



**This Week
August 5, 2010**

National News..... 2

- Sen. Tester Introduces S.3619 to Improve Geothermal Technology3
- Senate Redirects \$1.5b of Loan Guarantee Funding To Education and Health Care.....3
- Energy/Oil Spill Bill Sees Further Delay3
- GEA Las Vegas Utilities Workshop Attracts Geothermal Newcomers.....4

Company News..... 4

- Ormat Technologies: Three Geothermal Projects Secured in \$350m Funding Deal.....4
- Ormat Technologies: Company Becomes Sole Owner of the Mammoth Complex5
- Ormat Technologies: Second Quarter 2010 Results Announced.....5
- Ram Power: Release Date for 2010 Second Quarter Results Announced6

Renewable Energy and Climate Change..... 6

- Western Climate Initiative Outlines Regional Cap and Trade Program.....6

State News 7

- California: Simbol Mining to Extract Lithium Resources from Salton Sea7
- Maine: FAA Supplies \$2.5m Grant for Geothermal System at Portland Jetport7
- Nevada: GBC to Receive \$1m for Geothermal System Enhancements7

International News..... 7

- Germany: Geothermal ORC Plant to Supply District Heating Network7
- Indonesia: Tata Power Shortlisted for 200-MW Sumatra Geothermal Project8
- Nicaragua: IDB Approves \$40m Loan for San Jacinto-Tizate Expansion8
- Philippines: EDC to Invest \$1b in Greenfield Projects Over 5 Years9
- Philippines: APC Group to Finalize \$300m Geothermal Power Plant Venture.....9

Geothermal Heat Pumps and Direct Use Applications..... 9

Viewpoint on the News 9

- Iceland: Magma’s Investment in Economy Threatened9

Notices..... 10

- Closing This Week10
- Call for Abstracts: Renewable Energy World Conference (August 6)10

Current Notices..... 11

- Los Angeles Department of Water and Power Integrated Resource Plan Open for Comment..... 11
- New Book Provides Case Studies on Geothermal Energy Topics..... 11
- Colorado Geothermal Working Group Presentations Posted on New Group Site..... 11
- Geothermal Power Plant Technician Program in Iceland..... 11
- California Transmission Planning Group Releases Phase 2 Study Plan..... 12

Employment..... 12

Employment Opportunities 12

- GIS Specialist, Nevada Geothermal Power, Reno, NV 12
- Vice President Geology, Western US..... 12
- Geothermal Openings, NREL, Boulder, CO..... 12
- Drilling Manager, NV..... 12
- Geophysicist, Calpine, The Geysers, CA..... 12
- Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID..... 13
- Project Manager..... 13
- Project Manager Geothermal Exploration, Europe..... 13

Requests for Proposals..... 13

Closing This Week..... 13

- Greenhouse Gas Reporting Systems, EPA (August 9) 13
- Rural Cooperative Development, DOA (August 9)..... 13

Added This Week..... 13

- Southern California Edison Seeks Renewable Energy Contracts 13
- NV Energy Seeks Offers for Renewable Energy Credits (September 22)..... 14

RFP Announcements 14

- Power Forecast, Haiti, TDA..... 14
- Sustainable Communities, HUD (August 23)..... 14
- Community Environmental Demonstration Projects – Alaska (September 9)..... 14
- Greenhouse Gas Mitigation, Indonesia (September 15) 14
- Black Carbon, Climate and Air Quality (September 22) 15
- Environmental Scientist Award, Health and Human Services (September 30) 15
- U.S. DOE Office of Science (September 30)..... 15
- Power, Controls and Adaptive Networks, NSF (October 7)..... 15
- Works Procurement Notice, Drilling Of Geothermal Wells in Roseau Valley, Commonwealth of Dominica (October 25) 15

Events..... 16

Happening This Week 16

- CanGEA's Third Annual Conference & Trade Show, CanGEA, Vancouver, BC, (August 8–10)..... 16
- Public Meeting, Desert Renewable Energy Conservation Plan, Ontario, CA (August 11)..... 16

GEA Events 17

- GEA Annual Members Meeting and Policy Workshop, Sacramento, CA (October 23)..... 17
- GEA Geothermal Energy Expo and GRC Annual Meeting, Sacramento, CA (October 24-27)..... 17
- Geothermal Energy Expo Sponsorship Opportunities 18
- GRC Annual Meeting and GEA Geothermal Energy Expo® Mutual Sponsorships 2010..... 19
- Why Should You Attend GEA Events?..... 21

Other Events..... 21



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



National News

Sen. Tester Introduces S.3619 to Improve Geothermal Technology

On July 20 Senator Tester (D-MT) introduced S.3619 – “A bill to amend the Energy Independence and Security Act of 2007 to improve geothermal energy technology and demonstrate the use of geothermal energy in large scale thermal applications, and for other purposes.” The legislation would direct grants from the DOE to help state and local governments, universities, nonprofits and manufacturers in their development of geothermal energy technology through research and development of new equipment and methods.

“It’s time we spark innovation to develop these kinds of technologies that will create jobs in Montana and help secure American’s energy future,” Tester said in a statement. “Almost no other state can match Montana’s potential when it comes to renewable energy development. I’m going to keep fighting to make sure we reach that potential and rebuild Montana’s economy with energy jobs.”

The bill states that the Geothermal Technologies Program of DOE focuses on direct use of geothermal energy in the low-temperature geothermal energy subprogram and that the Building Technologies Program focuses on energy demand and energy efficiency, including geothermal heat pumps. It states that geothermal heat pumps and direct use of geothermal energy, especially in large-scale applications, can make a significant contribution to the use of renewable energy but are underrepresented.

The bill seeks to improve the components, processes, and systems used for geothermal heat pumps and the direct use of geothermal energy and to increase the energy efficiency, lower the cost, increase the use, and improve and demonstrate the applicability of geothermal heat pumps and the direct use of geothermal energy.

See <http://www.opencongress.org/bill/111-s3619/show> and http://www.votesmart.org/speech_detail.php?sc_id=580415.

Senate Redirects \$1.5b of Loan Guarantee Funding To Education and Health Care

As an emergency measure, a \$26 billion state aid bill passed by the Senate in a 61 to 39 vote. The bill also impacts \$1.5 billion of funds set aside for renewable energy loan guarantees which were redirected to help state education and health programs facing imminent job cuts. The renewable funds, as well as others redirected from programs such as the Park Service and the Department of Defense, were used to offset the costs of the emergency bill. Reducing its deficit impact was critical to obtaining the vote needed in the Senate for passage.

