



## GEOTHERMAL ENERGY ASSOCIATION

209 Pennsylvania Avenue SE, Washington, D.C. 20003  
Phone: (202) 454-5261 Fax: (202) 454-5265  
www.geo-energy.org

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## **Company News**

### **Ormat: New Plants Begin Operation in Nevada, California**

Ormat Technologies has finished Galena 3, the newest plant at the Steamboat complex near Reno, and has begun operations, according to rgj.com.

The article quoted Paul Thomsen, Ormat’s public policy manager. With Galena 3, overall production has reached 100 MW, Thomsen said. He added that one megawatt of geothermal electricity is enough to supply 800 homes.

Ormat also announced the commencement of their Heber South project. Release is given below:

Ormat Technologies, Inc. Commissions the 10 MW Heber South Project [Press Release—May 1]

Ormat Technologies, Inc. today announced that Heber South geothermal project located in the Imperial Valley, California, reached commercial operation on Mid April 2008.

The Heber South project is Ormat's second geothermal power plant to reach commercial operation since the beginning of the year. It is integrated into the existing Heber Complex and brings the total output supplied from the complex to 92 MW and the total owned generating capacity of Ormat's portfolio to 410 MW.

"We are very happy to bring additional base load power through clean geothermal energy and contribute to the Renewable Portfolio Standards of California," said Dita Bronicki, Chief Executive Officer of Ormat.

Visit <http://www.rgj.com/apps/pbcs.dll/article?AID=/20080502/BIZ/805020513/1388> and <http://www.ormat.com/relation.php?did=84>.

### **Raser Technologies: To Hold Groundbreaking Ceremony for Project in Beaver**

Raser to Hold Groundbreaking Ceremony and Press Conference for Utah Geothermal Power Project Raser to Construct First Utah Geothermal Power Plant in 20 Years; Senator Orrin Hatch to Participate in Ceremonies for Renewable Energy Project [Press Release—May 5]

Raser Technologies, Inc. announced today that they will hold a groundbreaking ceremony for beginning the construction phase of the first geothermal power plant built in Utah in 20 years. The groundbreaking ceremony in Beaver County, Utah will be followed by a press conference at the Energy and Geoscience Institute (EGI) building on the University of Utah campus in Salt Lake City, Utah. Senator Orrin Hatch, U.S. Senator from Utah, has accepted Raser's invitation along with state and county government officials to participate in the groundbreaking ceremony and press conference and will be available to discuss Utah's efforts to reduce emissions from power production facilities and its efforts to meet the state's newly legislated renewable portfolio standard to increase the amount of renewable power. The groundbreaking

ceremony is scheduled for May 9, 2008, at the power plant project site in Beaver County at 11:00 a.m. local time. The press conference is scheduled for 2:00 p.m. local time at the offices of EGI on the University of Utah's campus at 423 Wakara Way, Salt Lake City, Utah.

Raser previously announced the initial results of drilling the geothermal production well on the site and stated that the results suggested sufficient heat and flow of geothermal fluids to produce the planned 11 MW of geothermal power. Raser also recently announced a power purchase agreement to sell the power produced by the plant to the City of Anaheim and anticipated delivery of the power before December 15, 2008.

"We are pleased with the progress we have made on this geothermal power project and anticipate the completion of the project within the next six months," stated Brent M. Cook, Raser's Chief Executive Officer. "Our geothermal power plant is designed to provide baseload renewable energy with virtually no harmful emissions. We have already begun to take delivery of the UTC power generation units and expect that the remainder will be ready once site preparations are completed."

## **Nevada Geothermal: Project at Blue Mountain Gets Second Limited Notice to Proceed**

[Nevada Geothermal Issues Second Limited Notice to Proceed to Ormat for the Blue Mountain Faulkner 1 Power Plant \[Press Release—May 1\]](#)

Nevada Geothermal Power Inc. announced today that NGP Blue Mountain I LLC has issued a Second Limited Notice to Proceed (LNTP) under the fixed-price, date-certain engineering, procurement and construction (EPC) contract signed with Ormat Nevada Inc. to supply and construct the Phase 1 power plant of NGP's planned geothermal power development at Blue Mountain, Nevada.

Ormat is continuing detailed engineering design, manufacturing and purchasing of certain long lead items for Blue Mountain's Faulkner 1 geothermal power plant in order to meet the guaranteed substantial completion date of December 31, 2009. Full release of the EPC contract is subject to finalizing of the financing for the project, which is expected to occur over the near term.

Blue Mountain, located 30 kilometers (20 miles) west of the town of Winnemucca, Nevada, is ideally situated for development. The proposed Faulkner I geothermal plant will require a 20-mile long transmission line over relatively flat, undeveloped desert land to a connection point located on the Utility's 120kV-transmission line north of Mill City, Nevada. Phase I at Blue Mountain is expected to commence power generation in late 2009.

For Nevada Geothermal Power press releases, visit <http://www.nevadageothermal.com/s/News.asp>.

## **ThermaSource: Receives Extra Kick in Funding, Jobs**

An article in the *North Bay Business Journal* gave an overview of ThermaSource, LLC, and its success in Northern California.

ThermaSource has received \$40 million from partners and investors and is expected to double in size to 420 employees by the end of the year, according to the article.

"We expect to be a significant force in the exploration and drilling of geothermal wells globally," said Louis Capuano Jr., ThermaSource president and CEO.

ThermaSource is the prevalent geothermal driller, currently working at The Geysers and other areas in California and Nevada; internationally, new drilling projects are in negotiations in the Philippines,

Nicaragua, Chile, Peru, Baja Mexico, Panama, Iceland, and additional Caribbean islands, according to the article.

*For the complete article, visit*

<http://www1.pressdemocrat.com/article/20080505/businessjournal/470167616/-1/businessjournal&tc=yahoo>.

## **U.S. Geothermal: Acquires Power Plant, Leases, Ground Water Rights in Nevada**

U.S. Geothermal Completes Acquisition of Producing Geothermal Power Plant and Energy Rights in Nevada [Press Release—May 1]

U.S. Geothermal Inc., a renewable energy company focused on the production of electricity from geothermal energy, announced that it completed a transaction with Michael B. Stewart individually and Empire Geothermal Power LLC ("Empire") (together "Seller"), and acquired a 3.6-MW operating geothermal power plant and approximately 28,358 acres (44.3 square miles) of geothermal energy leases and certain ground water rights all located north of Reno, Nevada.

The asset purchase transaction (the "Transaction") was structured with an initial closing on April 1, 2008 and the final closing on April 30, 2008. The total Transaction purchase price was US\$16.62 million. The Transaction assets are comprised of two locations: the San Emidio assets and the Granite Creek assets. The San Emidio assets are located in the San Emidio Desert, Washoe County, Nevada and include the geothermal power plant project, approximately 22,944 acres (35.9 square miles) of geothermal leases, and ground water rights used for cooling water. The Granite Creek assets are comprised of approximately 5,414 acres (8.5 square miles) of BLM geothermal leases located about 6 miles north of Gerlach, Nevada along a geologic structure known to host geothermal features including the Great Boiling Spring and the Fly Ranch Geyser.

