



# GEO THERMAL ENERGY ASSOCIATION

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## **National News**

### **Geothermal Energy Industry Looks to New Administration Agenda to Support Substantial New Growth; President-Elect Obama Wants New Energy Economy**

Following the announcement that Senator Barack Obama would be elected the next president of the United States, there was immediate attention to the impact his policies would have on renewable energy. Press widely reported an enthusiastic response from the renewable community toward the new president-elect’s agenda.

“The new Administration has placed a high priority on promoting geothermal and other renewable energy technologies,” commented Karl Gawell, Executive Director of the Geothermal Energy Association. “The geothermal industry will see substantial new growth in the years ahead if President Obama and Congress can quickly follow through with their agenda.”

Among key Obama-Biden priorities affecting renewable energy are:

- A five year extension of the federal Production Tax Credit (PTC)
- A national renewable energy standard to ensure that 10% of electricity consumed in the U.S. is derived from clean, sustainable energy sources, like solar, wind, and geothermal by 2012, and 25% by 2025
- Investing \$150 billion over the next ten years into clean energy technologies.

Gregory Wetstone of the American Wind Energy Association said that he was eager to work with a president whose policies “for the first time will reflect a national commitment to renewable energy.” He noted, Obama is a “strong supporter of policies that are critical for wind growth,” such as a national renewable portfolio standard, a long-term extension of a tax credits, and backing for investment in transmission.

Rhone Resch of the Solar Energy Industry Association said he supports a “new generation of leaders” with pro-clean energy policies and called for Obama to begin work on his promise of 5 million green jobs.

A key portion of the official “Obama-Biden” energy policy statement states:

Require 10 Percent of Electricity to Come from Renewable Sources by 2012. Barack Obama and Joe Biden will establish a 10% federal Renewable Portfolio Standard (RPS) to require that 10% of electricity consumed in the U.S. is derived from clean, sustainable energy sources, like solar, wind, and geothermal by 2012. Many states are already well on their way to achieving statewide goals and it's time for the federal government to provide leadership for the entire country to support these new industries. This national requirement will spur significant private sector investment in renewable sources of energy and create thousands of new American jobs, especially in rural areas. And Barack Obama and Joe Biden will also extend the federal Production Tax Credit (PTC) for 5 years to encourage the production of renewable energy.

Additional details and information on the Obama-Biden energy plan area available at <http://my.barackobama.com/page/content/newenergy>.

See also <http://greeninc.blogs.nytimes.com/2008/11/05/renewable-energy-industry-says-the-future-looks-bright/>, <http://www.emps2.com/Obama.html>

## **2008 Elections Re-Shape Congress, Congressional To Return for Lame Duck Session**

The elections have added to Democratic majorities in both the Senate and House, but the margin in the Senate did not reach the 60 vote threshold that would give the Democrats a filibuster-proof majority.

Six new Democratic Senators will be Kay Hagan (D-NC), Jeff Merkley (D-OR), Jeanne Shaheen (D-NH), Mark Udall (D-CO), Tom Udall (D-NM), and Mark Warner (D-VA). Based upon these election results alone, the Democrats would hold a 57–43 majority in the Senate, a six-seat gain. But there are still several seats to be decided. The race between Norm Coleman (R) and Al Franken (D) in Minnesota is headed for a recount, and the race in Georgia resulted in no one achieving a 50% majority, triggering a run-off election in December.

Senate Majority Leader Harry Reid (D-NV) and Senator Joe Lieberman (I-CT) have been having private discussions about whether and under what conditions he would be aligned with the Democrats in the coming Congress. Also, the fate of Ted Stevens (R-AK) is undecided. Finally, both Senators Obama (D-IL) and Biden (D-DE) will need to step down, and both are expected to be replaced by new Democratic Senators. In all, there could be ten new Senators in the next Congress once all of these seats are decided.

Democrats also gained seats in the House of Representatives. Of the 34 open congressional seats the Democrats gained 16 based upon returns to date, but more than a dozen incumbent Republicans lost their bids for reelection. In the current House line-up, Democrats have a 236 to 199 majority. While some races are still being counted or contested, it is estimated that when Congress convenes in January the Democrats will hold at least 254 seats.

Congress will return the week of November 17th for a lame duck session. House Speaker Nancy Pelosi (D-CA) has raised the prospects that Congress will try to consider an additional economic stimulus package during this session, which could include funding for alternative energy infrastructure projects and green jobs around the country, according to experts.

Whether this package is enacted will depend upon the willingness of President Bush and the Congressional Republicans to be cooperative. The lame duck Congress is also expected to consider omnibus lands and parks legislation that stalled during the waning days of the last Congressional work period in September. Congressional leaders will also use this period to begin organizing for the 111th Congress.

See <http://www.electoral-vote.com/> and <http://abclocal.go.com/kgo/story?section=news/politics&id=6490752>.

## **DOE May Implement 2007 Geothermal Research Provisions in FY 2010 Budget, Secretary of Energy Tells Senator Murkowski**

Secretary of Energy Samuel W. Bodman responded on October 23 to a July 14 letter from Senator Lisa Murkowski regarding the Department of Energy's Geothermal Technology Program. "The Department shares your view that geothermal energy is one of [the domestic energy] options and is working to pursue that opportunity consistent with congressional authorizations and appropriations." The letter went on to state that DOE will be looking towards implementing the 2007 energy bill's geothermal research provision in the FY 2010 budget.

Earlier in 2008, Senators Wyden and Murkowski sent a letter to Secretary Bodman urging DOE "to initiate a bold new geothermal research program as authorized and directed by HR 6 to develop and deploy advanced technology across the spectrum of geothermal resources..." That letter was also signed by Senator Reid, Senator Craig, Senator Bingaman, Senator Smith, Senator Salazar, Senator Crapo, Senator Sanders, Senator Hatch, Senator Akaka, and Senator Tester.

The October 23 letter speaks positively about geothermal energy and the Departments support for it, listing recent Funding Opportunity Announcements and the Title XVII loan guarantee program. It also states, "As the Department considers its FY 2010 budget request, consideration will be given to the broader authorization provided by the Energy Independence and Security Act of 2007 (EISA) for the Geothermal Program. The Department recognizes the importance of developing geothermal resources as a significant contributor to renewable baseload power generation."

The Energy Act of 2007 included provisions authorizing an annual \$95 million geothermal research program at DOE. These provisions, entitled the Advanced Geothermal Energy Research and Development Act of 2007, covered a range of research needs from Advanced Hydrothermal Resource Tools to Enhanced Geothermal Systems.

## **Article Considers Potential Names for New Secretary of Energy**

From Sustainable Energy Coalition/SUN DAY Campaign, [Door Opens on Cabinet Speculation](#)

President-elect Obama is considering longtime Democratic players to fill some of his administration's most important positions. For Energy, several lobbyists said Philip Sharp, a former Democratic congressman from Indiana and current president of Resources for the Future, is under consideration. Sen. Jeff Bingaman (D-NM), the current chairman of the Senate Energy and Natural Resources Committee, is also a possibility. Obama has already said energy policy will be his top priority, and his campaign had no shortage of advisers on the topic. Other frequently mentioned names that could help shape energy and environmental policies include Jason Grumet, Elgie Holstein, Robert Sussman, Todd Atkinson and Heather Zichal. Several people said Kathleen McGinty, former chairwoman of the Council on Environmental Quality, is a leading candidate to run the Environmental Protection Agency. Mary Nichols, the chairwoman of the California Air Resources Board, is another possibility. [Editorial note: Robert F. Kennedy Jr.'s name has also been floated for the EPA post.] Rep. Jay Inslee (D-WA), who wrote a book on the threat posed by global warming, is also in the running for Interior.