Senate Majority Leader Harry Reid said that the Department of Energy was slow in getting the funds out to the loan guarantee programs where they will eventually meet their mark. "They have been, in my opinion, very, very slow in putting that money out," Reid said. "DOE has huge amounts of money they have not spent. ... There is no way with the way things have been working they are going to miss that billion and a half," he said.

Reid told press he cleared the offset with House Speaker Nancy Pelosi (D-Calif.) and had spoken with DOE before the vote. He added that the loan guarantee program funding would be replaced: "That money is just temporarily gone... We are going to take care of that," he said.

"This loan guarantee program is critical for many new geothermal and other renewable projects," said Karl Gawell, GEA's Executive Director. "We agree with Senator Reid that DOE has been moving forward with loan guarantees at a snail's pace, but hope the funds for the program are quickly restored. Helping teachers and health care shouldn't have to undercut producing clean energy and creating new jobs. We need all of the above for the economy and country to move forward."

See <http://www.eenews.net/pm/>.

Energy/Oil Spill Bill Sees Further Delay

Senate Democrats have again postponed a vote on an energy bill, which has become mostly an oil spill bill. The plans now are to return to the issue in September after the August congressional recess.

When they return, Democrats are likely to make some changes to the bill, though how many is unclear, as they attempt to formulate legislation that will win the necessary 60 votes needed for passage. Meanwhile many different energy interest groups continue working to affect its direction. Some of the key struggles over the recess

include efforts by energy majors pushing for the Senate to reconsider removing caps on liability for companies that cause oil spills, environmental groups urging support for a cap on carbon-dioxide emissions, and renewable groups working for a renewable electricity standard and tax credit extensions.

In the view of some Washington observers, the odds of any significant energy bill passing this year seem long, but the Senate Leadership has been leaving open the door to finding a way to 60 votes.

See <http://www.nytimes.com/gwire/2010/08/05/05greenwire-fallout-begins-after-senates-failure-to-act-on-54000.html> and <http://online.wsj.com/article/SB10001424052748703748904575411170816612944.html>.

GEA Las Vegas Utilities Workshop Attracts Geothermal Newcomers

Over 130 hundred representatives from various organizations braved the oppressive Nevada heat to attend the Geothermal Energy Associations (GEA) Geothermal Energy and Utilities, Co-ops and Public Power Workshop on July 22, 2010. The day-long workshop saw attendees and presenters coming from a variety of backgrounds within the geothermal energy industry in order to expound on and learn about the opportunities and obstacles facing the geothermal industry.

The workshop featured 10 different panels addressing a multitude of timely topics from investor and municipally owned utilities to other pertinent subjects such as transmission issues and analytical approaches to geothermal risk assessment. Karl Gawell, GEA Executive Director highlighted the dramatic growth of the industry; panelists on the Federal and State Support for Utilities and Renewables panel highlighted incentives for the development of geothermal energy. Dan Schochet of Ram Power spoke to the transmission developments that are needed to meet the growing need for clean geothermal energy in both Nevada and the greater West. Perhaps just as striking as the multitude of panel topics was the variety of organizations represented at the workshop. Newly developing sectors of the geothermal industry such as hydrocarbon and geothermal co-production companies were represented. State and government officials were represented and provided presentations on how their organizations support geothermal energy. Representatives from developers, law firms, and equipment suppliers also participated in the workshop.

The utility panels highlighted the growing importance of geothermal energy in the region. Dan Chase, Contract Negotiator, Renewable & Alternative Power, Southern California Edison noted that 17% of customers' needs are met with renewable energy, of which 57% is provided by geothermal energy.

While the variety of organizations present at the workshop was significant its most impressive achievement was the number of newcomers in attendance. "It was gratifying to look at the attendance list for this workshop and see companies and organizations that we haven't seen at our events before. That speaks not only to the importance of the workshops focused topic but also the increased recognition of geothermal energy as a viable source of clean renewable energy in Nevada and the region," said GEA Research Associate Dan Jennejohn.



Company News

Ormat Technologies: Three Geothermal Projects Secured in \$350m Funding Deal

Ormat Technologies unit Ormat Nevada has arranged up to \$350 million in a funding deal with John Hancock Life Insurance Company for three geothermal projects under construction in Nevada. John Hancock will arrange construction and term loan facilities under a DOE loan guarantee application.

The McGinness Hills, Jersey Valley and Tuscarora geothermal projects each have a 20-year power purchase agreement with Nevada Power Company of NV Energy, together representing between 60 MW and 120 MW of geothermal electricity generation capacity.

Ormat Technologies CEO Dita Bronicki told press that the funding program "not only is cost effective for Ormat, but also allows us to create numerous 'green' jobs."

See <http://www.globes.co.il/serveen/globes/docview.asp?did=1000578469&fid=1725>.

Ormat Technologies: Company Becomes Sole Owner of the Mammoth Complex

Press Release, August 2 — Ormat Technologies, Inc. is pleased to announce that its wholly owned subsidiary, Ormat Nevada Inc., signed today an agreement to acquire Constellation Energy's 50% stake in the partnership that owns the geothermal power plants at the Mammoth complex for a purchase price of \$72.5 million. Following the acquisition, which also closed today, Ormat will become the sole owner of the land, power plants, and associated equipment comprising the Mammoth complex, including the rights to over 10,000 acres of undeveloped federal lands.

The Mammoth complex is located near Mammoth Lakes, California and includes three plants, which were completed in 1985 and 1990 and have a generating capacity of approximately 29 MW.

"The Mammoth complex has many strong assets, including an experienced operating team running the facility and a high quality geothermal reservoir. As the sole owner of the complex, we plan to move quickly to expand the facility with a goal to double generation capacity," said Dita Bronicki, the Chief Executive Officer of Ormat. "Mammoth offers the same development opportunities that we have exploited in our Steamboat complex, and expect to dramatically increase the capacity of the existing plant through modernization of the equipment and the addition of new equipment with very little resource risk."

