In California, we are going to continue moving forward with our comprehensive energy policy that creates jobs, reduces our reliance on foreign oil and ensures the California we love will be the California we hand over to the next generation.

"Bold and innovative policies like AB 32 have made California a world leader in renewable energy, green jobs and environmental protection."

California: Case Against SDG&E's Sunrise Powerlink Dismissed

The lawsuit to stop construction of SDG&E's Sunrise Powerlink transmission line was dismissed by U.S. District Judge Michael Anello when Boulevard resident Donna Tisdale was not able to sufficiently explain why development of the 117-mile power line through the McCain Valley would hurt her, leading to lack of standing for other groups with similar complaints. Tisdale said she used the lands that would be destroyed for "recreational and spiritual activities." It was ruled that this was not sufficient cause to stop construction.

See <http://www.signonsandiego.com/news/2010/nov/02/lawsuit-to-stop-sdges-sunrise-powerlink-dismissed/>

Hawai'i: Big Island Supports Geothermal Energy Development

Geothermal energy has had opposition in Hawai'i in the past, where many indigenous people see the islands' volcanoes as sacred, but an article on [hawaiiibusiness.com](#) calls a current resurgence in the renewable energy sub-industry a "second chance." Geothermal supplies 20% of the electricity to the Big Island of Hawai'i, and Big Island Mayor Billy Kenoi told press he hopes it will help his county become the first in the state to get half its energy from renewable sources.

See <http://www.hawaiiibusiness.com/Hawaii-Business/November-2010/Geothermal-039s-Second-Chance/>

International News

Canada: Borealis Geopower wins BC Geothermal Tenure

Borealis Geopower announced that its bids on 3 tracts were successful under British Columbia Geothermal Rights Public Tenure Auction.

According to the Borealis Geopower web site, "Our plans are to proceed with the development of the property, culminating in commissioning a geothermal power plant. This is an endeavor with a wealth of interested parties and stakeholders. We are currently in the process of working towards identifying the relevant geothermal potential of the 3 permit areas and converting them from 1 year development permits into multi-year development leases. We are very pleased to be able to move forward with geothermal energy development in British Columbia and want to thank our key stakeholders in the Valemount Area for all their support."



"We hope that this successful parcel auction will lead to an increased interest in the development of geothermal power in British Columbia" said Brian Toohey, CanGEA Board Director in a statement.

See <http://www.borealisgeopower.com/>
<http://www.digitaljournal.com/pr/150333#ixzz1498mPphX>
<http://www.offshore-oil-and-gas.gov.bc.ca/Titles/OGTitles/geothermal/Pages/SaleResultsOctober2010.aspx>

New Zealand: Taupo Power Station a \$1b Investment

Contact Energy has received approval for the Tauhara geothermal power station in Taupo, with final approval expected before Christmas. The power plant is expected to add \$1 billion in investments to the region and would meet the electricity needs of 270,000 homes. The plant could be operational by 2015.

See [http://www.radionz.co.nz/news/business/60957/power-station-a-\\$1-billion-investment](http://www.radionz.co.nz/news/business/60957/power-station-a-$1-billion-investment)

Geothermal Heat Pumps and Direct Use



Geothermal System Installation Underway at Colorado Capitol Building

The State Capitol building in Denver, Colorado is expected to save around \$95,000 a year in energy costs in the first year alone with the installation of its new geothermal heating and cooling system. The first phase of installation began last month and will continue through spring 2011. The \$6 million project received a \$4.6 million grant from the DOE, \$1.4 million in state certificates, and a lease-purchase agreement with Chevron Energy Solutions. Colorado Governor Bill Ritter said: "By tapping into the steady temperature below the earth's surface, we will be able to heat and cool the Capitol building with a reliable and clean source of renewable energy at a reduced cost to the people of Colorado."

See <http://www.brighterenergy.org/18810/news/heat-efficiency/colorado-capitol-building-taps-into-geothermal-heat/>



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

Notices

New This Week

BLM Releasing CO Study of Geothermal Energy Impact

The U.S. Bureau of Land Management will release its study of the environmental impact of geothermal energy development on two blocks of land in southeastern Gunnison County in western Colorado. The study to be released Thursday examines the effects of tapping into geothermal energy on 4,586 acres of BLM land and 400 acres of private land, along with 3,765 acres of forest land. Both blocks are near Tomichi Dome and the Waunita Hot Springs. The BLM will accept public comment until Dec. 4.