See <http://thehill.com/leading-the-news/door-opens-on-cabinet-speculation-2008-11-05.html>.

## **Voter Rejection of 2008 California Clean Energy Initiatives Not a Major Setback for State's Climate Change Programs**

By John McCaull, Western States Representative for the Geothermal Energy Association

November 6, 2008. Two initiatives (Propositions 7 and 10) that purported to deliver a "clean energy" future to the Golden State went down to defeat on Tuesday night. The rejection of both of these measures

by California voters is a complex story of out-of-state proponents taking on the political establishment through the initiative process, conflicts over turf, language drafting problems, and ultimately facing an electorate who had a lot on their mind.

Each initiative chose a seemingly important piece of a much larger debate going on in California about how to address climate change, assert energy independence, and promote renewable energy sources on a much larger scale than ever attempted.

The [initiative text for Proposition 7 \(The Solar and Clean Energy Act of 2008\)](#) states the measure's intent is to "Tap proven technologies such as solar, geothermal, wind, biomass, and small hydroelectric to generate clean energy throughout California and meet renewable energy targets without raising taxes on any California taxpayer."

A cornerstone of Prop. 7 — according to the "[Yes on 7](#)" website — was the requirement of "all California utilities — including government-owned utilities like the Los Angeles Department of Water and Power — to procure electricity from solar and clean energy resources." Under the initiative, renewable energy procurement requirements for utilities were to ramp up to 20% by 2010, 40% by 2020, and 50% by 2025.

Prop. 7's highly detailed legislative language was an exercise in redrafting current statutes, not making a new law or program through the initiative process. In other words, it dove right into the subsections of the California Public Utility Code, and this had the immediate effect that everyone who was working on the same issues in the Legislature and the Governor's office began questioning why this measure was going to the ballot and not being introduced as a bill, subject to public hearings, possible amendments, and negotiations.

Prop. 7's fate illustrates the perils of not honoring the domain of the Legislature, state regulatory agencies, and powerful stakeholders on a key policy issue (i.e., the state's renewable energy portfolio standard), which is very much a part of legislative priorities planned for detailed consideration and debate in 2009.

The "No on 7" campaign didn't pull any punches. [Californians Against Another Costly Energy Scheme's](#) Web site (sponsored primarily by renewable energy companies such as wind and solar generators) says that "Prop. 7 is a deeply flawed measure, put on the ballot by an out-of-state billionaire with no energy expertise."

The "out-of-state billionaire" is Peter Sperling, who donated approximately \$7.25 million in support of Prop. 7. Mr. Sperling was ranked by Forbes in 2006 as the 562<sup>nd</sup> richest individual in the world with a total wealth of over \$1 billion. He is the son of the founder of the private Phoenix College system. Steve Hopcraft, the campaign spokesman for Prop. 7, said that Mr. Sperling is "deeply interested in the global warming and climate change debate." Mr. Sperling collaborated on Prop. 7 with former San Francisco Supervisor Jim Gonzalez and a legal team led by former State Senator Martha Escutia from the Manatt, Phelps & Phillips firm.

Ultimately, the political problem for Prop. 7 became "Who doesn't oppose it?" Several coalitions and campaign committees formed with differing memberships of environmental groups, renewable energy providers, taxpayer advocates, consumer agencies, private and public utilities, the California Chamber of Commerce, labor groups, the state's largest investor-owned utilities and both major political parties.

Then there was the age-old problem of interpreting highly complex legislative policy in the "one shot" nature of an initiative statute. The strongest argument of the wind and solar industry opponents was that Prop. 7 would exclude renewable energy providers smaller than 30 MW from counting toward the state's targets. The proponents said this was never their intention. However, the legal ambiguity of the measure certainly mobilized the small-scale solar installation industry into strong opposition mode.

In addition, the initiative modified the pricing schemes currently in the law for "benchmarking" renewable energy prices against those of other energy sources such as natural gas. When the state's largest private utilities weighed in with a resounding "No" as well, there was suddenly over \$25 million of opposition

money from the likes of Pacific Gas & Electric and Southern California Edison. As Southern California Edison stated it, Prop. 7 "would upend the existing regulatory process, disrupt existing renewables development, significantly raise rates and threaten reliability."

A separate and independent coalition of all of the major California environmental groups who have become experts on climate change and renewable energy policy over the last 30 years also opposed Prop. 7. Amongst others, the Sierra Club, Natural Resources Defense Council, California League of Conservation Voters and the Union of Concerned Scientists opposed the measure. NRDC labeled Prop. 7 as a "misguided proposition masquerading as renewable energy plans."

One last note: The only county to garner voter support for Prop. 7 was Imperial County. Do they know something we don't about development of solar power?

It would seem that [Proposition 10](#) — "The California Renewable Energy and Clean Alternative Fuel Act" — repeated the same story and dynamic all over again. However, this time the plot is over "alternative" vehicle fuel choices and the motives of another out of state billionaire named T. Boone Pickens who personally prefers natural gas as his fuel of choice for the transportation sector.

According to the "[Yes on 10](#)" campaign, their measure would "reduce dependence on foreign oil, fight global warming and clean our air" by creating a \$5 billion general obligation bond fund to mainly provide rebates to Californians for the purchase or lease of "clean alternative fuel vehicles," invest in renewable energy research and for research, development and production of renewable energy technology.

Through his company, Clean Energy Fuels Corporation (the self-proclaimed "largest supplier of natural gas for transportation in North America"), Mr. Pickens contributed nearly \$19 million into the Prop. 10 campaign coffers. Mr. Pickens support for Prop. 10 is not particularly a surprise given his national energy policy platform and the release of "[The Pickens Plan](#)" to promote massive wind power development and a shift to natural gas as the fuel of choice for cars and trucks.

Clearly, there are a lot of organizations who have a different vision. As the [No on Proposition 10](#) Web site states, "When it comes to support, Prop. 10 will be remembered as one of the most universally opposed ballot measures in California history. EVERY major environmental group — including the California League of Conservation Voters, the Sierra Club, the Natural Resources Defense Council, the Union of Concerned Scientists, and Environment California — has urged a No vote on Prop. 10."

Nearly 40 daily newspapers editorialized against Prop. 10, and then the Schwarzenegger administration weighed in. California Air Resources Board Chair Mary Nichols stated in a letter:

"Under Proposition 10, natural gas cars and trucks would be exempt from air pollution and greenhouse gas reduction requirements, placing them first in line for billions of dollars in taxpayer-financed rebates. Because U.S. natural gas reserves are declining and natural gas will soon be imported from Asia in liquid form, Proposition 10 is likely to result in higher carbon and smog-forming emissions than other domestic fuel strategies now being developed by researchers and industry engineers, such as cellulosic ethanol, hydrogen fuel cells and renewable electricity..."

In the end, the demise of Prop. 7 and Prop. 10 can be interpreted as a classic "they threw up their hands" vote by an electorate who were confused by the lineup cards (i.e., "Why is the Sierra Club opposing measures to increase clean fuels and renewable energy mandates?") Or, Californians may have actually made a conscious choice to let the Legislature and the Schwarzenegger administration continue to take a thoughtful and very public approach to combating climate change, developing clean fuel technologies and increasing reliable and sustainable renewable energy procurement plans through the legislative and regulatory process.

## **Company News**

### **Ormat: Third Quarter Results Reflects 25.5% Growth**

Press Release Highlights—November 5, [Ormat Technologies, Inc. Reports Third Quarter 2008 Results](#)

Ormat Technologies, Inc. (NYSE: ORA) today announced financial results for the third quarter of 2008.