The 3.6-MW geothermal power plant has been producing power since 1987 and sells electricity to Sierra Pacific Power Corp. ("Sierra") under an existing power purchase agreement that extends through 2017. A March 2008 resource assessment of the San Emidio geothermal leases by independent experts Susan Petty and Dennis Trexler of Black Mountain Technology shows a total resource potential of 44 MW with a 90% probability factor.

*For U.S. Geothermal news releases, visit <http://www.usgeothermal.com/NewsReleases.aspx>.*

## **Raser Technologies: CEO Discusses Future of Geothermal**

An article on [energydigital.net](http://energydigital.net) features Raser Technologies and the future of the geothermal industry.

“The companies that understand all three aspects of the industry are going to succeed in the future. The first is the power industry. The second is geothermal, based on geophysics, which is where most geothermal companies are focused right now. The third is tax equity structuring, meaning some of the tax incentives are very compelling and when utilized properly can totally reshape the industry,” Raser CEO Brent Cook told the publication.

*To view the article, visit <http://www.energydigital.net/Raser-Technologies-builds-global-reputation-with-geothermal-strategy-5773.aspx>*

## National News

### **High Energy Prices Have Democrats and Republicans Debating What to do, Who to Blame**

With record energy prices hobbling the U.S. economy and driving up prices and the deficit, the President and Congress have been debating what to do and who is to blame. An example of the level of the debate came when, on the same day (May 2), Senator Pete Domenici (R-NM) and Senator Jeff Bingaman (D-NM) issued press releases on the subject, with very different themes.

Senator Pete Domenici's release said: *U.S. Senator Pete Domenici and thirteen of his Republican colleagues today asked the U.S. Energy Information Administration (EIA) to analyze the impacts of a bill they introduced to dramatically increase domestic production.*

*The American Energy Production Act (S.2958) introduced by Domenici, Senate Republican Leader Mitch McConnell (R-Ky.) and 18 other GOP Senators, could produce up to 24 billion barrels of oil—enough to supply America for five years with no foreign imports by expanding production offshore and in Alaska. The bill will also make billions more barrels of fuel available through the development of oil shale and coal to liquids technology.*

*Domenici is seeking an EIA analysis of the impact the legislation will have on America's reliance on foreign oil and energy prices as compared to forecasts the agency made in its Annual Energy Outlook 2008.*

*"Americans are sick and tired of paying high gas prices, and they are sick and tired of being beholden to unstable regions of the world for energy. While Democrats have rejected efforts to expand domestic production in the past, I believe they should seriously reconsider common sense proposals like the ones in our bill now that the price of oil is so high. I look forward to obtaining an expert analysis of the impact our legislation will have to reduce our dependence on foreign oil and lower energy prices," Domenici said.*

Senator Bingaman's released a statement entitled: Straight Talk on Energy Prices. It said, in part,

*I would like to take a few minutes to discuss what has become a tortured topic for this country: oil, gasoline, and diesel prices. I'd first like to respond to the President's misstatements about Congress's role in U.S. energy policy, made at his press conference Tuesday. I will then talk about the real causes of the energy situation, and what constructive steps we could take to address it.*

#### *President's Misstatements*

*The President has suggested that Congress is to blame for the current price situation for three reasons: for preventing oil companies from exploring for oil and gas in the United States; for blocking efforts to build more refineries in the United States; and for blocking increases in U.S. nuclear electricity production capacity.*

*I am disappointed in the President's comments – first, because energy policy should not be a partisan issue, and second, because the charges the President makes are simply wrong.*

*Turning first to the issue of exploration and production, Congress has taken significant steps on a bi-partisan basis to enhance domestic oil and gas.*

*Through enacting the Gulf of Mexico Energy Security Act of 2006, Congress made available an estimated 4.74 trillion cubic feet of natural gas and 1.26 billion barrels of oil off the Florida panhandle.*

*Ironically, Congress needed to pass this law because of steps taken by the Bush Administration. In her first year in office in 2001, Secretary of Interior Gale Norton cut the size of the scheduled OCS lease sale in the*

area by 75%. With the stroke of a pen, she put off limits over 6 trillion cubic feet of natural gas and over a billion barrels of oil, from an area that had been proposed for leasing by the Clinton Administration.

While undoubtedly a politically popular stance for the Bush Administration in Florida, this was hardly an action that enhanced oil and gas production. In fact, large areas of the OCS are currently off limits to oil and gas development and production not just because of Congressional moratoria but because of Presidential withdrawals -- first put in place in 1990 by then-President Bush.

This President Bush could exercise real leadership by eliminating these Presidential withdrawals. As it stands now, some 574 million acres of the OCS are unavailable for leasing, containing estimated undiscovered technically recoverable resources of approximately 18 billion barrels of oil and 76 trillion cubic feet of natural gas. The President could take the first step toward making these resources available any time he chooses to by simply issuing the appropriate order revoking the Presidential withdrawals.

The Arctic Refuge is another issue raised by the President – but he failed to mention that drilling in the Refuge will do nothing to address the high price of gasoline.

If opened for development, not one drop of oil will come from the Arctic Refuge for 10 years, and we will have to wait for 20 years for maximum production. The Energy Information Administration has estimated that production from the Arctic Refuge would, at its peak, reduce our reliance on imports by only 4%, from 68% to 64%.

Other areas of Federal land that are much more appropriate for development can and should be drilled. In fact, of the 45.5 million acres of Federal onshore lands currently under lease by industry, over 31 million acres are not producing.

Likewise, there are 33 million acres of the Federal OCS that are under lease but not producing. Processing of drilling permits on Federal lands has surged over the past several years, more than doubling from 2001 to 2006. At the same time, the Administration reported that in five key basins in the Rocky Mountain states, 85% of oil resources and 88% of natural gas resources are available for leasing and development.

Congress has also funded important research and development programs to enhance domestic production. It is simply inaccurate finger-pointing to say the Congress is impeding oil and gas development and production in our Nation.

Refinery capacity has increased by about 1 million barrels per day during President Bush's tenure -- from 16.6 million barrels per day in 2001 to 17.5 million barrels per day in 2007, through capacity expansion at existing refineries. There have been no efforts from Congress to try to slow down this expansion.

Refiners have been asked whether they would like to build new refineries, as opposed to expanding capacity at existing refineries, and the refiners have told us that they would rather expand capacity at existing refineries. We have never heard support from anyone inside the oil industry regarding the President's curious plan to build refineries on former U.S. military bases.

The economics of refining are not very good at the moment, as gasoline prices are not yet fully reflecting the jump in crude oil prices. U.S. refinery capacity is at about 85% utilization at the moment, as many refiners are losing money on every gallon of gasoline that they produce. Clearly, constrained refinery capacity is not our current problem.

Congress is not standing in the way of increased nuclear production capacity. In fact, Congress, over the past three years, has put in place one of the most favorable sets of incentives for nuclear power development anywhere in the world. For example, if a nuclear power plant is proposed for licensing, and is delayed because of a lack of action by Federal regulators, the proponents of the plant can get Federal payments to compensate for the delay. No wind power developer can get that kind of subsidy.