Mammoth Pacific, LP, was previously accounted for under the equity method and will be consolidated in our consolidated financial statements following the acquisition. As a result of the acquisition we will record in the third quarter of 2010, a gain equal to the difference between the book value of the investment in Mammoth Pacific, LP and the fair value of such investment at the acquisition date. Based on a preliminary analysis the pre-tax gain will be approximately \$40 million. The actual amount of the gain will not be known until we complete the purchase price allocation, including the allocation between the current power plants and the planned expansion of the complex.

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

Ormat Technologies: Second Quarter 2010 Results Announced

Press Release, August 4 -- Ormat Technologies, Inc. (NYSE: ORA) today announced financial results for the second quarter 2010.

For the three-month period ended June 30, 2010, total revenues were \$96.3 million, a \$3.2 million decrease from the second quarter of 2009. The results include a 15% increase in revenues of the Electricity Segment which was offset by the expected reduced activity in the Product Segment from a record high during 2009.

For the quarter, the Company reported a net loss of \$1.5 million, or (\$0.03) per share (basic and diluted), compared to net income of \$16.0 million, or \$0.35 per share (basic and diluted), for the same period a year ago. The decrease is principally attributable to high costs of the North Brawley power plant, a \$3.1 million write-off of capitalized costs associated with an exploration prospect which we decided not to pursue, and an increase in interest expense due to a decrease in capitalized interest for projects under construction.

Other than the North Brawley power plant, our power plants performed well. The North Brawley power plant had an after tax loss of approximately \$7.4 million, or \$0.16 per share, for the quarter. Although measures are in process to reduce operating costs, financial improvement of the North Brawley power plant is expected only when production ramps up later in the year.

Commenting on the results, Dita Bronicki, Chief Executive Officer of Ormat, stated: "The low generation and high operating costs at the North Brawley power plant had a significant impact on this quarter's results. Presently, the plant is operating at a stable output of approximately 20MW. We expect financial improvement as the plant's output increases toward 50 MW later in the year. We expect breakeven results for North Brawley sometime in 2011. With the strong results from the rest of our plants and the success of the enhancement programs in other facilities, most notably Puna, we expect the overall results from the Electricity Segment to improve in the coming months."

“Important achievements occurred in several business development and financing areas that we expect will have a positive impact on our future results,” continued Dita Bronicki.

- “We closed on approximately \$142 million of 7- year senior unsecured bonds;
- We completed the acquisition of the remaining 50% interest in the Mammoth complex and will be able to move quickly to modernize the complex and generate higher revenue from the existing field and its expansion;
- We submitted our first application for a DOE Loan Guarantee for three geothermal projects under construction in Nevada; and
- Secured support for the Mount Spurr project in Alaska by the passage of Alaska Senate Bill 243, which significantly reduces royalty rates paid from geothermal production on state lands, and the recent Alaska Energy Authority approval of a \$2 million grant from the Renewable Energy Grant Fund to support our exploration and drilling program this summer.”

For more, see <http://www.ormat.com/news>.

Ram Power: Release Date for 2010 Second Quarter Results Announced

Press Release, August 3 — Ram Power, Corp. (TSX: RPG) today announced that it will release its financial statements for the fiscal quarter ended June 30, 2010 on Thursday, August 12, 2010. The management will discuss second quarter 2010 financial results and other matters during a conference call and live audio webcast on Friday, August 13, 2010 at 10:00 am ET (7:00 am PT).

The live audio call will be accessible at 888-789-9572 by entering the participant pass code 6036830.

The live audio webcast will be accessible at <http://bellwebcasting.ca/audience/index.asp?eventid=52390688>.

An archived version of the webcast will be available for three months following the call. To listen to a recording of the call by telephone, call (800) 408-3053. Use the conference call access code 2428707. The audio instant replay will be available until September 13, 2010.

See http://www.marketwatch.com/story/ram-power-announces-release-date-for-2010-second-quarter-results-2010-08-03?reflink=MW_news_stmp.



Renewable Energy and Climate Change

Western Climate Initiative Outlines Regional Cap and Trade Program

From EESI Climate Change News — On July 27, the Western Climate Initiative (WCI), a coalition of seven western U.S. states and four Canadian provinces, outlined a new regional cap and trade program to reduce regional greenhouse gas (GHG) emissions to 15 percent below 2005 levels by 2020 beginning in January 2012. “Cap and trade has proven to be a successful means of reducing air pollution. It also is considered one of the most cost-effective and reliable strategies for pricing carbon emissions and providing emitters of GHG emissions with an incentive to limit pollution,” WCI’s Program Design Summary said. “With the trading component, cap and trade allows emitters to be flexible and creative in how to make needed reductions.” Of all the partners of WCI, only California, New Mexico, Quebec, Ontario and British Columbia will be participating in the program beginning in January 2012. These states and provinces will create a market for reducing GHG emissions while also reducing GHG emissions considerably, since they account for about two-thirds of total emissions from WCI partners. “Action continues to be needed at the national and international levels to address clean energy and climate change, but California and the rest of the Western Climate Initiative partners are not waiting to take action,” said California Gov. Arnold Schwarzenegger.

For additional information see: [AP](#), [Platts](#), [Winnipeg Free Press](#), [WCI Press Release](#)



State News

California: Simbol Mining to Extract Lithium Resources from Salton Sea

Simbol Mining will soon tap into the lithium resources of the Salton Sea. The company is expected to begin commercial operations of its first lithium extraction plant in about 18 months. The Sea currently has five geothermal plants which could produce millions of dollars worth of lithium each year; the toxic brine is usually treated as waste.

The Salton Sea has a lithium concentration of about 200 parts per million. The U.S. currently relies on countries such as Bolivia and Afghanistan for lithium supplies, while the demand rises for lithium batteries, used in hybrid and electric vehicles.

See <http://www.fastcompany.com/1676021/salton-sea-could-be-source-of-lithium-riches-for-the-us>.

Maine: FAA Supplies \$2.5m Grant for Geothermal System at Portland Jetport

A geothermal installation project at the Portland International Jetport in Maine began this week and is funded by the Federal Aviation Administration through a \$2.5 million grant. The airport has estimated a reduction of over 100,000 gallons in its annual oil consumption and an 80% reduction in energy costs. The system will pay for itself in three years.

It includes a total of 120 boreholes, 500 feet deep and adds over 60,000-feet of ground loop coil. It is expected to be completed in October 2010 and operational by July 2011.