For the three month period ended September 30, 2008, total revenues were \$99.7 million, an increase of 25.5% from \$79.5 million in the third quarter of 2007, consisting of a 12.1% increase in revenues from the Electricity Segment and a 71.0% increase in the Products Segment.

For the quarter, the Company reported net income of \$15.9 million, or \$0.35 per share of common stock (basic and diluted), as compared to net income of \$15.8 million, or \$0.41 per share of common stock (basic and diluted), for the same period a year ago. There were 45.5 million weighted average shares used in the computation of diluted earnings per share in the third quarter of 2008 and 38.3 million weighted average shares for the same quarter in 2007. Despite the significant increase in revenues, net income remained at a level similar to last year's primarily due to two factors: the weakening of the U.S. dollar impacting activity outside the U.S. and non-recurring consulting and legal expenses related to an acquisition which did not materialize.

Commenting on the quarter's results, Dita Bronicki, Chief Executive Officer of Ormat, stated: "The increase in total revenue of 25.5% for the quarter reflects the continued growth of our company. Revenue from the Products Segment in the third quarter increased 71% in line with our expectation for the year. We also continued to increase our energy generation and moved closer to commercial operation of Phase II of the Olkaria III and North Brawley power plants. We expect to end the year with approximately 500 MW in our operating portfolio, an increase of approximately 100 MW for the year. For 2009 we expect an additional increase of approximately 70 MW, for which we have committed financing in place."

"The predictable cash flow from our fully contracted capacity, together with existing committed credit lines, allows us to continue executing on our growth plans despite the turbulent times within the global economic system."

Electricity revenues for the third quarter of 2008 were \$68.8 million, an increase of 12.1% as compared to \$61.4 million in the third quarter of 2007. The increase in electricity revenues is primarily attributable to a net increase in domestic generating capacity to 508,141 MWh for the quarter, up from 501,389 MWh in the same period of 2007. The increase in revenues is a result of new plants placed into service, but was partially offset by a generator failure in the Ormesa complex, the expected expiration of an "adder" paid under the Heber 2 power purchase agreement, and the shutdown of Steamboat 2/3 due to the replacement of its turbines with new turbines manufactured by us. Increased energy rates at the Puna project due to higher oil prices and increased generation in the Amatitlan and Momotombo projects also helped boost electricity revenues.

Commenting on the outlook for 2008, Ms. Bronicki said, "With regard to our Electricity Segment, following our third quarter earnings results, we maintain our guidance for 2008 and expect electricity segment revenues for 2008 to be approximately \$250 million. We also expect additional revenues of approximately \$9 million from our share of electricity revenues generated by the Mammoth plant, the investment in which is accounted for under the equity method. Given our Products Segment results for the third quarter, we now anticipate revenues in this segment of between \$75 and \$80 million for the year being at the high end of previous guidance."

See <http://www.ormat.com/relation.php?did=84>.

## **Raser: Advanced Technology Plant Opens in Utah, Senator Hatch Attends**

On November 6, Raser Technologies held a ribbon-cutting ceremony for the opening of Thermo, its first geothermal power plant, in Beaver County, Utah, according to marketwatch.com. Senator Orrin Hatch and other state representatives were in attendance. The plant will supply power to the city of Anaheim, California.



The construction of the plant (see photo, taken September 2008) is significant in that it took only 6 months to construct, whereas development and construction of geothermal plants can normally take 5 to 7 years. Raser used 50 binary cycle units, technology manufactured by UTC Power, and linked them together like a computer network to create the 10-MW facility, the article said. Raser is planning seven additional plants in the western U.S. with another underway in Indonesia.

"This is a momentous occasion," CEO Brent M. Cook of Raser stated at the ceremony. "This power generation plant

with its ground-breaking, rapid-deployment design and construction system and UTC Power's low-temperature technology can make geothermal a mainstream source of energy for the nation."

Hatch said, "In May of this year, I stood at this very spot and broke ground for a new kind of geothermal power plant. Today, just six months later, I stand here again and look around in amazement to see a complete power plant. Raser's new modular power plant design has begun a revolution in the power industry. If Raser can continue to replicate this successful model, it will unlock this country's most abundant and practical sources of renewable energy."

See <http://www.marketwatch.com/news/story/Raser-Technologies-Inaugurates-Utah-Geothermal/story.aspx?guid={65D76AB1-06B7-4D35-B33A-983CCF6B9659}>.

## **Western GeoPower: Geysers Plant Reaches 50% Required Resource**

Press Release Highlights— October 22, Western GeoPower Drills 50% of Steam Resource With 3 Wells

Western GeoPower Corp., a renewable energy development company, today announced that 50% of the steam resource required to supply the planned 35 MWe Western GeoPower Unit 1 plant at The Geysers Geothermal Field in California, has been successfully placed behind pipe with the drilling and completion of the third well, WGP-3. The three wells have established a power capacity of 19.7 MW (gross) or 17.8 MW (net). Well WGP-3 is located approximately one mile northwest of the WGP-1 well.

Flow testing carried out by independent consultants GeothermEx, Inc. on completion of well WGP-3 has demonstrated an initial steam production rate of 114,000 pounds per hour at a flowing wellhead pressure of 80 psia. Given the plant requirement of 16,130 pounds per hour per MW (gross) or 17,740 pounds per hour MW (net) at a flowing wellhead pressure of 80 psia, this well is estimated to have a power capacity of 7.1 MW (gross) or 6.4 MW (net).

"The results of drilling to date have been very satisfactory, with well WGP-1 being the most productive well drilled at the Geysers over the past two decades and well WGP-3 being one of the most productive,"

said Dr. Subir Sanyal, President of GeothermEx. "The average well capacity of the three wells is far above the average capacity at The Geysers field today."

See <http://www.geopower.ca/newsp1.htm>.

## **Renewable and Climate Change News**

### **Analysts Deliberate What Order Obama Will Push Energy Priorities**

From Sustainable Energy Coalition/SUN DAY Campaign, [Obama May Put Renewable-Energy Plan Ahead of Climate Package](#)

With unemployment at a five-year high, an early effort to create jobs by encouraging electricity production from solar and wind will get top priority, energy lobbyists and analysts said. A more far-reaching effort on a climate-change bill may be delayed until late next year or 2010. Obama's advisers won't say which initiative he will push first. He has proposed a \$175 billion economic-stimulus package and plans to revamp the energy economy as part of a separate climate bill. Obama calls the green-jobs and climate plan a "mid- to long-term solution" on his campaign Web site. Senator Jeff Bingaman said in an interview he didn't know the order in which Obama would pursue his energy priorities. He said he would develop bipartisan energy legislation early next year and has advocated for longer tax credits for renewable energy and mandates for renewable electricity production, as Obama has.

See <http://www.worldofrenewables.com/index.php?do=viewarticle&artid=2603&title=obama-may-put-renewable-energy-plan-ahead-of-climate-package>.

### **LA Times Article Plugs Geothermal**

An article in the *LA Times* discusses geothermal energy in terms of global investment, increasing development, and the industry's challenges and benefits.

The article quoted Mark Taylor of New Energy Finance, saying global investment in geothermal was around \$3 billion last year. "Although that's a blip compared with the estimated \$116 billion funneled into wind and solar, it's still a 183% increase over investment in 2006. In a difficult year for alternative energy funding, the industry snagged \$600 million through the first six months of 2008," the article said, quoting Taylor.