*If the Congress passes global warming legislation, it will serve as a powerful added incentive to promote nuclear power.*

Both Senator Bingaman and Senator Domenici's statements are available from the Senate Energy web site: <http://energy.senate.gov/public/index.cfm?FuseAction=Home.Home>.

## **Latest Government Analysis of Lieberman-Warner Climate Bill Shows Lowest Costs Yet [Press Release]**

WASHINGTON, D.C.—U.S. economic growth under the proposed Lieberman-Warner Climate Security Act would be virtually identical to growth in the absence of the law, according to an Energy Information Administration report released today. The agency is the official economic forecaster of the U.S. Energy Department.

In EIA's analysis of the market-based climate bill authored by Senators Joe Lieberman (ID-CT) and John Warner (R-VA), the cost to U.S. businesses of tradable allowances to emit greenhouse gas came in below even the modest figures projected by the Environmental Protection Agency last month.

"Two separate government analyses have now come to the same conclusion," said Lieberman. "Our bill curbs global warming without harming the U.S. economy."

According to EIA, U.S. GDP under the legislation would continue to grow. In 2030 it would hit a level just 0.3% lower than under a business-as-usual scenario. Even when EIA picked alternative, pessimistic assumptions regarding the cost and availability of clean energy technologies, the agency pegged the difference in 2030 GDP at less than 1%.

"I am pleased that the Energy Information Administration has confirmed what Senator Lieberman and I firmly believe: Americans can make significant reductions in our greenhouse gas emissions in a manner that does not harm the economy," said Warner. "Today's release of this latest analysis will only serve to validate our interest in moving a bill through the U.S. Senate as soon as possible."

EIA found that the Lieberman-Warner program would expand wind and solar energy use in the U.S. and cause carbon capture and storage technology for coal-fired electricity to come online by 2015. As a result, EIA found, the Lieberman-Warner bill would not cause electric power companies to increase their use of high-cost natural gas.

EIA also confirmed the EPA finding that increases in U.S. electricity prices would materialize slowly and gradually over time. EIA found that electricity rates would be only 5% higher in 2020 and 11% higher in 2030.

The Senate Environment and Public Works Committee voted to report the Lieberman-Warner Climate Security Act favorably to the full Senate last December. Majority Leader Harry Reid (D-NV) announced recently that the Senate will begin debating the measure in early June.

The full EIA analysis can be found at: <http://www.eia.doe.gov/oiaf/servicerpt/s2191/index.html>

## **Renewable and Climate Change News**

### **EIA Reports on Renewable Energy Consumption in the U.S.**

The Energy Information Administration (EIA) last week released a report on how much renewable energy we use in America.

The information came from data in 2006, when renewable energy sources (hydroelectric, geothermal, wind, solar, and biomass) met about 7% of our total energy needs, according to the article.

The bulk of renewable energy, 63%, goes to producing electricity. Most of the renewable-generated electricity in 2006 came from hydroelectric energy (75%), with geothermal at 4% nationwide, the article said.

The U.S. is second in the world for total renewable energy consumption, with China in first place, and Canada and Brazil in third and fourth.

The amount of renewable-generated electricity in the U.S. is expected to grow to 12.6% by 2030, the EIA projected.

The EIA gave two main reasons why we don't use more renewable energy: (1) it is capital-intensive, and (2) it is often geographically remote.

Tax credits, setting targets, and including markets with renewable projects are three ways to increase the use of renewable energy through policies, the article said.

*For the complete article, visit [http://tonto.eia.doe.gov/energy\\_in\\_brief/renewable\\_energy.cfm](http://tonto.eia.doe.gov/energy_in_brief/renewable_energy.cfm).*

## **Plenty Magazine Calls Geothermal Power “Sexy”**

An article in *Plenty* magazine called “Hot, wet, and steamy” features geothermal energy’s current use, new policies to support the growing industry, advantages that geothermal has over other renewables, and trends that could mean more support for geothermal in coming years.

The article (with the tag line “Geothermal just may be the sexiest power on the planet”) described geothermal energy’s environmental advantages. “Power plants are generally not described as sexy. Loud. Polluting. Unsightly. These are the more commonly used adjectives. But "sexy" is just how Paul Thomsen, public policy manager for Ormat, a geothermal power company, describes the boxy maze of ochre-colored pipes that make up Galena III, a company plant sitting between tawny hills on the outskirts of Reno, Nevada. Galena III just happens to be hot, too. Her low-lying pipes are filled with steam pumped in from 900 feet below ground that help turn a dozen turbines, which power a series of softly purring generators. Yet, Galena III is most bewitching for her production of 22 MW of electricity—roughly enough energy to power 22,000 homes—emitting virtually no greenhouse gasses in the process.”

The article also quoted GEA’s Karl Gawell, saying that renewable portfolio standards from states, which require utility companies to use a certain amount of renewable energy, will increase geothermal use, and that these types of policies help increase support from investors—key to the success of the industry.

Speaking of advantages over other renewables, the article pointed out that it does not disrupt ecosystems and is one of the only renewables considered a baseload power.

*For the complete article, visit <http://www.plentymag.com/features/2008/04/geothermal.php>*

## **State News**

### **California: BLM Denies Geothermal Lease Applications in Forest Service Area**

The Bureau of Land Management's California State Office in Sacramento was unable to allow leases for geothermal development at Mt. Shasta, according to the Mount Shasta Herald.

The BLM received five lease applications for the area, but rejected them because of regulations in the area from the United States Department of Agriculture Forest Service. The Forest Service notified the BLM that developments would have “adverse impacts to cultural and historical values,” according to the article.

“Mt. Shasta is an iconic landmark known world-wide for its beauty and spiritual significance,” the Forest Service report states. “Native American peoples especially hold Mt. Shasta in great reverence.”

“When a geothermal non-competitive lease application is received by the BLM for lands within the National Forest System, BLM must contact the appropriate National Forest where the applications have been applied for and request that the National Forest provide BLM with their decision to concur or not concur to leasing of the lands for geothermal exploration, development and utilization,” stated Deputy State Director Division of Energy & Minerals Richard Grabowski, in a March 2008 letter, according to the article.

For the complete article, visit [http://www.mtshastanews.com/articles/2008/04/30/news/08geo\\_denied.txt](http://www.mtshastanews.com/articles/2008/04/30/news/08geo_denied.txt).