See <http://www.masshightech.com/stories/2010/07/26/daily55-FAA-puts-25M-into-geothermal-plant-at-Portland-Jetport-.html>.

Nevada: GBC to Receive \$1m for Geothermal System Enhancements

Great Basin College has been approved to receive \$1 million federal funding to enhance Elko's geothermal system and create research opportunities for students. GBC was also approved for funding last year, though it has yet to receive the money and begin work. Work is expected to begin this fall.

Nearly \$300 million was approved by the Senate Committee on Appropriations under the 2011 Energy and Water Appropriations Bill for Nevada clean energy, water and national security projects. It will now go to the U.S. House of Representatives and U.S. Senate, and on to President Barack Obama.

Funds will enhance the current group of geothermal energy users developed in 1986. This includes Flag View Intermediate School, the Elko Convention Center, Elko High School, the Elko County School District central administrative office, Elko City Hall, the city swimming pool, and GBC's Electrical and Industrial Technology building.

Steve Bowers, building operations and construction manager for the Elko County School District, said the school district's annual savings are around \$250,000.

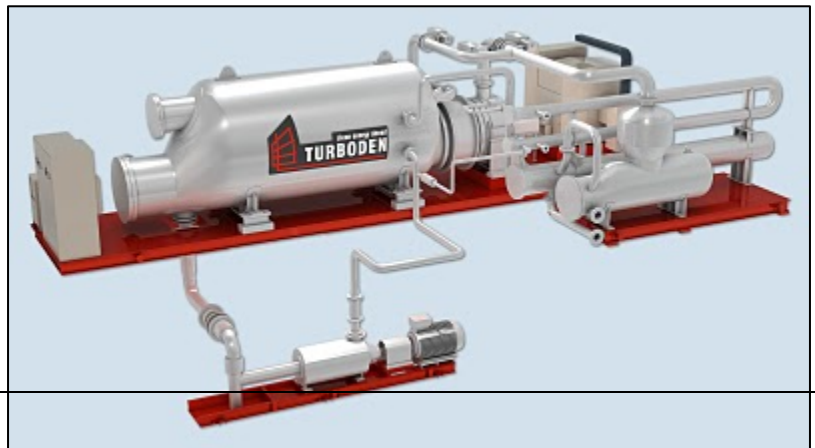
See [http://www.energydigger.com/articles/2010-08-03/gbc-to-receive-\\$1-million-for-geothermal-system.aspx](http://www.energydigger.com/articles/2010-08-03/gbc-to-receive-$1-million-for-geothermal-system.aspx).



International News

Germany: Geothermal ORC Plant to Supply District Heating Network

Press Release, August 2 — Turboden, a Pratt & Whitney Power Systems company with 30 years of expertise and experience in the design



and manufacture of Organic Rankine Cycle (ORC) power generation systems, will supply a 5MWe geothermal ORC turbogenerator unit to the German utility SWM – Stadtwerke München.

“This 5MWe geothermal plant is going to be an important benchmark for both Turboden and the European geothermal industry,” said Paolo Bertuzzi, General Manager of Turboden. “We are already having other negotiations in Europe and in other markets thanks to the support of Pratt & Whitney Power Systems.”

The geothermal plant is a 5MWe ORC turbogenerator based on a two pressure level cycle, fed with geothermal fluid at 140°C (284°F) and cooled by air condensers. The plant will provide the existing district heating network, which is already fed by a 600kW Turboden biomass unit, with an additional 4MW of thermal power for space heating. The startup is planned for the last quarter of 2011.

SWM – Stadtwerke München is one of the biggest city utilities companies in Germany, and supplies energy and municipal services making an enormous contribution to the standard of living in Munich. General Contractor Karl Lausser GmbH was awarded the public works contract.

In the geothermal application, Turboden offers a series of modular ORC units with high efficiency, ranging in sizes from 1MW to 10MW and scalable solutions for larger plants. Geothermal Turboden ORC can produce electricity from geothermal sources with medium to low temperature, ranging between 90°C – 180°C (195°F and 356°F).

With Turboden, Pratt & Whitney Power Systems offers a spectrum of ORC products, characterized by high efficiency, high reliability, low maintenance costs and ease of installation and operation.

Turboden systems are driven by a simple evaporation process and are entirely enclosed, which means they produce no emissions. The ORC systems can be powered with a variety of renewable energy sources including geothermal, biomass, solar thermal power and industrial waste heat.

See

http://www.powergenworldwide.com/index/display/articledisplay/8185087085/articles/powergenworldwide/distributed-generation/district-energy/2010/08/turboden-to_add_geothermal.html.

Indonesia: Tata Power Shortlisted for 200-MW Sumatra Geothermal Project

Tata Power Company was one of two bidders chosen out of eight companies to be shortlisted by the Indonesian government to develop a 200-MW geothermal power plant in Sumatra. The group is working with Indonesia's PT Supraco Energy and Australian electricity and gas retailer Origin Energy.

The project has not yet been finalized, but executive director of finance S Ramakrishnan told press the company is exploring non-coal-based assets. “Tata Power will explore opportunities in the geothermal space in countries like Indonesia and Australia mainly through the parent company, while operations will be looked after by a subsidiary or a special purpose vehicle,” he said. The name of the second shortlisted bidder was not available.

See <http://economictimes.indiatimes.com/news/news-by-industry/energy/power/TPC-shortlisted-for-3kcr-project-in-Indonesia/articleshow/6259274.cms>.

Nicaragua: IDB Approves \$40m Loan for San Jacinto-Tizate Expansion

A \$40m loan approved by the Inter-American Development Bank will finance the expansion of the San Jacinto-Tizate geothermal project by Polaris Energy Nicaragua, bringing it to a total installed capacity of 72 MW. This second phase expansion is expected to be completed by December 2011.

This will be the second operating geothermal plant in Nicaragua and will bring the country's geothermal resources to 15% of its installed capacity.

See <http://www.rechargenews.com/energy/geothermal/article224766.ece>.