Geothermal energy costs about 4 to 7 cents a kilowatt-hour, making it competitive with wind power and significantly cheaper than solar, the article said, again quoting Taylor. Geothermal facilities take up less room, and the energy is more reliable. "Plants crank electricity around the clock, irrespective of whether the sun is shining or the wind is blowing," the article stated.

The article also mentioned recent investments and government measures in the industry.

See <http://www.latimes.com/news/science/la-fi-geothermal3-2008nov03,0,7002141.story?track=rss>.

## **State News**

### **California: Bottle Rock Plant Commits to Solve Neighbor Concerns**

Residents of the area near the Cobb Bottle Rock geothermal power plant expressed their concerns about noise, speeding trucks, and environmental issues last week, according to lakeconews.com. The meeting was organized by Rob Brown, a supervisor from the plant.

Representatives from the power plant committed to finding solutions, such as disposing of materials in sump ponds, protecting the area from erosion, conduct creek restoration in the spring, and crack down on employees who speed in the area. Residents said the meeting was productive and they had gotten the point across, the article said.

See <http://lakeconews.com/content/view/6201/764/>.

## **Oregon: Industry Representatives Answer Questions on Newberry Project**

Last week, environmental advocates got a chance to direct questions regarding the Newberry geothermal project to the geothermal industry and land management agencies at a meeting of the Oregon Department of Energy's geothermal working group, according to bendbulletin.com. Some of these questions are summarized below:

Q. Where will Davenport Power get water if it needs to inject water to generate steam?

A. It is too early to tell what will be needed.

Q. Will other potential hot spots in Central Oregon be explored?

A. The U.S. Forest Service would have to do studies to see if geothermal exploration is appropriate for new sites before leases are issued.

Q. How will drillers avoid contaminating the groundwater in shallow aquifers with the water in deeper pockets or fissures?

A. The drilling process includes sealing up and cementing off the edges of the drill hole to prevent contamination.

The meeting also included updates on geothermal energy projects in Oregon. At Newberry, Davenport Power has completed and tested one well and has drilled 11,000 feet of a second one. At Neal Hot Springs, exploratory wells were drilled in 2008 and plans for a 26-MW plant are moving forward. Crump Geyser is being checked for geothermal potential. At Klamath Falls, geothermal water provides heat for hospitals, schools, a brew pub, and convalescence homes. And at the Oregon Institute of Technology, the campus is expanding its geothermal projects by putting in two power plants.

See

[http://www.bendbulletin.com/apps/pbcs.dll/article?AID=/20081101/NEWS0107/811010341/1001/NEWS01&nav\\_category=](http://www.bendbulletin.com/apps/pbcs.dll/article?AID=/20081101/NEWS0107/811010341/1001/NEWS01&nav_category=).

## **International News**

### **Australia: Greearth Energy Explores Potential Geothermal Goldmine**

Greearth Energy is exploring the Bellarine Peninsula in Victoria for geothermal resources, according to geelongadvertiser.com.au. The company is excited about the prospect of developing in an area so close to electricity users, and states that it competes with South Australia's Cooper Basin in terms of development potential capacity, according to the article.

See [http://www.geelongadvertiser.com.au/article/2008/11/07/29245\\_business.html](http://www.geelongadvertiser.com.au/article/2008/11/07/29245_business.html).

### **Costa Rica: Geologists Association Honors Geothermal Industry Pioneer**

Dr. Alfredo Mainieri, a pioneer in the geothermal industry in Costa Rica, has been honored by the Costa Rican Geologists Association, according to journalcr.com. At a meeting of the board of directors, the

group's president, Enid Gamboa, presented Mainieri with a plaque recognizing him as "Emeritus Member" of the association, of which he is a founding and active member since 1973. Mainieri now leads the government agency's Geothermal Resources Division, is an international consultant, and is a specialist on Italy.

In 1974, the Costa Rican Electricity Institute (ICE) charged Mainieri with finding potential places in the country for geothermal development. This led to the Miravalles Geothermal Field in Guayabo de Bagaces, Guanacaste, which produce nearly 14% of the National Electrical System's (SEN) capacity from its five plants.

See [http://journalcr.com/news\\_article.php?article=2442](http://journalcr.com/news_article.php?article=2442).

### **Germany: Permits Granted for Two Geothermal Projects**

RWE Innogy has obtained permits for two deep geothermal projects at Wildpoldsried and Unterthingau in the Swabian rural district of Oberallgau, Germany, according to redorbit.com. Exploratory work will be performed and added to existing seismic studies.

See

[http://www.redorbit.com/news/business/1596337/rwe\\_innogy\\_obtains\\_permit\\_for\\_two\\_geothermal\\_projects\\_in\\_germany/](http://www.redorbit.com/news/business/1596337/rwe_innogy_obtains_permit_for_two_geothermal_projects_in_germany/).

### **Indonesia: Energy Firm May Delay Projects Worth \$2bn**

Indonesian energy firm PT Medco Energy International may delay energy projects worth about \$2 billion because of the global financial crisis, according to *Reuters*. This includes a geothermal project in North Sumatra. The group could have trouble getting the necessary financing and is now reviewing their projects. The outlook for exports is uncertain, as the government wants to divert a greater share to the domestic market.

See <http://www.reuters.com/article/marketsNews/idUSJAK30466720081104>.

### **Indonesia: Council OKs Ngebel Geothermal Development**

The provincial legislative council in East Java endorsed a plan to use a deposit of geothermal energy in Ngebel to help the power crisis in Java and Bali, according to the *Jakarta Post*. Exploratory measures will ensure that development would have a positive impact on the local financial situation and would meet safety and ecological guidelines, in accordance with conditions from the legislative council.

"The energy exploration must comply with the bylaw which requires preliminary surveys and feasibility studies be conducted, and also that exploration permits are obtained and activities remain transparent," spokesman for the joint faction Daisy Margaret said at the plenary session, according to the article. Spokesman for the United Development Party (PPP) faction Mundjidah Wahab said the geothermal exploration should primarily address power shortages in Java and Bali. Sudono Syueb, spokesman for the National Mandate Party (PAN) faction, said the project should be given top priority, so that power shortages can cease causing losses to investors and consumers in the provinces.

See <http://www.thejakartapost.com/news/2008/11/05/ngebel-geothermal-development-gets-green-light-council.html>.

### **Ireland: Geothermal Tests at Newcastle Exceed Expectations**

Early results of testing at Newcastle in southwest Dublin showed a geothermal system in the area could benefit 10,000 homes, according to irishtimes.com. Geothermal could provide 15% of Dublin's hot water

and heating within five to seven years, the article said. Geothermal contractor Pádraig Hanley told press the Newcastle tests were exceeding expectations.

Hanley called on the government "to expedite the legislation that is urgently needed to enable us to proceed to the next stage and the development of a geothermal plant. The sooner the legislation is in place, the sooner we can begin to roll out this cheaper, constant renewable source of energy to consumers." Minister for Energy Eamon Ryan said geothermal energy "offers huge potential for Ireland to minimize our massive fossil fuel bill, where we unnecessarily send money abroad for energy we should be developing at home".

See <http://www.irishtimes.com/newspaper/ireland/2008/1106/1225893546964.html>.

## **Kenya: African Geothermal Experts Meet for Discussion and Training**

Experts from African countries gathered in Kenya last week to discuss geothermal resources abundantly available around the continent, according to yourrenewablenews.com. The meeting was hosted by the Kenyan Electricity Generating Company (KEN-GEN) and the United Nations University Geothermal Training Programme. Experts were available to train African engineers on geothermal exploration.