## California: California Energy Commission Recommends Projects for Funding

The California Energy Commission has selected projects for funding. The selected projects were mainly development projects. The project that received the most funding was the Canby Geothermal Development project, which will drill a 4,000-ft well for a geothermal binary plant. Part of the results are given below, showing the recommended funding, average score, and rank for each of the applicants:

Table 1: Committee Funding Recommendations

California Energy Commission						
Geothermal Resources Development Account						
2007 Program Solicitation						
Project Type	Proposal #	Applicant	Proposal Title	Recommended Funding - \$	Average Score - Pts.	Rank
Development	14	Modoc Contracting Company	Canby Geothermal Development	1,485,000	95	1
Development	15	Calpine Operating Services Company, Inc.	Development and Demo. of Improved Steam Scrub. Tech. for Increasing Effective Steam Quality at Wellheads and Power Plants	1,191,772	91	2
Development	9	Geothermal Expandables, LLC	CPEX Self-Expanding Tubulars, Salton Sea RD&D Resource	890,750	91	3
Development	4	Ft. Bidwell Indian Community Council	Geothermal Well Testing/Assessment	146,242	85	4
Development	1	Esmeralda Truckhaven Geothermal LLC	Exploration and Assessment of the San Felipe-Truckhaven Geothermal Area, Imperial Co.	256,453	84	5
Development	16	Calpine Operating Services Company, Inc.	Reservoir Confirmation of the Buckeye Power Plant Area, Wildhorse State 36 Confirmation Well, Northwest Geysers, Sonoma Co.	1,703,465	83	6
Development	6	Ormat Nevada	Rapid and inexpensive reservoir assessment and modeling from passive seismic recordings	0	81	7
Development	7	Calpine Operating Services Company, Inc.	Detailed Magnetotelluric Survey of Glass Mtn. Geothermal Res. Targets	0	80	8
Development	11	Imageair, Inc.	3D Subsurf. Struct. In Geothermal Fields of CA from Ambient Seismic Noise Tomography and Passive Intage Interferometry	0	78	Did not pass
Development	8	Town of Mammoth Lakes & Iceland America Energy	Developing a Direct Use Geothermal Heating District for the Town of Mammoth Lakes	0	77	Did not pass
Development	12	Iceland America Energy, Inc.	LADWP Lands Test Well	0	73	Did not pass
Development	13	Iceland America Energy, Inc.	Wister Test Well	0	67	Did not pass
Development	17	CMH Environmental Group, Inc.	Walker 1	0	37	Did not pass
Development totals				13 proposals	5,653,662	

For the complete table from the California Energy Commission, see [http://www.energy.ca.gov/contracts/2008-05-01\\_GRDA\\_NOPA\\_TABLE1.PDF](http://www.energy.ca.gov/contracts/2008-05-01_GRDA_NOPA_TABLE1.PDF).

## **Nevada: Power Company Struggling to Keep Up with Demand for Renewables**

The Nevada Power Company is working on increasing its renewable energy sources to comply with policies to use certain amounts of renewables, says an article in *Mohave Daily News*.

The article says that the company is struggling in its efforts. Although Nevada has numerous developed renewables projects, their production still falls short of the goals for future use.

Geothermal is a major source for the company.

*For the complete article, visit*

<http://www.mohavedailynews.com/articles/2008/05/01/news/business/biz2.txt>.

## **Utah: Workshop Brings Attention to Utah Geothermal Potential**

An article in the Salt Lake Tribune drew on the geothermal energy workshop at Southern Utah University last week to talk about geothermal energy in Utah.

The workshop brought together experts from the field to explain geothermal energy and included a visit for attendees to an exploratory drilling operation.

The article mentioned Utah's vast potential for geothermal energy, and quoted Robert Blackett, a geologist with the Utah Geological Survey. Blackett told the newspaper that he sees great potential for developing in the Great basin. "I'm getting a lot more calls of people interested in it," Blackett said.

Visit [http://www.sltrib.com/business/ci\\_9089588](http://www.sltrib.com/business/ci_9089588) and [geology.utah.gov/sep](http://geology.utah.gov/sep).

## **Vermont: Study Suggests Geothermal Potential at Bellows Falls**

*Eagle Times* of New Hampshire printed an article citing sources that geothermal energy could be available at Bellows Falls in Vermont.

Pioneer Environmental of Vergennes, Vermont conducted a study of aquifers which found a hot water source a few hundred feet below surface.

Senior Hydrologist Meddie Perry, who had found studies performed in the 1970s, presented the study and said it should be looked into again, the article said. Perry has been working with the town and Rockingham Planning Commission to look into aquifers and places where water seeps in.

*For the complete article, visit*

<http://www.eagletimes.com/main.asp?SectionID=1&SubSectionID=4&ArticleID=6933&TM=665.477>.

## **International News**

### **Industry and Financial Networking Discussed at 4th International Geothermal Conference**

More than 200 attendees from 12 different countries participated in the 4<sup>th</sup> International Geothermal Conference in Freiburg, Germany on April 24. The Conference attendees represented a wide range of interests from the financial, industrial, economic, political, and scientific sector. GEA's Executive Director,

Karl Gawell was invited to make a presentation on the developments and outlook for geothermal energy in the United States. (see photo)

The conference provided a platform for international communication and networking. “There was a lot of discussion about risks,” noted GEA’s Director, “but the presentations and speeches pointed out that even though exploration and drilling risks, technology, and financing make geothermal energy use more complex, industry and financial investors are moving into the geothermal market in Germany and the European Union.”

“There were plenty of investors signaling deep interest to invest in geothermal projects,” affirmed Dr. Jochen Schneider, CEO of Enerchange, the organizer of the conference.

“The conference pointed out: The use of deep geothermal energy in Germany was moving ahead,” said Marcus Brian, CEO of Enerchange.

“The research of low-temperature geothermal energy use is a chance for German geothermal enterprises to gain know-how that could open up a future market,” said Alexander Richter, Glitnir Bank of Iceland.

“I found it interesting to learn about the developments in Germany, Switzerland, France, and other countries first hand. There are some exciting developments taking place, which could have important implications for geothermal projects in areas of the U.S. where deep resources are not now being utilized,” commented Gawell.



### **Australia: Queensland Issues Its First Geothermal Permit**

An article in Australia’s *The Age* reported that the Queensland government has issued its first geothermal exploration permit.

Granite Power Ltd was issued a permit for preliminary work, Mines and Energy Minister Geoff Wilson announced.

Nine sites in Queensland are marked for exploration.

See <http://news.theage.com.au/qld-geothermal-exploration-permit-issued/20080502-2a7v.html>.

### **Australia: Geothermal Could Power Mining**

An article in *The Age* discusses possibilities for geothermal powering of South Australia mining.

Geothermal could produce up to 520 MW for mining projects and remote communities, according to the geothermal company Petratherm, the article said. Petratherm has proposed transmission lines from its Paralana project to the site of BHP Billiton’s major uranium, copper, and gold mine.

See <http://news.theage.com.au/geothermal-energy-could-power-sa-mining/20080430-29j2.html>.

## **Australia: Mining and Geothermal Support SA Economy, Says Premier**

South Australian Premier Mike Rann spoke about the economy and mining, saying mining would be the dominant industry in South Australia for the next 100 years or more, according to news.com.au. Rann wants to see the benefits spread to everyone in the community.

He talked about the increase in the mining industry, and also mentioned his support of geothermal expansion, another industry that will benefit local and remote communities. South Australia contains 80% of the nation's spending on geothermal research, the article said.

"To date, 23 companies have applied for 235 geothermal exploration licenses here in South Australia," Rann said. "It also means our environment and our economy can gain from the development of a truly emissions-free and renewable energy source."