Philippines: EDC to Invest \$1b in Greenfield Projects Over 5 Years

Energy Development Corp. plans to invest \$1 billion over the next five years and is expected to increase the company's generating capacity by 38% to 1,542 MW. This includes geothermal facilities that could generate a combined 230 megawatts (MW)

The greenfield expansion and rehabilitation projects planned over the next five years include the 150-MW Bacman geothermal plant and the 86-MW wind farm in Burgos, Ilocos Norte (by 2012); the 40-MW Tanawon and 20-MW Nasulo geothermal projects (2013); 50-MW Mindanao 3 geothermal project (2014); and the 40-MW Rangas geothermal project and 40-MW Kayabon project (2015).

See <http://business.inquirer.net/money/breakingnews/view/20100729-283854/EDC-to-invest-1B-in-power-plants-in-next-5-years>.

Philippines: APC Group to Finalize \$300m Geothermal Power Plant Venture

APC Group Inc. is looking to finalize a \$300-million geothermal power venture with a foreign group possibly by September of this year. Upon signing of the agreement, exploration activities for a 100-MW geothermal power plant in Northern Luzon are expected to begin and will cost an estimated \$40 million.

See http://businessmirror.com.ph/index.php?option=com_content&view=article&id=28365:apc-group-finalizes-300-million-geothermal-power-plant-venture&catid=24:companies&Itemid=59.



Geothermal Heat Pumps and Direct Use Applications

Coming soon: a Geothermal Energy Weekly column on geothermal heat pumps and direct use applications.

If you have news you would like to see included, email us at research@geo-energy.org.



Viewpoint on the News

On occasion, the Geothermal Energy Weekly presents views of knowledgeable individuals on events in the news that do not necessarily represent the views of the GEA or its member companies. If you have an opinion you would like us to consider, email us at research@geo-energy.org.

Iceland: Magma's Investment in Economy Threatened

By Auður Nanna Baldvinsdóttir, audurnanna@gmail.com

Magma Energy's largest investment to date is now at risk of being blocked by the Icelandic government. Just a few days prior to the finalization of the purchase of geothermal power producer HS Orka, the Icelandic Minister of Economic Affairs sent Magma Energy a letter informing the company of a planned investigation into the legality of the investment by Magma's Sweden-based subsidiary. The letter also states that the government intends to reverse the privatization that has already occurred in the Icelandic energy sector. This could mean the nationalization of private assets within a developed economy; a global rarity over the last 50 years.

Magma has been increasing its stake in the firm for several months now and the government has known of Magma's plans to own the company in full for the last nine months. The decision to intervene in the transaction was only made when pop singer Björk held a press conference declaring her disapproval and then organized a petition demanding that the government prevent the purchase. Public debate was ignited and the Left-Green Party members of the governing coalition threatened to disband the ruling government if the investment was not stopped. The centrists agreed and the investigation was organized.

The opponents of the sale argue that Iceland's resources should not be under the control of private companies and that Magma's ultimate intent is to own all of Iceland's energy resources. Magma's chief executive in Iceland, Ásgeir Margeirsson, formerly of Geysir Green Energy, firmly denies such plans. He points out that Magma merely leases the geothermal resource from the municipalities for a 65-year time period.

The 260 million dollar deal also happens to represent the largest single foreign investment in the Icelandic economy since the economic collapse in the fall of 2008. Magma's chief executive Ross Beaty told the *Financial Times* that he thought the investment would be welcome at a time of economic strife. HS Orka needs financing to

complete expansions for the planned sale of electricity to a nearby Century Aluminum smelter. A Mitsubishi steam turbine sits unused in their turbine hall waiting for the required six additional production wells to be drilled. Magma is also preferred by HS Orka's creditors to the previous owner, Geysir Green Energy, which was largely owned by bankrupt bank Glitnir.

The legal argument for the prevention of this particular transaction is that EU legislation stipulates that energy firms in Europe must be owned by European companies. Magma, a Canadian company, set up the Magma Energy Sweden subsidiary in Sweden to hold the HS Orka shares. Magma representatives state they followed the advice of the Ministry of Industry on how the holding should be structured.

Margeirsson told *Fréttablaðið*, a local newspaper, that the company had not yet answered the letter but had expressed its intent to cooperate with the investigation. He said he found it difficult to imagine how the authorities planned on preventing the transaction and that Magma's directors are already considering their legal options, should the government somehow prevent Magma's investment in HS Orka.

Regardless of the merits of a publicly-held electricity system, forcing foreign investors out of an economy after having made considerable investments in good faith is the equivalent of a large "keep out" sign to international investors. The Icelandic government knew of Magma's plans for nine months and did nothing. The largest single foreign investment in Iceland's economy after its collapse has been thrown into uncertainty. As an Icelandic citizen, economist and energy professional, I hear echoes of the same attitudes that largely caused our economy to collapse in the first place; an unprofessional bureaucracy, unclear execution of policy, and an inability to make decisions.



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



Notices

Closing This Week

Call for Abstracts: Renewable Energy World Conference (August 6)

The Geothermal Energy Association is a partner and supporting association for the Renewable Energy World Conference & Expo North America, to be held March 8-10, 2011 in Tampa, FL and now draws your attention to the conference call for abstracts - due on August 6. This opportunity ensures geothermal sector visibility alongside other renewables.

GEA participates on the steering committee, conference planning, a networking breakfast, and the Geothermal Track sessions.

In 2010, the event featured over 30 educational conference sessions in 8 technical tracks covering Biomass, Policy Market & Finance, Solar, Utility Integration, Wind Power, Geothermal, and Hydro. There were three geothermal conference sessions: Technology and Applications; Resource Development and Investment; and Markets, Trends and Policies. Twelve GEA member companies exhibited in the Expo Hall, and many other companies representing aspects of the geothermal industry were present. GEA also maintained a booth space with educational materials and facilitated networking.

If you submit an abstract let us know and we will keep an eye out for your submission. Abstracts are now submitted online at www.renewableenergyworld-events.com.

Questions or submission problems: Call +1-918-831-9736 or email rewna-conference@pennwell.com.

