



## GEOTHERMAL ENERGY ASSOCIATION

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## **National News**

### **Reid Announces Major Energy Transmission Bill**

At a National Clean Energy Project forum at the Newseum on February 23, Nevada Senator Harry Reid announced the introduction of a new bill to facilitate transmission of renewable energy from remote locations to urban centers.

“My legislation will require the President to designate renewable energy zones with significant clean energy generating potential,” Reid said at the event. “Then, a massive planning effort will begin in all the interconnection areas of the country to maximize the use of that renewable potential by building new transmission capacity. If that process falters, then the federal government would be given clear authority to keep it going and get that new transmission built on schedule.”

See [http://reid.senate.gov/newsroom/022309\\_energy.cfm](http://reid.senate.gov/newsroom/022309_energy.cfm); read Reid’s remarks at [http://reid.senate.gov/newsroom/pr\\_022309\\_cleanenergyproject.cfm](http://reid.senate.gov/newsroom/pr_022309_cleanenergyproject.cfm).

### **Senate Energy Committee Announces Hearings Leading to New Energy Bill**

The Senate Energy Committee has scheduled four hearings that "will help inform the bipartisan bill the committee hopes to produce." They are:

- Smart Grid: On Tuesday, March 3, the committee will receive testimony on the process of “smart grid” initiatives and technologies. Witnesses will include Commissioner Suede Kelly, Federal Energy Regulatory Commission; Patrick Gallagher, deputy director, National Institute of Standards and Technology; Frederick Butler, commissioner, National Association of Regulatory, Utility Commissioners, Newark, NJ; Edward Lu, Program Manager, Google Inc., Mountain View, CA; Patricia Hoffman, principal deputy assistant secretary, Office of Electricity Delivery and Energy Reliability, U.S. Department of Energy; Katherine Hamilton, president, GridWise Alliance; and Evan Gaddis,

president and chief executive, National Electrical Manufacturers Association. (Dirksen 106, 10:00 a.m.)

- Energy R&D: On Thursday, March 5, the Committee will receive testimony regarding draft legislation on energy research and development. Witnesses will include Secretary Steven Chu, U.S. Department of Energy; Dr. George Crabtree, Associate Division Director, Argonne National Laboratory; Bob Fri, visiting scholar, Resources for the Future; Dr. James Bartis, Senior Policy Researcher, RAND Corporation; Deborah Wince-Smith, President, Council on Competitiveness; and Dr. Mike Corradini, Director, Wisconsin Institute of Nuclear Systems, University of Wisconsin-Madison. (Hart 216, 9:30 a.m.)
- Water Development and Energy Production: On Tuesday, March 10, the committee will receive testimony on legislation to authorize an in-depth analysis of the impact of energy development and production on the water resources of the U.S. Witnesses TBA. (Dirksen 366, 10:00 a.m.)
- Electricity Transmission: On Thursday, March 12, the committee will examine draft legislation regarding the siting of electricity transmission lines, include increased Federal siting authority and regional transmission planning. Witnesses TBA. (Dirksen 366, 9:30 a.m.; overflow room is Dirksen 406)

### **Changes will Expedite Economic Recovery Funding, Says Secretary Chu**

Energy Secretary Steven Chu announced a reorganization of the Department of Energy's dispersal of direct loans, loan guarantees, and funding contained in the new economic recovery legislation, according to energy.gov. The restructuring will expedite the process of dispersing money to the new energy economy, creating millions of new jobs, reducing dependence on foreign oil, and improving the environment.

The changes include cutting back on paperwork and processing applications on a rolling basis. These and other simplifications to the loan application process will allow the Department of Energy to begin offering loan guarantees under the previous program by late April or early May; loan guarantees under the new legislation will be offered by early summer; and 70% of the investment from the American Recovery and Reinvestment plan is expected to be dispersed by the end of next year.

See <http://www.energy.gov/news2009/6934.htm>.

### **Congressional Leaders Move to Pass Funding Bill Before Friday Deadline**

Funding for most federal agencies was included in a Continuing Resolution passed late last year that expires this Friday. The House and Senate are working to complete a FY 2009 omnibus funding bill before that deadline.