See <http://www.news.com.au/business/story/0,23636,23622037-31037,00.html>.

## **Canada: Geothermal A Potential Answer to Power Problems**

Western Canada should develop geothermal resources, according to an article in Toronto's *The Star*. Citing problems with oil-sands projects, coal plants, and the struggling economy, the article suggests that geothermal potential in the western parts of the country, though not widely explored, is there.

The article quotes Susan Petty, president of Altarock Energy Inc. in Seattle, who pointed out spots in Canada that could have potential. "In southern Ontario, near Lake Erie, they show some higher temperatures at depth," she said, adding that there are also locations just west of Ottawa and north of Peterborough.

For the complete article, visit <http://www.thestar.com/article/421359>.

## **Notices and Employment Opportunities**

### **Partnership Opportunity—Denver Federal Center Well Logging Calibration Facility**

The United States Geological Survey's (USGS) Central Regional Resources Office manages facilities and is responsible for the Bureau's overall environmental compliance. USGS is required to remove a scientific feature, a set of well logging calibration silos, from the Denver Federal Center property to allow for the transfer of title of such property as necessary for the Denver Regional Transportation District to complete its West Corridor Light Rail System. Specially configured rock within the silos with a known geophysical response can be removed and relocated in new calibration units. USGS is proposing to use the Technology Transfer Authority 15 USC 3710 a as amended, to relocate this capability to a new institutional home with the ability to construct or integrate this capability into a silo system that can utilize the granite formations contained in the current silos. A draft Statement of Work outlining the major steps necessary to accomplish the collaborative effort has been prepared and is attached to this notice. USGS estimates that a partner or partners will need to provide funds and or services with an estimated value of \$250,000 to \$300,000.

This is not a procurement; the partner in a Technology Transfer effort contributes funds, equipment and /or in-kind services to the research effort.

For more information on the science effort contact Marshall Fischer, 303-236-9338; email [mpfischer@usgs.gov](mailto:mpfischer@usgs.gov). For information on Technology Transfer mechanisms contact Julia M. Giller, Technology Transfer Office, (352) 399-2133 or [jgiller@usgs.gov](mailto:jgiller@usgs.gov).

*Contracting Office Address: U.S. GEOLOGICAL SURVEY, MANAGEMENT SERVICES BRANCH, P.O. BOX 25046, MS 205, DENVER, CO 80225 Appendix A \*

#### Illustrative Statement of Work

1. Plan, design and construct a geophysical tool calibration facility which incorporates the granite material provided by USGS as part of its design and operation at a location identified and under the management control of the Collaborator.
2. Transport granite material from the Denver Federal Center to Collaborator's designated calibration site for installation. The parties recognize that it may be necessary to utilize construction staging areas for interim periods between phased construction of the calibration facilities.
3. Provide a project schedule for identifying benchmarks or milestones related to the completion of the reestablished calibration facility and commencement of its operations as a scientific venture.
4. Provide a calibration facility operations plan which articulates relevant operations information about the facility including, but not limited to:
  - a. Illustrative examples of the anticipated users of the facility as well as illustrative examples of the types of organizations expected to access this resource,
  - b. Anticipated conditions, requirements, restrictions, etc. deemed necessary to safeguard the facility's integrity as a scientific unit and protect the operational environment, and
  - c. Policy and procedure to ensure reasonable and generally open access to qualified users of the calibration facilities.

USGS recognizes that facility user fees may be necessary to provide for the sustained operations of the facility. However, the Bureau anticipates that fee decisions will fully consider the opportunity to maximize the scientific benefits of this facility and consequently provide, as might be necessary, reduced fees for small businesses, government entities, and non profit organizations. As indicated in the text of the Agreement, for two years following the date of execution of this Agreement, no fees will be assessed for U.S. Government Agencies or Departments to access the reestablished calibration facility.

*Contracting Office Address:  
U.S. GEOLOGICAL SURVEY, APS BLDG 53 DFCMS 205 DENVER CO 80225*

#### **CORRECTION**

The story in the April 14 GEA Weekly Update, "New Program Director Selected for DOE Geothermal Efforts," was in error. We apologize for any inconvenience.

#### **Requests for Proposals (RFPs)**

##### **RFP for Renewable Power Projects—Southern California Edison (Due May)**

Southern California Edison is looking for both short-term and long-term contracts for projects that produce solar, wind, biomass, and geothermal energy, according to a release. All proposals are welcome, but the company is especially interested in the Tehachapi area of Kern County.

Proposals are due in May 2008. SCE hopes to submit completed contracts to the California Public Utilities Commission by December.

Contact [vanessa.mcgrady@sce.com](mailto:vanessa.mcgrady@sce.com). Visit the Southern California Edison Web site at <http://www.sce.com/>.

## **RFI for Enhanced Geothermal Systems Technologies Validation Site(s) —U.S. Department of Energy (Due May 30)**

Information on the U.S. Department of Energy's Geothermal Technologies Program Pre-Solicitation Meeting, which will discuss this announcement, is available in the **Upcoming Events** section of this newsletter.

### Request for Information DE-PS36-08GO38003: Enhanced Geothermal Systems Technologies Validation Site(s)

The Department of Energy is seeking information from the geothermal community to assist in the development of a possible Funding Opportunity Announcement, acquisition, or other procurement option in regard to establishing Enhanced Geothermal Systems Technologies Validation Site(s). This will facilitate high risk technology development, validation, and deployment by participating organizations that would not otherwise take place at a commercial geothermal field. The information gathered from this RFI will be used by DOE for internal planning and decision making purposes, and will not be released to the general public.

*The RFI will be listed at <http://e-center.doe.gov/iips/faopor.nsf/Solicitation%20By%20Program%20Office?OpenView&Start=1&Count=30&Expand=3#3> for comment. Comments in response to this RFI must be provided to the DOE Golden Field Office as an attachment to an e-mail message to [RFI-08GO38003@go.doe.gov](mailto:RFI-08GO38003@go.doe.gov). Comments must be provided no later than 8 p.m. EDT, on May 30, 2008.*

## **Renewables Purchase—Virginia, W. Virginia and Tennessee (Due May 30)**

American Electric Power Service Corporation seeks up to 100 MW of long-term supply from new renewable energy resources on behalf of Appalachian Power Company.

*Responses due 5/30/08. For more info, contact Peggy Simmons at [pisimmons@aep.com](mailto:pisimmons@aep.com) or go to: <http://www.appalachianpower.com/go/rfp/>. (Green Power Network 4/11/08)*

## **RFP Climate Change and Sustainability Conferences (Due June 5 and December 9)**

The U.S. Environmental Protection Agency has issued a Broad Agency Announcement for Conferences, Workshops, and/or Meetings. EPA seeks applicants for the planning, arranging, administering and/or conducting of conferences and workshops in areas including, but not limited to: Economics and sustainability; air and global climate change; and technology. \$500K expected to be available, up to 15 awards anticipated. Proposals due 1/7/08, 6/5/08 and 12/9/08.