Current Notices

Los Angeles Department of Water and Power Integrated Resource Plan Open for Comment

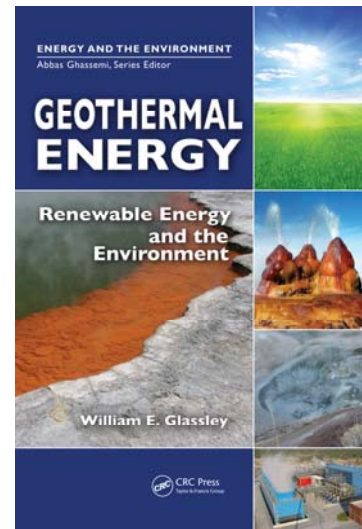
The Los Angeles Department of Water and Power (LADWP) Draft 2010 Integrated Resource Plan (Draft 2010 IRP) is now out and open for comment. The draft is designed to provide a 20-year for ensuring Las Angeles energy needs are met and follow regulatory requirements and environmental policy goals. The Draft 2010 IRP adheres to the following objectives:

- * Reliability of the Power System
- * Regulatory compliance
- * Environmental stewardship, including pursuing renewable energy resources
- * Maintaining low and stable rates

For related documents and workshops visit <http://www.lapowerplan.org/>.

New Book Provides Case Studies on Geothermal Energy Topics

A new book on geothermal energy, entitled *Geothermal Energy: Renewable Energy and the Environment* has just been released by CRC Press. The author is William E. Glassley, who is with The Energy Institute, University of California, Davis. Initial chapters deal with the physics of heat generation and heat transfer, thermodynamics, hydrology, geochemistry and basic earth sciences, providing a rigorous introduction to the principles that determine the characteristics of geothermal resources. Subsequent chapters deal with resource exploration and assessments, drilling, power generation, direct use applications and heat pumps. The book concludes with chapters that consider environmental issues, the economics of geothermal applications and project development guidelines, and potential future developments that could affect geothermal energy availability. Real world examples are used throughout the book to demonstrate key processes and considerations. Case studies conclude each chapter, along with extensive references and links to useful internet sites. Problem sets are included for each chapter and a teaching guide is also available. (CRC Press, Taylor and Francis Group, 311 pages, approximately 20 color plates and 150 figures, \$119.95. ISBN 9781420075700).



Colorado Geothermal Working Group Presentations Posted on New Group Site

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

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

Employment Opportunities

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

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

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com



Requests for Proposals**Closing This Week****Greenhouse Gas Reporting Systems, EPA (August 9)**

The U.S. Environmental Protection Agency requests proposals for the Greenhouse Gas (GHG) Reporting Systems: Outreach to Reporting Facilities and Analysis of Greenhouse Gas Mitigation Opportunities. This RFP will support work to communicate to affected facilities the requirements of state GHG reporting systems as compared to those of U.S. EPA's Final Mandatory Reporting of Greenhouse Gases Rule, and to identify options for how the data collected through state reporting requirements and the MRR may be used to facilitate state- and facility-based GHG programs. \$2 million expected to be available, up to 20 awards anticipated. A Notice of Intent to apply is requested, but not required, and is due 7/19/10. Final proposals due 8/9/10. For more info, contact Cate Hight at hight.cate@epa.gov or go to: http://www.epa.gov/air/grants_funding.html. Refer to Sol# EPA-OAR-CCD-10-05. (Grants.gov 6/29/10)

Rural Cooperative Development, DOA (August 9)

The U.S. Department of Agriculture requests proposals for the Rural Cooperative Development Grant Program. This program supports the establishment and operation of cooperative development centers for the primary purpose of improving the economic condition of rural areas. Areas of interest include but are not limited to: Renewable energy generation, energy conservation, and/or climate change adaptation or mitigation as strategies for quality job creation; Innovative utilization of natural resources as a strategy to expand business opportunities; and local and regional food systems as a strategy for encouraging production agriculture and related industries in new wealth creation. \$7.9 million expected to be available, up to 30 awards anticipated. Responses due 8/9/10. For more info, contact cpgrants@wdc.usda.gov or go to: <http://www.rurdev.usda.gov/rbs/coops/rcdg/rcdg.htm>. Please note that this RFP was posted under Sol# RDBCP-10-02-RCDG and Sol# RDBCP-10-03-RCDG; it is unclear which Sol# is correct. (Grants.gov 6/29/10)

Added This Week**Southern California Edison Seeks Renewable Energy Contracts**

Southern California Edison is seeking power purchase contracts for renewable energy under 20 MW in size. The power utility will buy power from solar, wind, biomass, biogas, oceanic, hydroelectric, or geothermal projects located in California. SCE is looking for projects that could be operating within three years of contract approval, expected to be January 2011.

See <http://www.brighterenergy.org/14706/brief/solar-brief/southern-california-edison-seeks-renewable-energy-contracts/> and <http://www.sce.com/EnergyProcurement/renewables/renewables-standard-contracts.htm>.

NV Energy Seeks Offers for Renewable Energy Credits (September 22)

NV Energy has issued a Request for Offers (RFO) for renewable energy portfolio credits from qualified renewable energy generators for a contractual time length of five to 25 years. Energy credit proposals will be considered for solar, geothermal, biomass, wind and other resources eligible for portfolio energy credits under the Nevada Renewable Portfolio Standard and will require certification from the Public Utilities Commission of Nevada.

Eligible renewable resources must be either in operation or have a commercial operation date no later than July 1, 2013. Minimum bid size is 450 kW; proposals with multiple sites of no less than 150 kW at each site. Go to www.NVEnergy.com/PCOnlyRFO; proposals are due by 5 p.m. (PDT) on Sept. 22, 2010.

See <http://www.prnewswire.com/news-releases/nv-energy-seeks-offers-for-renewable-energy-credits-99578969.html>.

RFP Announcements**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)

Sustainable Communities, HUD (August 23)

The U.S. Department of Housing & Urban Development requests proposals for the Sustainable Communities Regional Planning Grant Program. This program will support metropolitan and multijurisdictional planning efforts that integrate housing, land use, economic and workforce development, transportation, and infrastructure investments in a manner that empowers jurisdictions to consider the interdependent challenges of: 1) Economic competitiveness and revitalization; 2) Social equity, inclusion, and access to opportunity; 3) Energy use and climate change; and 4) Public health and environmental impacts. \$98 million expected to be available, award range \$100K to \$5 million. Responses due 8/23/10. For more info, contact sustainablecommunities@hud.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=55456>. Refer to Sol# FR-5396-N-03. (Grants.gov 6/24/10)

Community Environmental Demonstration Projects – Alaska (September 9)

The Alaska Native Tribal Health Consortium and RurAL CAP request proposals for Community Environmental Demonstration Projects. This initiative will support innovative projects that address approaches for enhancing human health and the environment of Tribal communities in rural Alaska. Areas of interest for demonstration projects include, but are not limited to: Climate change, indoor air quality, solid waste management, recycling, outreach materials, energy use, and pollution. \$200K expected to be available, up to 12 awards anticipated. Responses due 9/9/10. For more info, contact Desirae Roehl at droehl@anthc.org or go to: <http://www.anthc.org/chs/ces/hve/fy11solicitation.cfm>.