The BLM is offering the first geothermal lease on federal land in Colorado Nov. 10. The proposed lease is on 799 acres near Mount Princeton Hot Spring Resort in Chaffee (CHAY'-fee) County. Geothermal plants tap into hot water beneath the surface to turn turbines to generate electricity.

Air Resources Board Public Hearing on Amendments to the Regulation for Mandatory Reporting of Greenhouse Gas Emissions (December 16)

The Air Resources Board will conduct a public hearing to consider the Amendments to the Regulation for Mandatory Reporting of Greenhouse Gas Emissions.



This notice, the ISOR and all subsequent regulatory documents, including the FSOR, when completed, are available on ARB's website for this rulemaking at: <http://www.arb.ca.gov/regact/2010/ghg2010/ghg2010.htm>

Inquiries concerning the substance of the proposed regulation may be directed to the designated agency contact persons, Mr. Doug Thompson, Manager of ARB Climate Change Reporting Section, Planning and Technical Support Division at (916) 322-7062, or Mr. Patrick Gaffney, Staff Air Pollution Specialist, at (916) 322-7303.

SUBMITTAL OF COMMENTS Interested members of the public may also present comments orally or in writing at the meeting, and comments may be submitted by postal mail or by electronic submittal before the meeting. The public comment period for this regulatory action will begin on November 1, 2010. To be considered by the Board, written comments, not physically submitted at the meeting, must be submitted on or after November 1, 2010 and received no later than 12:00 noon on December 15, 2010, and must be addressed to the following: Postal mail: Clerk of the Board, Air Resources Board 1001 I Street, Sacramento, California 95814 Electronic submittal: <http://www.arb.ca.gov/lispub/comm/bclist.php>

Current Notices

GEA Conducting Survey on Web Site Functionality

Posted 8/2010: GEA's web site, www.geo-energy.org has ongoing updates meant to provide you with accessible reports, information, links, and more.

We are aware of some glitches on our site — for example; there are some inconsistencies in viewing from different browsers. We are working on this; please help us solve any additional problems. Let us know:

- Have you run into any problems on GEA's site?
- Have you come across any antivirus warnings?
- Have you had any problems accessing files or links?
- Have you noticed any out-of-date information?
- Please report problems to Leslie Blodgett, leslie@geo-energy.org

Many thanks for your help! Recent updates to www.geo-energy.org include:

- Updates to Developing Projects and Power Plant information
- Video on YouTube
- Photos on Flickr
- Member Access includes presentations from all GEA events
- Member Data base searchable by field and location
- Notices, Jobs, and Proposals listed in the GEW are now also updated each week to the site.

DOE Draft Geothermal Market Report 2009 Available for Comment

US DOE has prepared a draft report on the US geothermal market in 2009. A PDF of the report and a submission form for comments is available at: <http://www1.eere.energy.gov/geothermal/plans/comments.cfm?doc=market>.

The draft *Geothermal Market Report 2009, Building Blocks for a \$50 Billion Industry* addresses the following issues:

- Chapter 1 addresses the industry's current state, including development activities, infrastructure and its financial health.
- Chapter 2 discusses advanced technologies, including Enhanced Geothermal Systems (EGS), which has been a central theme in U.S. government programs but has seen little commercial activity. These technologies will be important for the industry to reach its potential. The chapter also discusses investment trends in new technologies to support industry advancement.
- Chapter 3 covers international development activities and cross-border commercial opportunities, including import/export drivers for U.S. companies.

- Chapter 4 provides background on U.S. government programs that support the industry and are critical to its growth and success.
- Chapter 5 highlights key companies in the geothermal industry, including players across the value chain and risk spectrum.

Employment



New This Week

Geothermal Field Technician, Nevada Geothermal Power

The 'Geothermal Well field Technician/Coordinator' is a US based job with the successful candidate required to be living in Reno or Winnemucca. He/she will assist the NGP Field Operations Manager with the efficient execution of well field activities including drilling location construction, inventory management, well testing and downhole logging. They will coordinate and supervise on site subcontractors, maintenance and monitoring activities to ensure company drilling objectives and safety standards are met.