*For more information, contact Bernice Smith at [smith.bernicel@epa.gov](mailto:smith.bernicel@epa.gov) or go to [http://es.epa.gov/ncer/rfa/2008/2008\\_baa.html](http://es.epa.gov/ncer/rfa/2008/2008_baa.html). Refer to Sol# EPA-C2008-BAA. (Grants.gov 12/6/07)*

## **RFP for Energy Frontier Research Centers—U.S. Department of Energy (Due October 1)**

The U.S. Department of Energy requests proposals for Energy Frontier Research Centers (EFRCs) to accelerate the rate of scientific breakthroughs needed to create advanced energy technologies for the 21st century. The EFRCs will pursue the fundamental understanding necessary to meet the global need for abundant, clean, and economical energy. Through this initiative, DOE seeks to bring together the skills and

talents of multiple investigators to enable fundamental research of a scope and complexity that would not be possible with the standard individual investigator or small group research project. \$500 million expected to be available, up to 50 awards anticipated.

*Responses due 10/1/08. For more info, contact Emiela Bradford at [emiela.bradford@ch.doe.gov](mailto:emiela.bradford@ch.doe.gov) or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/933104E42D0185E58525742100694C78?OpenDocument>. Refer to Sol# DE-PS02-08ER15944. (Grants.gov 4/4/08)*

## **Upcoming Events**

### **EESI Briefing, Can Renewable Energy Meet the Urgent Challenge of Climate Change?, May 6, Washington, DC**

The Environmental and Energy Study Institute (EESI) invites you to a briefing on the critical role renewable energy electricity generation technologies can play in reducing U.S. greenhouse gas (GHG) emissions. The climate challenge is urgent, with the UN Intergovernmental Panel on Climate Change (IPCC) finding that global GHG emissions need to peak and begin declining before 2015 if we are to avoid the most damaging effects of climate change.

Renewable energy can play a key role in meeting the challenge of climate change because it can respond to the short time frame needed to address climate mitigation, the United States has a large and widespread renewable energy resource base, and renewable energy is not subject to price volatility such as seen with natural gas. What has not been ever explored is what renewable energy can do if given a full-out effort by the United States. Other countries, in addressing the urgency of climate change, have made renewable energy a fundamental component of their climate strategies. As a result of these all-out efforts, we have seen explosive growth in jobs and renewable energy technology deployment in many countries, including Germany, Japan, Denmark, and Spain.

The briefing will discuss key federal policies needed to allow renewable energies to achieve their full potential in climate change mitigation in the near and long-term. It features several renewable energy industry associations as well as a respondent from the public interest community:

- Randy Swisher, Executive Director, American Wind Energy Association
- Karl Gawell, Executive Director, Geothermal Energy Association
- Jeff Leahey, Senior Manager of Government and Legal Affairs, National Hydropower Association
- John Stanton, Executive Vice President, Solar Energy Industries Association

Respondent:

- John Coequyt, Senior Washington Representative, Global Warming and Energy Program, Sierra Club

According to the Congressional Research Service, more than 280 bills on energy efficiency and renewable energy have been introduced in the 110th Congress. At least seven economy-wide cap-and-trade proposals have been put forward in the same time frame. Senate Leader Harry Reid (D-NV) has said that the Lieberman-Warner Climate Security Act of 2007 (S. 2191) will be given Senate floor time on June 2. All three major Presidential candidates support mandatory national climate legislation. While putting a price on carbon through "cap-and-trade" or carbon tax legislation will help address GHG emissions, complementary policies to spur additional renewable energy and energy efficiency development will be needed to address the climate and energy challenges facing the United States.

Tuesday, May 6, 2008  
2:30 pm–4:00 pm  
253 Russell Senate Office Building

This briefing is free and open to the public. No RSVP required. Please forward this notice. For more information, contact Fred Beck at [fbeck@eesi.org](mailto:fbeck@eesi.org) or 202-662-1892.

### **Department of Energy Loan Guarantee Discussion Meeting, May 8, Palo Alto, CA**

Check <http://www.lgprogram.energy.gov/> for more information.

### **Groundbreaking Ceremony and Press Conference, Raser Technologies, May 9, Beaver County, UT**

Raser Technologies, Inc. will hold a groundbreaking ceremony for beginning the construction phase of a geothermal power plant built in Beaver County, Utah. It will be followed by a press conference at the Energy and Geoscience Institute (EGI) building on the University of Utah campus in Salt Lake City, Utah. See release under **Company News** of this newsletter.

The groundbreaking ceremony is scheduled for May 9, 2008, at the power plant project site in Beaver County at 11:00 a.m. local time. The press conference is scheduled for 2:00 p.m. local time at the offices of EGI on the University of Utah's campus at 423 Wakara Way, Salt Lake City, Utah.

### **Geothermal Energy Working Group Meeting, May 13, Santa Fe, NM**

Date: Tuesday, May 13, 2008

Location: Porter Hall, Wendell Chino Building, 1220 South Saint Francis, Santa Fe, NM

Time: 8:00am–4:30pm

#### Meeting Overview:

This meeting will provide a forum on the exchange of information concerning the development of geothermal energy projects in New Mexico. Topics include but are not limited to: Ground Source Heat Pump Technology, Direct Use, District Heating Applications and Electricity Production.

#### Specific Goals of the Meeting Include:

- Updates on Strategic Planning action items for the working group
- Status of geothermal projects in NM
- Identify and discuss challenges concerning geothermal development in NM
- Sustainability of GSHP systems
- Discussion of drilling techniques and costs

#### Tentative Schedule:

8:00am—Sign in, Welcome

8:30am–Noon—Presentations

Noon–1:30pm—Lunch on your own

1:30–2:30pm—Presentations

2:30–4:00pm—Round Table Topics

4:00–4:30pm—Action Items, Adjourn

*For information, contact Steve Lucero at 505.476.3324 or [stephen.lucero@state.nm.us](mailto:stephen.lucero@state.nm.us).*

### **Western Renewable Energy Zones Project Kickoff, May 28, Salt Lake City, UT**

The Western Governors' Association has launched a new initiative—the Western Renewable Energy Zones project—aimed at bringing more renewable resources online within the Western Interconnection as quickly as possible.

All interested parties are encouraged to attend the kickoff meeting of the WREZ Steering Committee on May 28, 1–5 p.m. at the Sheraton City Center in Salt Lake City. Steering Committee members include governors, Canadian premiers and public utility commissioners, or their representatives. Federal officials from the U.S. Departments of Energy, Interior, and Agriculture, as well as the Federal Energy Regulatory Commission, will serve as ex officio members.

The goal of the project is to identify renewable energy zones based on common transmission needs, developable potential, timeframes, and the cost of development. Conceptual transmission plans to priority zones will be prepared to facilitate the environmentally sensitive development of the most cost-effective renewable resources. All feasible renewable resource technologies will be evaluated.

A Technical Committee comprising representatives from the states and provinces will coordinate stakeholder participation and the development of reports for the Steering Committee to consider. Stakeholder work groups will be created to: 1) develop criteria and perform the technical analysis for zones; 2) address environmental, land use and permitting issues; and 3) consider modeling options related to generation and transmission development and coordinate stakeholder involvement.