Greenhouse Gas Mitigation, Indonesia (September 15)

The U.S. Agency for International Development Mission in Indonesia requests applications for the Greenhouse Gas Mitigation Program. This RFP will support projects to reduce greenhouse gas emissions in both the land use/forestry sector and the energy sector. \$1.5 million expected to be available, up to 2 awards anticipated. Responses due 3/30/10 and 9/15/10. For more info, contact Dominic Soenarno at aps10-011@usaid.gov 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)

Environmental Scientist Award, Health and Human Services (September 30)

The U.S. Department of Health & Human Services, National Institutes of Health, requests proposals for the Outstanding New Environmental Scientist Award. This RFP will support early stage investigators committed to research in problems related to environmental exposures. Examples of relevant toxicants include, but are not limited to: Industrial chemicals or manufacturing byproducts, pesticides, air pollutants and other inhaled particulates. \$3.6 million expected to be available, up to 6 awards anticipated. Letters of Intent are required and are due 9/30/10, final proposals due 10/29/10. For more info, contact Carol Shreffler at shreffl1@niehs.nih.gov or go to: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-10-004.html>. Refer to Sol# RFA-ES-10-004. (Grants.gov 6/18/10)

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)

Works Procurement Notice, Drilling Of Geothermal Wells in Roseau Valley, Commonwealth of Dominica (October 25)

The Government of the Commonwealth of Dominica through the Ministry of Public Works Energy and Ports – Geothermal Project Management Unit, intends to procure the services of a drilling contractor to drill at least three geothermal wells in the Wotten Waven / Laudat area. The objective of the project is to prove the existence of high enthalpy geothermal resource suitable for commercial generation of electric power and to determine the capacity for sustainable exploitation. Services to be provided by the contractor include mobilization and demobilization of the drilling rig and associated equipment, drilling of at least three wells, provision of cementing, drill-pipe inspection, and vertical drilling expertise. The provision of drilling mud and related additives and well testing services will also be required. Deadline is 9:00am Eastern Caribbean Time on October 25, 2010.

Attendance at an information meeting and site visit on August 17, 2010, at 09:00 am is strongly recommended. Contact the Project Mangement Unit, Ministry of Public Works, Energy and Ports, Government Headquarters Roseau. Telephone: (767) 266- 3616/8/; 266 -3294/3296 Fax: (767) 448-0182. Email: pmu.geotheremal@gmail.com; geothermal@dominica.gov.dm.

Send questions in writing to geothermal@dominica.gov.dm and c/o The Project Coordinator, Geothermal Project Management Unit, Ministry of Public Works, Energy & Ports, 3rd Floor Government Headquarters, Roseau, Commonwealth of Dominica, mentioning the publication reference (EuropeAid/130061/D/WKS/DM) at least 21 days before the deadline for submission of tenders. The Contracting Authority must reply to all tenderers' questions at least 11 days before the deadline for submission of tenders. Eventual clarifications or minor changes to the tender dossier will be published at the latest 11 days before the submission deadline on the EuropeAid website at <https://webgate.ec.europa.eu/europeaid/online-services/index.cfm?do=publi.welcome>.



Events

Happening This Week

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

Canadian Geothermal Energy Association

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

Public Meeting, Desert Renewable Energy Conservation Plan, Ontario, CA (August 11)

The stakeholder committee of the Desert Renewable Energy Conservation Plan will meet:

Wednesday, August 11, 2010, 9:30 a.m. – 5 p.m.

Ontario Convention Center

2000 E. Convention Center Way, Room 104B

Ontario CA 91764

A complete agenda and written reports will be posted at www.energy.ca.gov/33by2020/documents/index.html several days prior to the meeting. Topics to be discussed are:

- NCCP Act Requirements and the Independent Science Panel
- Science Advisors Draft Written Report
- SB 34 Interim Mitigation Strategy and the Draft DRECP Conservation Strategy
- Covered Activities Working Group Update
- Covered Species Working Group Update
- Other Topics (to be identified in the agenda)
- Public Comment

Written Comments

Written comments on the meeting topics must be submitted by 5 p.m. on August 20, 2010. Please include the docket number 09-RENEW EO-01 and indicate Renewable Energy Executive Order in the subject line or first paragraph of your comments. Please hand deliver or mail an original copy to:

California Energy Commission

Dockets Office, MS-4

Docket No. 09-RENEW EO-01

1516 Ninth Street

Sacramento, CA 95814-5512

The Energy Commission encourages comments by e-mail. Please include your name or organization's in the name of the file. Those submitting attached comments electronically should provide them in either Microsoft Word format or as a Portable Document (PDF) to [docket@energy.state.ca.us]. One paper copy must also be sent to the Energy Commission's Docket Unit.

Public Participation

The Energy Commission's Public Adviser's Office provides the public assistance in participating in Energy Commission activities. If you want information on how to participate in this forum, please contact the Public Adviser's Office at (916) 654-4489 or toll free at (800) 822-6228, by FAX at (916) 654-4493, or by e-mail at PublicAdviser@energy.state.ca.us. If you have a disability and require assistance to participate, please contact Lou Quiroz at (916) 654-5146 at least five days in advance.

Please direct all news media inquiries to the Media and Public Communications Office at (916) 654-4989, or by e-mail at mediaoffice@energy.state.ca.us. If you have questions on the subject matter of this meeting, please call Michael Valentine, DRECP Assistant Director by email at Michael.Valentine@energy.state.ca.us or Paul Richins of the California Energy Commission at (916) 654-4074 or by e-mail at prichins@energy.state.ca.us. Notices, reports, and documents are posted at www.energy.ca.gov/33by2020/index.html. If you would like to receive automatic notices of meetings, workshops, hearings, and reports, sign up for the electronic list server on this webpage.