- Production/injection well drilling duties but not limited to: a) location construction, b) inventory management, c) well testing and d) well logging
- Maintenance of NGP owned ancillary equipment and related material inventory
- Geothermal well (production and injection) inspection, maintenance and monitoring activities
- Operates in a safe in efficient manner
- Assistance with routine line shaft pump maintenance and change outs
- Data acquisition and monitoring as necessary
- Coordinate / supervise subcontractors including but not limited to: a) well service crews, b) well loggers c) welders e) truck and crane crews f) water haulers etc.
- Act as a role model for other well field personnel

Requirements:

- Demonstrated ability to work both independently and as part of a diverse team
- Familiar with geothermal well drilling or Oil and Gas operations and maintenance is preferred but not required.
- Experience with computers and Microsoft office.
- Experience with handheld GPS systems
- Ability to meet deadlines without compromising accuracy and completeness of work
- Experienced in the operation and general maintenance of medium to large equipment (i.e. crane, forklift, diesel generators, large volume water pumping equipment etc.)
- Current Drivers License
- US Passport
- Forklift certification (highly recommended)
- Ability to travel domestically and internationally for extended periods of time
- Ability to lift up to 75 lbs and stand /walk for up to 80% of the day
- Ability to work outdoors in remote environments

The Company offers excellent health benefits, competitive remuneration, and opportunities for career advancement in an exciting field of endeavor. No phone calls please. Only qualified candidates will be contacted for an interview.

Email resumes to: careers@nevadageothermal.com Fax resumes to: 604-688-5926

Employment Opportunities

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

Geothermal Faculty, Tenure Track, Dedman College, SMU (October 1 or until filled)

Contact: Professor Brian Stump, Search Committee Chair, Department of Earth Sciences, Southern Methodist University, PO Box 0395, Dallas TX 75275 or to sschwob@smu.edu. A PhD is required at the time of appointment. The start date is August 1, 2011.

Senior Level Assistant Site Manager, Operations and Maintenance

Contact: Richard@mrspokane.com or call 509-340-2852 Ext. 18

Senior Principal Geothermal Geologist – Brisbane, Australia

Shane Stevens / Talent Search Team Manager, Origin

Email: Shane.stevens@originenergy.com.au Phone: +61 00 11 73858 0237

GIS Specialist, Nevada Geothermal Power, Reno, NV

Please send resumes to careers@nevadageothermal.com

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.

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
(updated 8/20/10)

Development Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668
(updated 8/20/10)

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com



Requests for Proposals

Closing This Week

Climate Data Record Program, Commerce, NOAA (November 10)

The U.S. Department of Commerce, NOAA, requests proposals for the Climate Data Record Program. This program seeks to support the development and stewardship of Climate Data Records for the atmosphere, cryosphere, oceans, and land surface. \$2.5 million expected to be available, up to 15 awards anticipated. Letters of Interest due 9/15/10, final proposals due 11/10/10. For more info, contact Linda Statler at Linda.S.Statler-at-noaa.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=56019>. Refer to Sol# NOAA-NESDIS-NESDISPO-2011-2002566. (Grants.gov 11/10/10)

DOE Announces First National Geothermal Student Competition (November 12)

Press Release, October 18 — The U.S. Department of Energy (DOE) today announced the launch of its inaugural National Geothermal Student Competition. DOE, through its [Geothermal Technologies Program](#) (GTP), will provide up to \$100,000 to fund as many as 10 collegiate teams that will participate in this competition. In this intercollegiate competition—the first ever to address geothermal education—student teams will be challenged to advance their understanding of geothermal energy’s potential as a significant contributor to our nation’s energy portfolio. Geothermal technology allows for consistently produced energy by tapping into the heat of the earth and emits minimal greenhouse gases. Expanding the use of geothermal resources as a domestic energy source will play an important role in increasing America’s energy independence.

The National Geothermal Student Competition will require student teams to conduct extensive research on the geothermal energy potential of the Rio Grande Rift geologic province located in southeastern Colorado and northeastern New Mexico. Each team will produce sets of data that assess a suite of geologic, engineering, environmental, land use, policy and cultural issues that are crucial to future geothermal development in the United States. The Rio Grande Rift is a high potential, but relatively undeveloped, geothermal region that is representative of the geothermal potential in other areas in the United States.

The National Geothermal Student Competition is open to all colleges, universities and other post-secondary institutions in the United States. To participate in the competition, teams should submit proposals through DOE’s [National Renewable Energy Laboratory](#) Request for Proposals link on its [Business Opportunities](#) Web page. Up to 10 teams will be selected to participate based on a competitive review of the proposals. Proposals are due November 12, 2010.