Anyone interested in attending the meeting and/or participating on a work group may do so by going to: <http://www.regonline.com/Checkin.asp?EventId=616661>.

*Questions about the meeting may be e-mailed to the project manager, Rich Halvey, at [rhalvey@westgov.org](mailto:rhalvey@westgov.org).*

## **UNCON FUEL 2008, May 28–29, Houston, TX**

John A. Baardson, president and CEO, Baard Energy, will lead an impressive speaker list at SYNGAS Refiner’s UNCON FUEL 2008, an unconventional transportation fuel and feedstock forum to be held in Houston, May 28 & 29 at the Marriott Westchase ([www.SyngasRefiner.com/UNCON](http://www.SyngasRefiner.com/UNCON)).

Idaho National Laboratory and Baard conducted coal-to-fuel plant simulation studies, concluding that CO<sub>2</sub> emissions from CTL fuels can be materially lower than emissions from traditional diesel.

Baard Energy’s 50,000-b/d Ohio River Clean Fuels (ORCF) plant will use a coal/biomass feedstock to produce diesel, jet fuel and a pure CO<sub>2</sub> stream. Baardson will discuss how CTL plant developers can profitably incorporate biomass into the production of Fisher-Tropsch diesel.

U.S.CTL production could be supplying half the U.S.military’s fuel requirements by 2015 and 70% by 2045. On the other hand, China, India and South Africa appear to be the leaders in this area, building numerous plants in the nominal 80,000-b/d range, while smaller U.S.CTL plants are being designed for roughly half that capacity.

Other UNCON FUEL 2008 speakers will address coal-based methanol-to-gasoline technologies, the CENTIA gasoline process and the Synfuels International process. View the full agenda online at [www.SyngasRefiner.com/UNCON](http://www.SyngasRefiner.com/UNCON).

Early registration is \$997 through next Monday, April 21 and can be made online at <https://www.zeusdevelopment.com/secure/uncon/register.asp>

To register over the phone or for questions, please contact us at 713.952.9500.

## **Geothermal Technologies Workshops, Western Area Power Administration, June 10-11 (Westminster, CO) and August 11-12 (Everett, WA)**

Western Area Power Administration (Western) is hosting two Geothermal Technologies workshops. Their theme is “Electric Utilities’ Roles in Promoting Geothermal Energy Technologies”. They are cosponsored

by the American Public Power Association (APPA), the National Rural Electric Cooperative Association (NRECA), and the Utility Geothermal Working Group (UGWG).

The target audiences for these workshops are utility staff who are interested in learning about geothermal technologies—including geothermal heat pumps (GHP) and geothermal power production—who want to compare them with other resource options, or who want to learn how to improve on existing programs. Through class presentations, case histories, and demonstrations, attendees will learn about

Cost effectiveness tests of GHP from the utility and customer perspectives  
Case histories of GHP systems energy savings over conventional HVAC systems  
How GHP programs qualify as energy efficiency programs  
New drilling and installation techniques  
Cost comparisons of geothermal power and other resource options

Georg Shultz the Director, Electric Staff Division for the USDA's Rural Utility Services (RUS), will give an update on the RUS's work with cooperatives on promoting Geothermal technologies in rural areas. Additional agenda details and other information are on the following pages. Both workshops are similar in structure and content.

Workshop fees are \$90 for one day and \$125 for both days. Reduced fees for APPA, NRECA, NWPPA, and State Working Group members and Western Customers are \$60 and \$90. If you wish to attend, please fill out the registration form on the following page and send a check to made payable to Utility Forum Connection and mail to:

Utility Forum Connection  
PO Box 255  
Lincoln City, OR 97367

Questions? Contact Guy Nelson, [energyguy@utilityforum.com](mailto:energyguy@utilityforum.com) or (541) 994-4670.

## **SMU Geothermal Conference, June 17–18, Dallas, TX**

Southern Methodist University will put on a Geothermal Conference June 17–18. This international conference specializes in the enhancement of existing oil & gas wells for electrical production. According to SMU, “Geothermal energy can be extracted from the well fluids using newly designed compact turbines with binary fluids. These systems are now sized to fit single wells or multiple wells with an approximate fluid temperature differential of 120°F+ between produced and cooling temperatures. Thus, in the Gulf Coast, temperatures of 225°F or higher are eligible. This electrical production (geothermal energy) is renewable and considered a baseload source and is capable of producing 24 hours a day. This capability gives new life to low yield producers with high water volume and a reason to keep them pumping. Undesirable high water flow geopressure wells become an immediate revenue path if converted to electrical production. With a system installed in Chena Hot Springs, Alaska and another installation going into the Wyoming Rocky Mountain Oil Field Testing Center, the ability to use low temperature fluids is no longer just a concept, rather it's a reality. New technology, data, and economics will be presented to assist you in developing your company's renewable energy portfolio using existing wells.

Topics Presented To Include:

- Power Generation Technology Advancements
- Geothermal Resource Exploration and Assessment
- Reservoir Engineering
- Fracturing
- Geopressure Development
- Tight Gas Sands Development
- Well Longevity—Corrosion and Scaling Management
- Enhanced Geothermal Systems – International

- Green Power for Utilities (RECs)
- Economics and Business Plan
- Transmission needs
- Regulations and Leasing
- Financing
- Demonstration Sites

*For more information and to read the Call for Papers, visit [http://smu.edu/geothermal/Oil&Gas/2008/Geothermal\\_Energy\\_Utilization.htm](http://smu.edu/geothermal/Oil&Gas/2008/Geothermal_Energy_Utilization.htm).*

## **2008 California Geothermal Summit, June 25, 2008, Davis, CA**

The California Geothermal Energy Collaborative will be holding the 2008 California Geothermal Summit at the UC Davis Alumni and Visitors Center in Davis, California on Wednesday, June 25, 2008 from 9 a.m. to 4 p.m.

Sessions will cover the Energy Commission's new integrated approach to renewables with the formation of the California Renewables Energy Collaboratives, an update on the CGEC Development Plan with a major focus on the next two years, status report on the California RETI transmission task force as it relates to geothermal development, California State Policies and Incentives to Promote Geothermal Energy, a Bureau of Land Management (BLM) presentation on the Draft of the Western Geothermal Programmatic Environmental Impact Statement (PEIS), and other topics under development.

More information on registration, accommodations and a draft agenda will be provided by the end of April on the CGEC web site and distributed by email.

Immediately following the Summit, from 5:30 to 8:30 p.m., and at the same location, BLM is planning to hold its California-wide Public Meeting for the Draft of the Western Geothermal PEIS. BLM indicated that the California Geothermal Energy Collaborative draws together the broadest interests from across the state, which will provide an excellent opportunity for soliciting comments and maximizing exposure of the Draft.

## **GEA "Geothermal 101" Workshop, July 23, New York City**

GEA is planning a workshop in New York City on July 23<sup>rd</sup> to introduce the City's finance and media communities to the geothermal industry. For those interested in supporting or sponsoring the day-long event, please contact Kathy Kent at 202-454-5263, or by email at [kathy@geo-energy.org](mailto:kathy@geo-energy.org).