Albert Mugo, the Business Development and Strategy Director of KEN-GEN, said exploration of geothermal was crucial for the East African region to gain energy independence. Experts believe Kenya has enough geothermal resources to produce an equivalent of 7,000 MW of power, and their electricity demand is growing at the rate of 8% a year.

See

[http://www.yourrenewablenews.com/african+experts+seek+measures+to+bolster+geothermal+exploration\\_14687.html](http://www.yourrenewablenews.com/african+experts+seek+measures+to+bolster+geothermal+exploration_14687.html).

## **Mexico: Cerritos Colorados Project Awaits Final Approval**

Mexico's state power company CFE is waiting for approval from the environment and natural resources ministry on its 25-MW Cerritos Colorados geothermal project, according to bnamericas.com. "The only thing left is the signature of the general director," CFE Primavera geothermal department head Felipe Rodrigo told press.

The EIA was approved on November 3. The project will involve construction of a subtransmission line, pipelines, nine production wells, five injector wells, and will rehabilitate four existing wells. The project could be expanded to 50 MW.

See

[http://www.bnamericas.com/news/electricpower/CFE\\_could\\_get\\_green\\_light\\_for\\_Cerritos\\_Colorados\\_this\\_week](http://www.bnamericas.com/news/electricpower/CFE_could_get_green_light_for_Cerritos_Colorados_this_week).

## **Nevis: Study Shows No Correlation Between WIP Project and Earthquake**

The University of the West Indies (UWI) Seismic Research Unit (SRU) scientific findings showed no known correlation between a series of recent earthquakes on Nevis and the geothermal project contracted to West Indies Power (WIP), according to *Caribbean Net News*. CEO of WIP Kerry McDonald stated that "The drilling WIP has been doing on the west side of the Island had nothing to do with the earthquake that occurred ... there was no correlation between the two activities." McDonald further explained, "this earthquake was 11 miles off of the eastern side of the island close to the tectonic plate," the same location as a 1952 earthquake. The earthquake was at 22 miles depth, and the deepest well that WIP has drilled is 3,720 feet.

See <http://www.caribbeanetnews.com/news-11991--35-35--.html>.

## **Philippines: Indigenous Residents Back Geothermal Expansion Project**

The indigenous peoples in North Cotabato support a geothermal expansion project by the thousands, according to [sunstar.com.ph](http://www.sunstar.com.ph). Indigenous people from Kidapawan City and the municipalities of Makilala, Magpet and Arakan favored the continuation of PNOC-EDC's expansion project as they gathered at the provincial capitol.

"The suspension of the re-injection well project has affected the geothermal production capacity of PNOC-EDC, which in turn will have a negative impact on the royalty share given to indigenous people's communities within a 10-kilometer radius around the geothermal site at Mt. Apo," Datu Samuel M. Asicam Sr., Cotabato Tribal Consultative Council chair, said in a statement. Asicam urged the provincial government to allow continuation of drilling operations outside the geothermal reservation block.

*See*

<http://www.sunstar.com.ph/static/gen/2008/11/07/news/lumads.back.geothermal.expansion.project.in.n.cotabato.html>.

## **Notices and Employment Opportunities**

### **Environmental Hall of Fame to Honor GEA**

Next month, the Environmental Hall of Fame will honor the Geothermal Energy Association. Karl Gawell, GEA's executive director, will appear in Chicago to accept the award. See details under **Upcoming Events**, this issue.

### **DOE Announces Open Geothermal Technologies Funding Opportunity**

From DOE's Web site:

GTP has issued a Funding Opportunity Announcement (FOA) for up to \$5 million over five years. This work will create and maintain a web-based National Geothermal Database that will help to overcome barriers to the development of conventional and Enhanced Geothermal Systems.

Initial estimated total funding for this award is listed at \$1,300,000 in FY2009; with additional anticipated funds of \$3,700,000 in years FY2010 through FY2013, subject to the availability of Congressional appropriations. DOE anticipates making one award under this announcement.

Geothermal energy has the potential to emerge as a capable alternative to conventional energy resources due to its renewable baseload capabilities, little to no carbon emissions, and affordability relative to other alternative energy technologies. In early 2008, GTP initiated the Geothermal Risk Mitigation Strategies Report ([PDF 778 KB](#)) to analyze the risks involved with geothermal energy development.

The report proposed strategies to overcome barriers to development and to enable additional investment in conventional and enhanced geothermal systems. As a result of this study, GTP is initiating an effort to create the National Geothermal Database to serve as a central repository for all publically accessible geothermal data.

Creating, maintaining, and operation this database is the subject of this FOA, titled National Geothermal Database and you can find further on and requirements for responding to this Geothermal FOA DE-PS36-08GO98020 as part of the DOE [Industry Interactive Procurement System](#).

You can also access and download the complete Announcement DE-PS36-08GO98020 ([PDF 102 KB](#)).

## **U.S. EPA Calls for Climate Choice Nominations (December 1)**

The Climate Protection Partnerships Division of the U.S. Environmental Protection Agency (EPA) invites technology nominations for the Climate Choice recognition. Climate Choice is a voluntary partnership program that recognizes emerging and advanced technologies with the potential to significantly reduce greenhouse gas emissions.

To be considered for Climate Choice recognition, technologies must meet the following criteria:

- Commercially available, but not widely adopted
- Offered by more than one company
- Demonstrated environmental performance
- Likely to significantly reduce greenhouse gases at competitive costs
- Does not unduly increase other forms of pollution in order to reduce greenhouse gas emissions
- The technology is adequately financed and suppliers have an established business record

For further information, visit: [www.epa.gov/cppd/climatechoice](http://www.epa.gov/cppd/climatechoice) or contact Kristen Taddonio: 1 (202) 343-9234, [Taddonio.Kristen@epa.gov](mailto:Taddonio.Kristen@epa.gov)

## **Employment: Research Associate II, SMU Geothermal Laboratory**

Position: The SMU Geothermal Laboratory, Dallas, Texas, has an opening for a Research Associate II for an appointment of 2 years. The research is supported in part by a grant from GOOGLE.org to SMU. The activities associated with the position relate to the temperature field of the U.S. lithosphere. The outcome is the ability to make sound resource related renewable energy decisions. This research will build on the extensive thermal data sets used to produce the 2004 Geothermal Map of North America by collecting new data and modeling the regional thermal structure.

Qualifications: A PhD in geosciences is strongly preferred or an MS in geophysics and 3 years of work experience. Candidates must demonstrate strong analytical/critical thinking skills to identify issues and information requirements, apply appropriate research and analytical procedures, and review data with a strong focus on attention to detail and accuracy.

Apply online at <http://smu.edu/hr/recruit/> search for “geothermal”  
Contact: Dr. David Blackwell, [blackwel@smu.edu](mailto:blackwel@smu.edu), 214-768-2745

## **Employment: Geothermal Engineering Analyst, National Renewable Energy Laboratory**

Geothermal Engineering Analyst—Requisition #114BR or 115BR—Washington, D.C.

Job/Research Summary: This position performs technology, market and economic analysis, with an emphasis on geothermal energy technology, systems, and infrastructure. Work carried out will support R&D and decision-maker support activities within the Geothermal program through the use of analysis methodologies such as economic feasibility, market transformation, risk, portfolio balance, and cost-versus-benefit. Design novel approaches for systems and infrastructure analysis. Deliver quality products that synthesize the inputs of team members, researchers, market players, and other analysts. Innovate new methods, tools, and approaches that enable greater understanding of geothermal systems.