The House has approved its version of H.R. 1105 - Omnibus Appropriations Act, 2009 by a 245–178 vote last week, and the Senate begins consideration of the bill today. That measure includes \$44 million for the DOE Geothermal Research Program, specifically for "research, development and deployment of geothermal and advanced geothermal systems." This funding is in addition to the \$400 million provided in the economic stimulus bill already this year.

## **EPA Set to Move toward CO<sub>2</sub> Regulation**

From *EESI Climate Change News*:

On February 22, Carol Browner, the President's special adviser on climate and energy issues, said the Environmental Protection Agency (EPA) is looking at the April 2007 Supreme Court ruling that required the agency to determine whether CO<sub>2</sub> endangers public health or welfare. Speaking at the sidelines of the National Governors' Association meeting in Washington, DC, Browner said the agency "will make an endangerment finding." Following this, Browner said the next step would be a notice of proposed rulemaking for new regulations on CO<sub>2</sub> emissions. Under the Clean Air Act, once the EPA identifies CO<sub>2</sub> as a pollutant it has to draw up regulations governing these emissions from coal-fired power plants, refineries, chemical plants, cement firms, vehicles and any other emitting sectors. Administration officials said they would limit the regulations to facilities over a certain size, but critics argue that such regulations would be costly and could create legal challenges. "Once carbon dioxide is regulated, they can no longer contain the Clean Air Act . . . and it would completely shut the country down," said William Kovacs, a vice president for the U.S. Chamber of Commerce.

Browner did not indicate when the EPA will act on the endangerment finding, but EPA Administrator Lisa Jackson has said it could be April 2, the second anniversary of the Supreme Court ruling. Despite the EPA moving forward with the rulemaking, Browner said the administration prefers that regulation of greenhouse gas emissions be done through legislation crafted by Congress creating a cap-and-trade program for emissions.

*For additional information see:*

<http://online.wsj.com/article/SB123531391527642021.html>

<http://www.businessgreen.com/business-green/news/2237090/epa-regulate-greenhouse-gases>

## **Join GEA at Next Week's Renewable Energy World Conference and Expo!**

The Geothermal Energy Association introduces several geothermal energy events to be featured at the Renewable Energy World Conference and Expo, March 10–12 at the Rio Hotel in Las Vegas, NV. GEA is exhibiting in the Expo Hall and will also be participating in three panel discussions. Don't miss these programs and presentations:

Keynote Session: March 10, 3:00–5:00pm, Miranda Ballroom  
Karl Gawell, executive director of GEA will be a keynote speaker

Panel Discussion, Enhanced Geothermal Systems: March 11, 9:30–11:30am, Tropical D  
Panelists: Ed Wall, Department of Energy; Peter Drakos, Ormat Technologies; Subir Sanyal, GeothermEx, Inc.; Charles Baron, Google.org; William D'Olier, Independent Geothermal Consultant

Panel Discussion, U.S. Geothermal Market: March 11, 1:30–3:30pm, Tropical D  
Panelists: Karl Gawell, Geothermal Energy Association; Dan Fleischmann, Ormat Technologies; Halley Dickey, Turbine Air Systems; Kermit Witherbee, Bureau of Land Management; Dennis Gilles, Calpine

Panel Discussion, Geothermal Finance and Incentives: March 12, 9:30–11:30am, Tropical D  
Panelists: Bob Banack, Dundee Securities; John Pierce, Wilson Sonsoni; C.J. Arrigo II, Glacier Capital Partnership; Thomas King, U.S. Renewables; Dan Schochet, Ram Power

GEA will be exhibiting in the Expo Hall at booth #1412. Check out copies of our new report, Geothermal 101: Basics of Geothermal Energy Production and Use. We will also feature our brand new U.S. Industry Update (not yet released), the newest and most complete report of current geothermal projects. We'll have prize giveaways, a wide variety of valuable information on geothermal energy, and guides to make sure

you get the most out of your geothermal experience at all the events. Please stop by and visit us and these other GEA members or geothermal supporters:

Other Expo Hall Exhibitors — Geothermal  
Bureau Veritas North America Inc., booth #527  
Calnetix Power Solutions, booth #1207  
CH2M Hill, booth #1115  
Electratherm Inc., booth #1309  
L.A. Turbine, booth #1029  
Mafi-Trench Company, booth #520  
NV Energy, booth #906  
Power Engineers, booth #1121  
Stoel Rives LLP, booth #623  
Sunrise Engineering, Inc., booth #533  
Thermasource, booth #1307  
Tranter Inc., booth #206  
Turbine Air Systems, booth #829  
URS Corporation, booth #332  
US Geothermal Inc., booth #1217  
Vooner Flogard Corp., booth #514  
White Construction, booth #108

## **Company News**

### **NV Energy: Transmission Project will Connect New Geothermal Plants**

NV Energy is in the planning stages for a \$30 million transmission project in Churchill County, according to lahontanvalleynews.com. The project includes a new substation, two switching stations, and more than 19 miles of transmission lines and will allow energy to be transmitted from two geothermal plants under construction by Vulcan Power and Ormat.

The Fallon 230kV Source Project is still in planning stages. “We hope to have all the permits in place by June of 2012,” Clyne Cook, NV Energy senior project manager told press. “Then we would start construction, which we’re estimating at 12 to 18 months, depending on how the geothermal plants roll in.”

*See*

<http://www.lahontanvalleynews.com/apps/pbcs.dll/article?AID=/20090226/NEWS/902269968/1045/rss&template=printart>.

### **Ormat: Fourth Quarter Revenue Beats Estimates**

Press Release Highlights, February 25—[Ormat Technologies Reports Record Fourth Quarter 2008 and Year-End Results](#)

RENO, Nev.—Ormat Technologies, Inc. (NYSE: ORA) today announced results for the fourth quarter and full year ended December 31, 2008.

Highlights of the company performance include:

- Revenues increased 35.2% for the quarter to \$95.5 million and 16.5% for the year to \$344.8 million.
- Net income increased 31.3% to \$11.7 million in the quarter and 82.0% to \$49.8 million for the year.
- Earnings per share increased 18.2 % to \$0.26 in the quarter and 60% to \$1.12 for the year.
- Product backlog reached a record high of \$194.0 million.
- Ormat-owned generating capacity increased by 109 MW, an increase of over 25% during 2008.

Commenting on the results, Dita Bronicki, Chief Executive Officer of Ormat, stated: "It was a good year and quarter for Ormat, as reflected in our financial results. The fundamental business of the Company is in excellent condition and the benefits of the new Stimulus Act will further improve our future results. We substantially grew and improved the profitability of our Electricity and Products Segments, significantly increased the generating capacity in our Electricity Segment and ended the year with a record backlog in the Products Segment.

"In our Electricity Segment, we have substantially completed the construction of several projects that have increased our generating portfolio by 109 MW to 505 MW. This organic growth includes:

- phase II of the Olkaria III project in Kenya, which was completed during the fourth quarter of 2008 and is now in commercial operation;
- the 50 MW North Brawley project, which reached the start up phase and will ramp up gradually with full capacity expected in the second quarter of 2009;
- 18 MW in 2 different geothermal projects; and
- 5.5 MW in the first of four OREG 2 recovered energy generation (REG) projects."

Ms. Bronicki continued: "Looking ahead to 2009, in our Electricity Segment we expect to add approximately 34 MW to our generating portfolio. We had hoped to complete the 30 MW East Brawley project in 2009, but this project has been pushed back to 2010 due to permitting delays.

"In support of future growth we have added 150,000 acres of new leases to our development inventory during 2008, a large acreage for future exploration activity. We have in place the capital resources to fund our CapEx requirement of about \$250 million for our present growth plans in 2009", Ms. Bronicki concluded.

See <http://www.globes.co.il/serveen/globes/DocView.asp?did=1000428860&fid=1725> and <http://www.ormat.com/relation.php?did=84>.

## **Renewable and Climate Change News**

### **Senator Boxer Outlines Principles for Climate Legislation**

From EESI Climate Change News, [Senator Boxer Outlines Principles for Climate Legislation](#)

On February 3, Senate Environment and Public Works Committee Chairman Barbara Boxer (D-CA) released a document outlining principles for the creation of a cap-and-trade system to reduce greenhouse gas emissions "to levels guided by science to avoid dangerous climate change." Boxer's principles for global warming legislation aim for a law that would: 1) set "certain and enforceable" short and long-term emissions targets; 2) ensure state and local entities keep working to address global warming; 3) establish a market-based system that cuts carbon emissions; 4) use revenues from this carbon market to help consumers make the transition to clean energy and invest in new technology and efficiency measures; and 5) ensure a level global playing field with incentives for polluting countries to give their share to the international effort to curb climate change.