See http://apps1.eere.energy.gov/news/progress_alerts.cfm/pa_id=421.

New This Week

Alaska Fairbanks North Star Borough Offers \$1m Matched-Funds Grant

Alaska’s Fairbanks North Star Borough is putting out a \$1 million grant through the Department of Energy for geothermal energy exploration for the proposal venture that can provide matching funds. Former Mayor Jim Whitaker initiated the request based on positive results of deep well testing 50 years ago. Luke Hopkins, Mayor of Fairbanks North Star Borough said researchers at the University of Alaska Fairbanks have shown interest. The goal is to find out whether the university’s existing power plant could be replaced with a geothermal power plant.

See <http://www.azocleantech.com/details.asp?newsID=12786>

Fairbanks North Star Borough <http://www.co.fairbanks.ak.us/>

PDF: <http://co.fairbanks.ak.us/Meetings/Ordinances/2010/2010-20-1o.pdf>

Renewable Energy Proposals, NV Energy (December 15)

Press Release, LAS VEGAS, November 4 — NV Energy (NYSE: NVE) is requesting bids for short-term renewable energy resources that can be delivered on or after Jan. 1, 2011, and for a period of one month up to three years. Bids are due Dec. 15, 2010.

NV Energy is open to three different types of short-term renewable energy offerings:

- * Renewable energy bundled with all of its respective portfolio energy credits;
- * An exchange of non-renewable energy from NV Energy for renewable energy; and
- * Biogas that can be transported to NV Energy's power plants for electricity production.

NV Energy will accept offers of renewable energy structured as monthly shaping and firming transactions, which will allow renewable suppliers greater flexibility in their respective bid proposals.

Parties interested in submitting a response to the RFP can find more information at www.NVEnergy.com/shortRFP

This is the third renewable resource solicitation released by NV Energy in 2010, as the company continues its efforts to secure a renewable portfolio standard of 20 percent by 2015 and 25 percent by 2025. Currently, NV Energy customers benefit from 44 separate geothermal, solar, biomass, small hydro, wind, and waste-heat recovery projects that are either in commercial operation or the project-development stage. The company's current renewable energy portfolio includes more than 1,200 megawatts.

USTDA-Sponsored Indonesia Geothermal Power Training Program Is Offering Business Development Opportunities for U.S. Companies

January 10 – February 11, 2011

www.indonesiageothermal.govtools.us

The United States Trade and Development Agency (USTDA) is sponsoring an in-country Indonesia Geothermal Power Development Training Program from January 10 to February 11, 2011, followed by a Reverse Trade Mission of Indonesian delegates to the U.S. in March 2011. The Indonesian government is seeking to expand its current geothermal power generation capacity of 1,100 MW to 9,500 MW by 2025 and has vested all responsibilities for geothermal resource development with the provincial authorities and local tendering committees. The USTDA-sponsored program is aiming to train these decision-makers in geothermal resource development and transparent tendering processes, while promoting U.S. geothermal business interests in Indonesia.

The Training Program will be delivered by U.S. technical experts at six different locations in Indonesia, identified with the greatest potential for business development. USTDA is offering a unique opportunity for U.S. companies to visit these training sessions and present on their company's products / services and successful projects – to an exclusive audience of decision-makers.

Also, an Opening Event with welcome reception and dinner is scheduled in Jakarta on Friday, January 14, 2011, where U.S. companies will have an opportunity to meet and network with the central and local Indonesian authorities from across various provinces, registered for the Training Program.

This is a chance to build a relationship and highlight your company to the local authorities! For more information on participation and/or sponsorships, please contact Andrew Graves at agraves@bcs-hq.com or 410.997.7778 ext. 234.

Note: Participation at and/or sponsorship of all USTDA events is limited to U.S. Firms, U.S. individuals or U.S. companies, each as defined under (www.ustda.gov).

Proposal Announcements

Partner Sought for Hot Oil and Gas Wells, Mississippi

Rich McAdoo (rlmcdoo@continentalenergy.com) is seeking local operators or parties with access to properties with hot oil or gas wells (shut-in or production) located in Mississippi. If you are looking for a financial and technical partner to develop coproduction of geothermal fluids with oil and gas in Mississippi, send him an email.