Job Duties: Combines broad, in-depth knowledge of chemical and/or mechanical engineering with an emphasis on process, heat transfer, and fluids engineering with strong economic analysis capabilities. Performs engineering/economic analyses of geothermal systems and electric transmission in cooperation with research community to gather and understand field data. Documents work in detailed technical memos and internal milestone reports; publishes and presents key results in peer-reviewed journals and at regional, national, and international scientific meetings and conferences. Supports the development of annual

operating plans and assists with strategic planning efforts. Works with Department of Energy on technology goals and opportunities.

Minimum Qualifications: Bachelor's Degree in science and/or engineering, or equivalent/relevant education/experience. 3 years of relevant R&D experience.

Preferred Qualifications: Multidisciplinary research exposure to both chemical and mechanical engineering systems, especially those related to the development of cost-effective geothermal systems for utility-scale applications. Familiarity with value chain analysis, risk analysis, and dynamic modeling. Experience in the development and evaluation of applied technology aimed at entering the marketplace. Previous industry experience in renewable energy and geothermal technologies, with experience in related analysis. Established base of contacts with individuals and institutions relevant to energy analysis. Experience working with the federal government. Some experience with computer modeling of energy markets.

Pre-employment drug testing required.

Please visit our website for more information and to apply online: [www.nrel.gov/employment/](http://www.nrel.gov/employment/)  
NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

### **Employment: Sales Manager, Ormat Technologies**

Ormat Technologies has an immediate opening for a full time Sales Manager located in our Reno, NV. The ideal candidate will 10+ years in related Sales experience in the energy/renewables industry.

Position Title: Manager of Sales, Geothermal Development; Department: Business Development; Location: Corporate Office Reno, NV; Reports to: Director, Geothermal Development; Position Summary: The Manager of Sales, Geothermal Business Development, will be responsible for the sales and marketing of renewable energy products. The selected candidate will help lead the commercialization and sales efforts for Ormat's latest geothermal supply of geothermal plant equipment, electrical power generation projects, as well as the supply of engineering and construction services for 3rd Party power projects.

Essential Functions: Develop detailed sales and marketing strategies to grow sales within the power generation industry; Conduct market segmentation research, identify lead databases and determine sales channels to establish customer opportunities and spearhead direct sales efforts; Manage customer relationship from initial feasibility trials through to field deployment.

Other Responsibilities: Work flexibly within a dynamic, multidisciplinary team.

Education, Experience and Skills Required: Minimum of 10 years experience in a similar position; Bachelor's degree in Marketing or related field or equivalent experience and/or technical qualifications relevant to the geothermal applications, as well as Engineering and Construction; Experience in marketing or application engineering; Experience working directly with customers in a sales organization with strong communication and interpersonal skills.

Physical Requirements: Must be able to travel regularly

To apply for the position please send a resume to [Chris@redfishtech.com](mailto:Chris@redfishtech.com).

### **Employment: Engineer V, Geothermal Experience Preferred, Northern California Power Agency**

Performs engineering tasks relating to plant reliability/ performance efficiency, primary technical resource for CMMS, supervises implementation of system/equipment repairs/upgrades, PM for plant efficiency upgrade/retrofit projects, construction mgr for public works projects, supervises plant chemical lab & environ, health/safety staff. First 4–6 months, position assigned to NCPA HQ office/Roseville, then GEO Plant, Middletown, CA thereafter. During initial period in Roseville, temp housing provided if required.

Requires BA in electrical/mechanical engineering; MA preferred; and min 10 yrs exp plant/production engineering, preferably within geothermal industry; 2 yrs experience plant reliability/ maintenance engineering & 2 yrs mgmt. exp preferred. Requires knowledge/experience in industry codes/standards; CMMS, Root Cause Failure Analysis, Reliability Centered Condition Based/Mntc, CBM equip; steam turbine plant monitoring & power plant electrical sys; writing, analyzing/interpreting scientific/tech info.; making presentations and some travel in CA. Starting salary: \$96 to \$121K plus exc employer benefits inc CalPERs retirement/medical.

Application at [www.ncpa.com](http://www.ncpa.com), submit to NCPA HR, 651 Commerce Dr., Roseville, CA 95678. Open until filled.

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

#### **RFP for Small Business Innovation Research and Small Business Technology Transfer, DOE (November 20)**

The U.S. Department of Energy requests proposals for Phase I of the Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs. SBIR/STTR seeks to increase private sector commercialization of technology developed through DOE supported R&D, stimulate technological innovation in the private sector, and improve the return on investment from Federally-funded research for economic and social benefits to the nation. Areas of interest include, but are not limited to: Advanced battery electrode development, advanced materials and technologies for cooling and waste heat recovery, energy efficient membranes, technologies related to energy storage for hybrid and plug-in hybrid electric vehicles, energy savings technologies for commodity manufacturing industries, production of biofuels from biomass, advanced water power technology development, wind energy technology development, geothermal technologies, hydrogen, fuel cells, and infrastructure technologies, solar energy, improved motor designs and power electronics, advancements for hybrid and plug-in hybrid electric vehicles, and climate control technology for fossil energy applications. The complete list of topics is posted at: [http://www.science.doe.gov/sbir/solicitations/FY%202009/C27\\_topics.pdf](http://www.science.doe.gov/sbir/solicitations/FY%202009/C27_topics.pdf). \$36 million expected to be available, up to 360 awards anticipated.

Responses due 11/20/08. For more info, contact Carl Hebron at [sbir-sttr@science.doe.gov](mailto:sbir-sttr@science.doe.gov) or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/9648EC9FBF2AAE36852574C70063CD09?OpenDocument>. Refer to Sol# DE-PS02-08ER08-34. (Grants.gov 9/17/08)

#### **RFP for Environmental Info Exchange, U.S. EPA (November 21)**

The U.S. Environmental Protection Agency requests proposals for the Exchange Network Grant Program. The Network is an Internet and standards-based, secure information network that facilitates the electronic sharing, integration, analysis, reporting, and use of environmental data from many different sources. This program provides support to organizations to develop the information technology and information management capabilities needed to actively participate in the Exchange Network. \$11 million expected to be available, up to 50 awards anticipated.

Responses due 11/21/08. For more info, contact Edward Mixon at [mixon.edward@epa.gov](mailto:mixon.edward@epa.gov) or go to: <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=42875>. Refer to Sol# EPA-OEI-09-01. (Grants.gov 9/17/08)

## **RFO for Carbon Offsets, Sacramento Municipal Utility District (mid-December)**

From News Release—October 17, [SMUD Releases Request for Offers for Carbon Offsets](#)

The Sacramento Municipal Utility District (SMUD) released a Request for Offers (RFO) for 45,000 tonnes of carbon offsets to be delivered annually beginning in 2010. Proposals will be due mid- December 2008. The carbon offsets will be used to meet customer demand for SMUD's voluntary carbon offset program.

Projects which meet the rigorous standards of the California Climate Action Registry (CCAR) offset protocols will be given first preference. Local projects will be given preference in the project scoring as compared to projects which are located outside the Sacramento region. Projects constructed outside the state of California will not be evaluated in this RFO.

The October 2008 RFO is soliciting offers for carbon offset projects preferably developed according to one of the CCAR-approved protocols which include: dairy manure digesters, landfill gas, forestry and urban forestry, and protocols under development: natural habitat restoration, truck stop electrification, food and woodwaste diversions from landfills, energy efficiency retrofits, new cogeneration, bus fleet upgrades, bus rapid transit lanes and related mode shifting, and N<sub>2</sub>O reduction in acid plants.

SMUD will host a Bidders Conference and Carbon Offset Project Development Workshop at SMUD on November 3, 2008 from 9 a.m. to 2 p.m. The Bidders Conference will cover information and questions on submitting proposals to this RFO. The Carbon Offset Project Development Workshop will follow the Bidders Conference at 10 a.m., and will cover the fundamentals of carbon offset project development including accounting protocols, verification and offset registries.