Remote Attendance

You can participate in this meeting through WebEx, the Energy Commission's online meeting service. Presentations will appear on your computer screen, and you listen to the audio via your telephone. Please be aware that the meeting's WebEx audio and on-screen activity may be recorded. Please go to <https://energy.webex.com> and enter the unique meeting number: 922 863 617. When prompted, enter your name other information as directed and the meeting password: meeting@930.

GEA Events

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)

Tweeting about your GEA Expo plans? Use tag #GEAEXPO. And follow us here: @GEAGeoEnergy.

With the GEA Geothermal Energy Expo® right around the corner, GEA has opened visitor registration to walk the halls of the biggest geothermal expo in the world. Registration for visitors is available at: <http://www.geothermalenergy2010.com/visitors.asp>.

Come see the more than 150 exhibitors of this years Expo including: 101 Pipe & Casing, Inc., Alstom Power, Ashland, Inc., Atlas Copco Mafi-Trench Company LLC, Ausenco PSI, Baker Hughes, Bakersfield Pipe and Supply, Baroid Industrial Drilling Products, BM Engineering & Construction Comp., Boart Longyear Drilling Services, Boart Longyear/Energy Products, Boise State, Bolttech Mannings, Brush Turbogenerators, BS&B Safety Systems, LLC, Bureau of Land Management, CA Division of Oil, Gas, & Geothermal Resources, California Energy Commission, Cameron, Campbell Scientific, Chevron Global Lubricants, City of Reno, Composite Cooling Solutions, Cryostar, CSE Engineering, Inc., Department of Energy, Geothermal Technologies Program, Department of Navy, Geothermal Program Office, Dewhurst Group, DHI Services, Inc., DOSECC Exploration Services, Dresser-Rand, Ecology & Environment, Inc., ElectraTherm, Inc., Emerson Process Management, EMPSi, Ensign Energy, EvapTech, Inc, Expro Americas LLC, Freemyer Industrial Pressure, Fuji Electric, GEFCO- Newsom Industries, Geo-Heat Center, George T. Hall Company, Geotech Ltd., GeoTek Energy, LLC, Geothermal Development Associates, Geothermal Education Office, Geothermal Energy Association, Geothermal Resources Council, GeoThermHydro, Gradient Geophysics, Inc., Great Basin Center for Geothermal Energy, Halliburton, Holland & Hart LLP, Holtec International, Horizon Well Logging, Ind Valco, Reno-Win, & Beric Valves,

Industrial Cooling Solutions, Industrial Tests, Inc., Institute of Earth Science & Engineering, Islandsbanki, Itasca International Inc., ITT, JBR Environmental Consultants, Inc., JD Rush Company, Kelly Pipe, Kiewit/TIC, Kuster Company, L.A. Turbine Corporation, Layne Christensen, Linear Power, Machine Support Technologies, Inc., MadgeTech, Inc., Magma Energy Corporation, Major Drilling America Inc., MEGTEC Systems, Mill Man Steel, Mitsubishi Power Systems Americas, Nalco, Nash, A Gardner Denver Product, National Oilwell Varco, Nevada Commission on Economic Development, Ormat Technologies, Inc., Pacific Process Systems, Inc., Perma Works LLC, Plymouth Tube Company, Potter Drilling, Inc., POWER Engineers, Inc., PowerChem Technology, Pratt & Whitney Power Systems, Precise Propellant Stimulation, LLC, Processes Unlimited International Inc., Quantec Geoscience, Rain for Rent, Ram Power, Raser Technologies, Rattler Energy, Rigger Engineering, RMT, Inc., Rocky Mountain Oilfield Testing Center, Rotork Controls, Inc., Ruen Drilling, Inc., Sacramento Municipal Utility District (SMUD), Schlumberger, Siemens Industry, Inc., SnapOn Industrial, SNC-Lavalin Thermal Power, SpecTIR, SPX Corporation, Stoel Rives LLP, Stork H&E Turbo Blading Inc., Sunrise Engineering, Inc., TAS, TBA Power, Inc., Team Australia Geothermal, Tenaris, The Shaw Group, ThermaSource, LLC, Tiger Energy Services, Titan Metal Fabricators, TIX Corporation, TNG Energy Services, Inc., Toshiba International Corp, TRE Canada Inc., Tricor Metals, TurboCare, Tyco Flow Control, Vooner FloGard Corporation, WEC Welding and Machining, Well Analysis Corporation, Wellons Water Technology, Western Cultural Resource Management, Inc., Western Environmental Testing Laboratory, Wolseley, Wolverine Tube, Inc., Wood Group Field Services, WorleyParsons, Zapata Geophysics, and Zonge Engineering.

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

Poker Tournament - \$5,000 (Exclusive)

Benefits:

- Fun tournament played in 15 minute rounds
- Sponsor receives recognition on GEA website and within Poker Tournament itself
- Advertisements for tournament will include sponsor information

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

SOLD: Geothermal Resource Group

Benefits:

- 20 x 20 space with two desktop computers with internet connection and printer in 2010 Expo Hall
- Offers the opportunity for technical and management professionals from around the world to come together and networking/round tables and chairs
- Company logo on signage of the “Cyber Space”
- Company’s website set to default for all computer screen savers
- Recognition on signage on Expo Hall

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

Benefits:

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

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

Benefits:

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

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

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

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

SOLD: Halliburton

Benefits:

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

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

Benefits:

- (1) 10'x10' booth space within Expo
- (2) complimentary full conference passes
- Prominent display of name/logo on event guides
- Formal acknowledgement at Opening Reception

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

Silver Level - \$7,500 (Unlimited)**SOLD: City of Reno**

Benefits:

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

Breaks

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

SOLD: The Shaw Group

Benefits:

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

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

Benefits:

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

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

Benefits:

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

Morning Coffee, Wednesday - \$2,500

Benefits:

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

Variety Items

Neck Wallets - \$10,000 (Exclusive)

SOLD: Calpine Corporation

Benefits:

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

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

Benefits:

- One color sponsor logo placement on bags to be given out to all of the 2010 attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site

- Company literature inserted into attendee bags
- Recognition on signage in Expo Hall

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

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

www.chenahotsprings.com or www.chenapower.com

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

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.

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>

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

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.

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

Australian Geothermal Energy Association

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

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/>

GEOHERMAL ENERGY WEEKLY

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

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