Call for Geothermal Exploration Proposals, Neuquén, Argentina

The Government of the province of Neuquén, Argentina has issued a call for geothermal exploration proposals in the Domuyo area, located 560 km from the capital city of the Province of Neuquén. The exploration contract allows exploitation of the minerals discovered for a period of up to 25 years. The successful bidder may request to receive the promotional benefits and incentives. The documentation containing the terms and conditions is on sale, and a non-commercial copy is available on the agency's web site. To request additional information, please contact the Agency: info@adinqn.gov.ar or the Vice Presidency of ADI-Nqn: Igalardi@adinqn.gov.ar; Phone: +54 299 4494749; Mobile: +54 9 299 5552842 - www.adinqn.gov.ar

A 7thspace.com article provides more background on the area: see http://7thspace.com/headlines/355477/geothermal_energy_national_and_international_public_call_for_domuyo_project_neuquen_province.html.

Power Forecast, Haiti, TDA

The U.S. Trade and Development Agency announces its intent to request proposals to provide technical assistance to forecast future power demand in Haiti and assist governmental and private sector entities in Haiti in developing a strategy to generate, transmit and distribute power to both urban and rural areas, to encourage Haiti's recovery from the disastrous earthquake and to fuel economic growth. The assistance will include the identification, assessment and quantification of renewable energy options such as wind, solar and biomass. \$800K expected to be available. For more info, contact Jason Bell at jbelle@ustda.gov or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=381bf13f574e4baee474468a6f994556&tab=core&_cview=0. Refer to Sol# CO2010510006. (FBO 6/5/10)

Manufacturing and Construction Machines and Equipment

The National Science Foundation requests proposals for Manufacturing and Construction Machines and Equipment. This program supports fundamental research leading to improved machines and applications for both manufacturing and construction. Key goals are to advance the transition of these industries from skill-based to knowledge-based activities and to develop them as activities with minimal environmental and societal impact. Research projects addressing renewable energy have been awarded in 2010. \$300K expected to be available. For more info, contact George Hazelrigg at ghazelri@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13346. Refer to Sol# PD-10-1468. (Grants.gov 8/20/10)

Climate Change and Health, HHS

The U.S. Department of Health & Human Services requests proposals for Climate Change and Health: Assessing and Modeling Population Vulnerability to Climate Change. This RFP encourages research of risk factors of populations that lead to or are associated with increased vulnerability to exposures, diseases, and other adverse health outcomes related to climate change. For more info, including funding and program contacts, go to: <http://grants.nih.gov/grants/guide/pa-files/PAR-10-235.html>. Refer to Sol# PAR-10-235. (Grants.gov 7/21/10)

Energy Production with Innovative Methods of Geothermal Heat Recovery, DOE (November 30)

From DOE:

Funding Opportunity Announcement Number: DE-FOA-0000336

Announcement Type: Initial

CFDA Number: 81.087

Issue Date: 08/19/2010

Pre-Application Due Date: 10/01/2010, 11:59 P.M. Eastern Time

Full Application Due Date: 11/30/2010, 11:59 P.M. Eastern Time

REGISTRATION AND APPLICATION SUBMISSION REQUIREMENTS

Registration Requirements: Allow at least 21 days to complete registrations.

To submit an application under this announcement, complete the following registrations:

1. Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, at <http://fedgov.dnb.com/webform>.
2. Register in the Central Contractor Registration (CCR) system, at <https://www.ccr.gov/>. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in CCR registration. These items are needed to submit applications in Grants.gov. Update your CCR registration annually.
3. Register in Grants.gov at <http://www.grants.gov/>. See the Organization Registration User Guide at <http://www.grants.gov/assets/OrgRegUserGuide.pdf>. The Applicant User Guide is at <http://www07.grants.gov/assets/ApplicantUserGuide.pdf>.
4. Register in FedConnect at <https://www.fedconnect.net/>; use "Register as a Vendor" link. To create an organization account, your organization's CCR MPIN is required.

Where to Download the Application Package:

Download the Application Package for this announcement at <http://www.grants.gov/>. Click on the "Apply for Grants" link; then, click on the "Download a Grant Application Package" link and follow the instructions. Insert the announcement number to download the Application Package.

Where to Submit the Application Package:

Applications must be submitted through Grants.gov to be considered for award. Follow instructions in the User's Guide for application submissions. Applicants are responsible for verifying successful transmission, prior to the Application due date and time.

Where to Ask Questions About the Funding Opportunity Announcement Content:

To ask questions about the Funding Opportunity Announcement, use FedConnect at <https://www.fedconnect.net/>. You must be a registered user in the system and submit questions by sending messages in your FedConnect email box. Part VII of this announcement explains how to submit questions to the Department of Energy (DOE).