Interested parties can download the RFO documents from SMUD's Electronic Bid Solicitation System (EBSS) Web site at [www.bids.smud.org](http://www.bids.smud.org). Registration to the EBSS site is required to access the documents. Registered individuals will also receive updated information regarding this RFO and will also receive notification of future solicitations for purchase of renewable energy resources. For additional information contact: Obadiah Bartholomy, 916-732-6835, [obartho@smud.org](mailto:obartho@smud.org).

See the entire SMUD news release at [http://www.smud.org/en/news/Documents/08archive/10-17-08\\_carbon\\_offsets\\_RFO.pdf](http://www.smud.org/en/news/Documents/08archive/10-17-08_carbon_offsets_RFO.pdf).

## **Request for Renewable Energy, Massachusetts (December 1)**

Taunton Municipal Lighting Plant seeks up to 260,000MWh per year of energy and dependable capacity starting in the calendar year 2009 from eligible renewable resources to meet the Massachusetts RPS requirements. Responses due 12/1/08.

For more info, contact Scott Whittemore at [Renewables@TMLP.com](mailto:Renewables@TMLP.com) or go to <http://personal.tmlp.com/tmlpesp/RFP08-01-renewable-resource/>. (Green Power Network 7/28/08)

## **RFP for Climate Change and Sustainability Conferences, EPA (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 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 Environmental Fellowships for Undergraduate, U.S. EPA (December 11)**

The U.S. Environmental Protection Agency requests proposals for Greater Research Opportunities. GRO provides undergraduate fellowships in environmental fields of study. Areas of interest include, but are not limited to: Green Building Engineering, Environmental Engineering, and Urban and Land Use Planning. \$930K expected to be available, up to 20 awards anticipated.

Responses due 12/11/08. For more info, contact Georgette Boddie at [boddie.georgette@epa.gov](mailto:boddie.georgette@epa.gov) or go to: [http://es.epa.gov/ncer/rfa/2009/2009\\_gro\\_undergrad.html](http://es.epa.gov/ncer/rfa/2009/2009_gro_undergrad.html). Refer to EPA-F2008U-GRO-(P1-Q2). (Grants.gov 9/5/08)

### **RFP for Student Design Competition for Sustainability, U.S. EPA (December 23)**

The U.S. Environmental Protection Agency requests proposals for the 6th Annual P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet. This program supports science-based designs developed by interdisciplinary student teams that benefit people by improving their quality of life, promote prosperity by developing local economies, and protect the planet by conserving resources and minimizing pollution. P3 seeks to respond to the technical needs of the world while moving towards the goal of sustainability. Areas of interest include: Agriculture, Materials and Chemicals, Energy, Information Technology, Water, and the Built Environment. \$950K expected to be available, up to 50 awards anticipated.

Responses due 12/23/08. For more info, contact Cynthia Nolt-Helms at [nolt-helms.cynthia@epa.gov](mailto:nolt-helms.cynthia@epa.gov) or go to: [http://es.epa.gov/ncer/rfa/2009/2009\\_p3.html](http://es.epa.gov/ncer/rfa/2009/2009_p3.html). Refer to Sol# EPA-G2009-P3-Q(1-6). (Grants.gov 9/23/08)

### **RFP for Small Business Technology Transfer, National Science Foundation (February 25)**

The National Science Foundation requests proposals for the Small Business Technology Transfer Program (STTR). STTR seeks to stimulate technological innovation in the private sector by strengthening the role of small business concerns in meeting Federal R&D needs, increasing the commercial application of federally supported research results, and fostering and encouraging participation by socially and economically disadvantaged and women-owned small businesses. Areas of interest include: Materials for Sustainability, Bio-inspired Materials and Systems, Smart Materials and Structures, and Nanostructured Materials. \$5 million expected to be available, up to 35 awards anticipated. Letters of Intent are required and are due 1/14/09, final proposals due 2/25/09.

For more info, contact Cheryl Albus at [calbus@nsf.gov](mailto:calbus@nsf.gov) or go to: [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf08608](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf08608). Refer to Sol# 08-608. (Grants.gov 9/22/08)

### **RFP for Energy Efficiency, Renewable Energy, and Transmission Technologies, DOE (February 26)**

This solicitation announcement (DE-PS01-08LG00001) invites the submission of applications for loan guarantees under Title XVII of the Energy Policy Act of 2005, 22 U.S.C. 16511-16514 ("Title XVII"), from the U.S. Department of Energy in support of debt financing for projects in the U.S. that employ energy efficiency, renewable energy, and advanced transmission and distribution technologies that constitute New or Significantly Improved Technologies. Copies of related regulations may be found at <http://www.lgprogram.energy.gov/>.

DOE is actively promoting projects that fall within the following three general but distinct project type categories: (1) manufacturing projects, (2) stand-alone projects, and (3) large-scale integration projects that may combine multiple eligible renewable energy, energy efficiency and transmission technologies in accordance with a staged development scheme.

The applicant is requested to specify which, if any, of the following project types and technology categories most accurately represents its project: (1) Alternative Fuel Vehicles, (2) Biomass, (3) Efficient Electricity Transmission, Distribution and Storage, (4) Energy Efficient Building Technologies and Applications, (5) Geothermal, (6) Hydrogen and Fuel Cell Technologies, (7) Energy Efficiency Projects, (8) Solar, and (9) Wind and Hydropower.

With questions, email the LGPO at [lgprogram@hq.doe.gov](mailto:lgprogram@hq.doe.gov). Please include in the subject line "RETDEE Solicitation Question." Completed applications due February 26, 2009 Full announcement can be found at <http://www.lgprogram.energy.gov/keydocs.html>.

## **Upcoming Events**

### **International Geothermal Conference, November 7 (Nevis Island)**

The Nevis Island Administration will host an International Geothermal Conference at the Four Seasons Resort on November 7, 2008. The theme is "Nevis Taking Leadership in Renewable Energy Development in the OECS" and is designed for anyone with interest in renewable energy systems, including policymakers, regulators, environmental consultants, property developers, and contractors.

Topics: Challenges and Solutions for the Energy Sector and Renewable Energy, The Legal Framework for Renewable and Geothermal Development in The OECS (The Nevis Case), Geothermal Development in Iceland and Geothermal Exploration and Development (The Nevis Model)

To register for the Conference, persons may contact Permanent Secretary, Mr. Ernie Stapleton, via email at [planningministry@yahoo.com](mailto:planningministry@yahoo.com) or by telephone at 869-469-5521 ext 2176.

### **Geothermal Session, Texas Renewables '08 Conference, November 10 (Austin, TX)**

The Texas Renewables '08 Conference, November 9–11, will feature a geothermal session on November 10. Monday, November 10, 3:30–5 pm is the specific Geothermal Session.

Speakers are:

- Paul Thomsen, ORMAT Technologies, on Geothermal Demonstration Project at Rocky Mountain Oilfield Testing Center, Wyoming
- Loy Sneary, Gulf Coast Green Energy, on Making Something From Nothing: The Green Machine Turns Geothermal and Waste Heat Into Power
- Stathis Michaelides, UT San Antonio, Mechanical Engineering, on Geothermal Power Extraction from Abandoned Oil Wells in Texas

Visit <http://www.treia.org>.