## **Oregon/Washington Geothermal Lease Sale, July 24**

Note: This sale has been postponed from June 12, and nominations are still being accepted.

The Bureau of Land Management's Oregon/Washington State Office had proposed to hold a geothermal resources lease sale on June 12, 2008. We received nominations for several parcels, and contacted the Forest Service and our District Offices.

The Forest Service responded that more environmental studies must be done in the Newberry Volcanic Area before a sale could be held. The Forest Service estimates that they will have leasing consent decisions by October 2008 at the earliest.

The new proposed sale date for parcels located in the Glass Butte area (Lake and Harney Counties) is July 24, 2008. The new date will allow the district to review sage grouse lek data to meet the required environmental review.

We are still accepting nominations for future sales. Nominations are not automatically placed on a sale when received, and BLM cannot guarantee that the nominated lands will always be included on a particular sale notice. The parcels must be reviewed for availability, and for environmental and cultural concerns prior to being placed on a sale. Sale parcels will normally be configured as requested; however, BLM reserves the right to adjust the parcel size and configuration as needed.

Each nomination must be submitted with a nonrefundable filing fee of \$100 per nomination plus \$0.10 per acre of lands nominated. If a land parcel consists of fractional acreage, please round the land acres up to the nearest whole acre.

Sale notices, results lists, and Form 32031 will be posted on our website at:  
<http://www.blm.gov/or/energy/geothermal/index.php>

If you have questions regarding this notice, please call Donna Kauffman at 503-808-6162; write to the attention of OR936.2 at the address on this letterhead; or send electronic mail to [Donna\\_Kauffman@or.blm.gov](mailto:Donna_Kauffman@or.blm.gov).

*For updates on geothermal developments from the BLM, visit <http://www.blm.gov/or/energy/geothermal/>.*

## **Renewable Energy Philippines 2008, August 28–30, Manila, Philippines**

This is the First International Exhibition & Conference on Renewable Energy in the Philippines.

Renewable energy is getting more and more attention because of global warming. Renewable Energy Philippines 2008 is a link to enable the U.S. Renewable Energy providers, manufacturers, and researchers to go overseas and encourage other countries to invest in environment friendly energy sources.

Asian Development Bank & World Bank will speak on Future Carbon Fund, Carbon Finance Program, and support of CDM Projects.

August 28–30, Hall 3, SMX Convention Center  
Metro Manila, Philippines

The exhibition provide a one-stop B2B and technology exchange platform for equipment manufacturers and suppliers, project operators, financing institutions, oil & gas producing companies, state-owned companies and relevant Government Agencies to meet and do business under one roof and venue. Exhibition profile include all equipment, technology applications and projects available for investment to the following fields of interest:

- Alternative Fuels
- Gas Energy
- Geothermal Energy
- Hydro Energy
- Ocean Energy
- Solar Energy
- Wind Energy
- Others—Battery, Energy Bank, Energy Saving Products, etc.

For more information, contact: TDC EVENTS INTERNATIONAL INC., 1504 FRANCISCO STREET  
BERKELEY, CA 94703

USA Contact: Maria Gomez, Tel: +1 305 4365751, Fax: +1 305 4365352, Cel: +1 305 7722549, e-mail:  
[maria@andinalink.com](mailto:maria@andinalink.com)

Latin America Contact: Andrea Valencia, Tel: +571 4821717, Fax: +571 3128782, e-mail: [andrea@andinalink.com](mailto:andrea@andinalink.com)

Web site: [www.dp-link.com](http://www.dp-link.com)

## **GEA Trade Show/GRC Annual Meeting, October 5–8, Reno, NV**

The GEA Trade Show and GRC Annual Meeting will take place October 5-8 Peppermill in Reno, Nevada. Annually, Geothermal Energy Association hosts a wide range of companies working in the U.S. and abroad within the geothermal power industry at its Trade Show. Last year in Reno/Sparks, Nevada, 71 booths were visited by over 1000 visitors. With dramatic growth underway in geothermal power projects in the U.S. and internationally, we expect the 2008 trade show in Reno to be our largest event yet!

*For more information about the GEA Trade Show, visit [http://www.geo-energy.org/2008\\_ts/index.htm](http://www.geo-energy.org/2008_ts/index.htm).*

*For information about the GRC Annual Meeting, go to <http://www.geothermal.org>.*

## **2nd African Rift Geothermal Conference, November 25–29, Entebbe, Uganda**

The second International Geothermal Conference on the African Rift will be held in Entebbe, Uganda. The conference is designed as a forum for the exchange of information on the African Rift Geothermal Resources and for discussion of the current state of scientific knowledge and understanding of all aspects of exploration and development of geothermal resources, including exploration, field and conversion technology, design and construction, environmental considerations, financial, marketing, and operational aspects.

### **Scientific Program**

The Scientific Program of the conference consists of Plenary Lectures, Poster presentations, Workshop and Field Trips. The structure and the list of sessions below are preliminary.

A number of Keynote addresses will be given by eminent scientists, on subjects relevant to the main themes of the conference (as indicated in this circular). Lectures will be open to all participants and will take place in a large conference hall.

### **Sessions**

The following will be the themes for oral and poster sessions:

- Session 1: Exploration: Geology, Geophysics, Geochemistry, and Hydrology
- Session 2: Drilling and well design: Shallow and deep, Production and Injection
- Session 3: Field development, Production Technology, Power generation & Operation.
- Session 4: Reservoir Engineering: Well Testing, Injection, and Modeling
- Session 5: Case Histories
- Session 6: Economics and Financing
- Session 7: Environmental, Social, Legal and Institutional Aspects
- Session 8: Direct Use: Agri- and aquaculture, Mineral extraction, Manufacturing, Air conditioning etc.

### **Contributions**

The organizers of ARGeoC2 welcome submission of titles/extended abstracts for oral and poster presentations from all geoscientists, engineers and others involved in geothermal resources exploration and development. Authors may submit papers for publication only, or for presentation and publication in “The Conference Proceedings”. Papers may be selected for presentation in a technical session, or poster session. Selection of papers for presentation will be based on subject material suitability, professional standards of writing, and quality of the illustrations. Time allotted for oral presentations will be 15 minutes each, with an additional 5 minutes for discussion. Oral presentations will be illustrated with LCD Projector in PowerPoint.

For more information and to register, contact Department of Geological Survey and Mines, Plot 21–29, Johnstone Road, P.O Box 9, Entebbe, Uganda. Phone: +256 712 812231, +256 712 835843, +256 773 129941. Fax: +256 414 320364. E-mail: [argeoC2@minerals.go.ug](mailto:argeoC2@minerals.go.ug) or [bahati@minerals.go.ug](mailto:bahati@minerals.go.ug).

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### ***GEA Update***

A newsletter for GEA Members written by Leslie Blodgett and Karl Gawell.  
For more information contact GEA at: 209 Pennsylvania Avenue SE, Washington, D.C. 20003. Phone: 202-454-5261; Fax: 202-454-5265; E-mail: [research@geo-energy.org](mailto:research@geo-energy.org)