Where to Submit Questions About the Registrations or Systems:

DUNS & Bradstreet: govt@dnb.com

Central Contractor Registration (CCR) system: <https://www.bpn.gov/ccr/contactccr.aspx>, By phone: 866-606-8220 or 334-206-7828 (8:00 A.M. to 8:00 P.M., Eastern Time)

Grants.gov: support@grants.gov, By phone: 1-800-518-4726 (7:00 A.M. to 9:00 P.M., Eastern Time)

FedConnect: support@FedConnect.net, By phone: 1-800-899-6665 (8:00 A.M. to 8:00 P.M., Eastern Time)

Industry/University Cooperative Research Centers (February 2, 2011)

The National Science Foundation requests proposals for Fundamental Research Program for Industry/University Cooperative Research Centers. This program provides support to centers to conduct fundamental research to better position themselves as leaders in emerging areas that could benefit the industries that they serve. Areas of interest include, but are not limited to: Energy and the Environment; and Advanced Manufacturing. \$1.6 million expected to be available, up to 10 awards anticipated. Responses due 2/2/11. For more info, contact Rathindra DasGupta at rdasgupt@nsf.gov or go to: <http://www.nsf.gov/pubs/2010/nsf10601/nsf10601.htm>. Refer to Sol# 10-601. (Grants.gov 8/17/10)



Events

GEA Events

GEA Calendar of Events for 2011

February 9, 2011 — GEA Geothermal Energy Finance Forum, New York, NY

March 7-10, 2011 — Renewable Energy World North America Conference and Expo, Tampa, FL

May 4-5, 2011 — GEA Geothermal New Technologies and Applications Showcase and Forum and Member's Meeting, Washington, DC

July 20, 2011 — GEA Geothermal Energy Finance Forum, San Francisco, CA

October 23-26, 2011 — GEA Geothermal Energy Expo® and GRC Annual Meeting 2011, San Diego, CA

Look for more information on these upcoming events at <http://geo-energy.org/events.aspx>.

For sponsorship and speaking opportunities, or if you have other questions, contact Kathy Kent at Kathy@geo-energy.org.

Why Should You Attend GEA Events?

As the national trade association for the geothermal industry, the Geothermal Energy Association (GEA) strives to create and deliver educational events involving the full range of the geothermal industry, reflecting the dynamic growth of the geothermal market, and communicating the benefits of geothermal energy to all. GEA events offer important opportunities to learn and network within the geothermal community, and to inform and educate companies and organizations outside today's industry that are interested in learning more about geothermal energy. The revenue generated from GEA events is used to advance the goal of the GEA, "to expand the production and use of geothermal energy in the United States and around the world." The revenue supports GEA's workshops and events, communications activities, outreach efforts, policy related activities and analysis, internet publications, and other initiatives designed to help achieve this goal. ONLY GEA puts your dollars to work in all of these ways to advance the future of the geothermal energy industry. And, GEA does not sell your email or postal address to junk mailers or spammers.

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

Other Events

5th International Conference on Renewable Energy Investments, Chile (November 9–11)

On November 9th - 11th, the Ministry of Energy, the Chilean Economic Development Agency and the Center for Renewable Energy will hold the 5th International Conference on Renewable Energy Investments. For more information please visit the conference website: www.chilerenewables.com

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

Australian Geothermal Energy Association
<http://www.ausgeothermal.com/>

Geothermal Investment Forum and Networking Event, CanGEA, Calgary, AB (December 2)

Geothermal Investment Forum and Networking Event (December 2nd, 2010 – Calgary, AB), Calgary Geothermal Power Investment Workshop and Networking Reception. CanGEA is proud to host, geothermal developers, investors, energy companies and policy makers, to explore advances and opportunities in the industry. See <http://www.cangea.ca/events/>.

GeoPower Europe, European Geothermal Energy Council, Paris, France (December 8–9)

For the current agenda and to register, visit

<http://www2.greenpowerconferences.co.uk/EF/?sSubSystem=Prospectus&sEventCode=GE1012FR&sSessionID=8ae2803966ed82ae2265bfed68f83b92-1060598>.

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/>

GEOTHERMAL ENERGY WEEKLY

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

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209 Pennsylvania Avenue SE, Washington, D.C. 20003

Phone 202-454-5261 Fax 202-454-5265

leslie@geo-energy.org