### **NZ Geothermal Workshop & NZGA Seminar 2008, November 11–13 (Taupo, New Zealand)**

The NZ Geothermal Workshop will be held November 11–12 and the New Zealand Geothermal Association Seminar 2008 will be held on November 13. Both events will take place at the Great Lake Centre in Taupo, New Zealand. The events mark the 30<sup>th</sup> anniversary of the Geothermal Workshop, which is New Zealand's longest running energy conference. This year's workshop will celebrate New Zealand's

people and past achievements as well as the exciting future of geothermal energy use around the world. Particular focus will be on New Zealand's contributions to the research, education, and development of geothermal energy.

NZ Geothermal is calling for papers related to the history of achievement and the future potential of geothermal energy as well as paper on all aspects on Wairakei. The paper deadline is August 25 and must be submitted via email to [geothermal08@auckland.ac.nz](mailto:geothermal08@auckland.ac.nz).

Workshop registration began June 1 and online registration will continue until November 4. Discounted rates will be available until early registration closes on October 12. For more information or to register, please visit <http://www.nzgeothermal08.com/nzgeothermal/index.cfm>.

### **XVI Annual Congress of the Mexican Geothermal Association, November 14 (Morelia, Mexico)**

The XVI Annual Congress of the Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana) will take place in the city of Morelia, Mexico, on November 14. The AGM is calling for papers related to geothermics. Please send abstracts to Luis Gutiérrez-Negrín ([luis.gutierrez@geotermia.org.mx](mailto:luis.gutierrez@geotermia.org.mx)) before July 25. Ten to twelve papers will be selected for oral presentation during the congress. Papers and presentations can be in Spanish or English.

The AGM is the Mexican association affiliated to the International Geothermal Association (IGA) It holds an annual technical congress and a general assembly, restricted to its membership, usually in a city of Mexico related to geothermics. The events are cosponsored by the geothermal division of the Comisión Federal de Electricidad, whose headquarters is in Morelia.

For more information, please visit the AGM Web site (<http://www.geotermia.org.mx>), and/or send a message to Luis Gutiérrez-Negrín.

### **Geothermal Finance & Investment Summit, November 17–19 (Palm Springs, CA)**

A Geothermal Finance & Investment Summit will be held November 17–19 in Palm Springs, California. Developers, investors, lenders, power purchasers, technology experts, legal teams and others involved in geothermal projects are scheduled to participate. Ed Wall, Program Manager of the Geothermal Technologies Program Office at the Department of Energy will be the keynote speaker. More information is available at <http://www.infocastinc.com/index.php/conference/geothermal>.

### **National Environmental Hall of Fame Inductions, November 20–22 (Chicago, IL)**

GEA will be honored next month by the National Environmental Hall of Fame. From their Web site:

The Environmental Hall of Fame will induct over 36 honorees into the National, Illinois and Chicago Environmental Halls of Fame at Hotel Allegro Chicago on November 20-22 during its second awards ceremony. The Hotel Allegro, (171 W. Randolph) across from City Hall, has been rated the greenest hotel in Chicago.

The award recipients will share their vision of how the U.S. can be transformed into a self-sufficient and prosperous renewable energy economy. The mission of the Environmental Hall of Fame is to help recognize and implement solutions of top Environmentalists in order to help reduce global warming, energy costs, pollution and help increase energy independence. Environmental activists Pierce Brosnan and Keely Shaye Brosnan will be honored at the ceremony.

*For more information and a list of nominees, visit*  
[http://environmentalfame.com/index.php?option=com\\_frontpage&Itemid=1](http://environmentalfame.com/index.php?option=com_frontpage&Itemid=1).

## **New Date — Utah Geothermal Lease Sale, BLM, Rescheduled for December 19**

The Utah State Office has scheduled a proposed competitive geothermal lease sale on December 19, 2008.

Relevant announcements and forms can be found at  
<http://www.blm.gov/ut/st/en/prog/energy/geothermal0.html>.

If you have questions regarding this notice, please call Judy Nordstrom at 801-539-4108; facsimile at 801-539-4200; write to attention at the address on this letterhead; or send electronic mail to [judy\\_nordstrom@blm.gov](mailto:judy_nordstrom@blm.gov).

## **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.

The Scientific Program of the conference consists of Plenary Lectures, Poster presentations, Workshop and Field Trips. The following will be the themes for oral and poster sessions: (1) Exploration: Geology, Geophysics, Geochemistry, and Hydrology, (2) Drilling and well design: Shallow and deep, Production and Injection, (3) Field development, Production Technology, Power generation & Operation, (4) Reservoir Engineering: Well Testing, Injection, and Modeling, (5) Case Histories, (6) Economics and Financing, (7) Environmental, Social, Legal and Institutional Aspects, and (8) Direct Use: Agri- and aquaculture, Mineral extraction, Manufacturing, Air conditioning.

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).

## **34th Stanford Geothermal Workshop, February 9-11, 2009 (Stanford, CA)**

This workshop will bring together Engineers, Scientists and Managers involved in geothermal reservoir studies and developments; provide a forum for the exchange of ideas on the exploration, development and use of geothermal resources; and enable prompt and open reporting of progress.

Papers will be presented on recent research relating to geothermal reservoirs including:

- \* Case Studies: reservoir response to production, effects of injection, scaling characteristics
- \* Enhanced Geothermal Systems (EGS): current and future activities
- \* Engineering Techniques: reservoir simulation, empirical methods, well tests, tracers
- \* Field Management: strategies for exploitation, injection, scale inhibition
- \* Exploration: geophysics, geochemistry, geology, heat flow studies, outflows
- \* Drilling and Well Bore Flows: well stimulation, bore flow modeling, hydro-fracturing, scaling
- \* Low Enthalpy Systems: applications of heat pumps, hot dry rock technology
- \* Geosciences: application of geophysics, geochemistry, thermodynamics and fluid mechanics.

*For more information such as abstract submission, last year's workshop format, and more, visit <http://pangea.stanford.edu/ERE/research/geoth/conference/workshop.html>.*

## **Featured Event: Renewable Energy World Conference and Expo North America 2009, March 10–12, 2009 (Las Vegas, NV)**

North America's Premier Renewable Energy Conference & Expo Is Now in its 6th Year!

The Renewable Energy World Conference & Expo North America (formerly POWER-GEN Renewable Energy & Fuels) has a proven track record—now in its 6th year— as renewable energy's leading conference. It offers a worldwide audience who will hear papers, panel discussions and presentations during technical sessions related to technology, markets, business strategies and policy covering the wind, solar, biomass, hydro, geothermal, ocean/tidal/wave, bio-power, bio-fuels hydrogen and energy sectors. There has never been a better time to be a part of the exciting, ever-growing world of renewable energy!

Connecting 5,000 renewable energy power professionals with 300 exhibitors for three days of networking, new business negotiation, and the exchange of important ideas and information impacting the renewable energy industry today.

REenergize with new technologies, new companies, new strategies and new views!

The Geothermal Energy Association will be cosponsoring this event, with panels on geothermal energy soon to come. For more information and to register, visit <http://rewna09.events.pennnet.com/fl/>.

## **Canadian Geothermal Energy Association Conference and AGM, April 16–17, 2009, (Vancouver, B.C.)**

Canadian Geothermal Energy Association Workshop, Conference and AGM, April 15–17, 2009, (Vancouver, BC)

The Canadian Geothermal Energy Association (CanGEA) announces their Workshop, Tradeshow, Conference and AGM on April 15–17, 2009 in Vancouver, BC.

CanGEA also announces that its 2009 membership drive has begun. CanGEA welcomes all members interested in advancing the development of Canada's vast resources. In addition, members receive premium benefits on one of the world's most popular geothermal websites.

Visit the Web site for information: <http://www.cangea.ca/>.



### ***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)