Environmental Protection Agency Administrator Lisa Jackson stated that she was pleased by the quick action being taken toward legislation, and that the EPA "will be working closely with the Hill in the weeks and months ahead to address this tremendous challenge and opportunity." The current document does not contain further details. In regard to when it will be completed, Boxer told reporters, "It will take a while, it could be weeks not months, but it will be before the end of this year."

For more information see: <http://uk.reuters.com/article/motoringAutoNews/idUKTRE51267620090203>, [http://www.google.com/hostednews/afp/article/ALeqM5gdz\\_ZMoabf-0k2OdAjdBjfGJNoTA](http://www.google.com/hostednews/afp/article/ALeqM5gdz_ZMoabf-0k2OdAjdBjfGJNoTA), and

<http://www.washingtonpost.com/wp-dyn/content/article/2009/02/03/AR2009020303458.html?hpid=moreheadlines>.

## **Low-Temperature Projects Increasing Geothermal Potential**

An article from Public Utilities Fortnightly called “Squeezing Energy from a Rock: New Geothermal Approaches Bring Massive Resources Within Reach” explains how new developments in geothermal energy are increasing the amount of land that can be considered a commercially viable resource.

Low-temperature projects at Chena Hot Springs, Alaska, Blue Mountain, Nevada, Beaver County, Utah, and Lightning Dock, New Mexico, show that new geothermal technology is increasing the capacity for geothermal energy in the U.S.

But little is known about the actual potential at lower temperatures. “One of the biggest problems in the industry is a lack of basic resource assessment,” GEA’s Karl Gawell told the publication. “I wish someone knew what the U.S. geothermal potential was at 150 degrees. The DOE has done resource assessments for solar, wind and biomass, but it has almost refused to do geothermal because of statutory authority. The USGS used to do it, but now Interior has authority.” One area where research is underway is in California, where the California Geothermal Energy Collaborative, supported by the California Energy Commission, is trying to generate a new generation geothermal database map of California, the article said.

The article also mentioned oil-well geothermal projects, such as at the Rocky Mountain Oil Test Center in Wyoming. According to the article, 8,000 oil wells with potential to develop geothermal energy have been identified in Texas by Professor Richard Erdlac of the University of Texas and by DOE’s Geothermal Research Project Office.

## **Geothermal Industry Making Steady Progress**

An article on [seekingalpha.com](http://seekingalpha.com) called “Is Geothermal the Next Hot Energy Source?” gives a good overview of the great potential of geothermal energy. Geothermal energy is an environmental and economic choice, the article said, and although the industry is a small one, it is significant. Junior utilities looking to build their first geothermal plant or to develop into full-fledged utilities are the ones to watch, according to the article.

See <http://seekingalpha.com/article/123371-is-geothermal-the-next-hot-energy-source>.

## **State News**

### **Hawaii: Testing for Geothermal Energy Begins at Hualalai Mountain**

Ormat Technologies has begun a year-long study to determine whether Hualalai mountain could supply geothermal electricity to West Hawaii, according to the *Honolulu Star Bulletin*. A state study in 2000 found a 35% probability of heat in Hualalai.

"We're in the very preliminary stages of exploration," engineer Paul Spielman told press.

See [http://www.starbulletin.com/news/20090223\\_Geologists\\_test\\_volcano\\_as\\_source\\_for\\_power.html](http://www.starbulletin.com/news/20090223_Geologists_test_volcano_as_source_for_power.html).

## **International News**

### **European Countries Testing Sites for Geothermal Conditions**

An article on sciencedaily.com called “Geothermal Energy: Intelligent Use of the Earth’s Heat” discusses new approaches to geothermal development at sites in Europe. Four European geothermal locations have been tested with different conditions: two deposits with high-temperature reservoirs in Travale, Italy (metamorphic rocks) and in Hengill, Iceland (volcanic rocks) and two deposits with medium-temperature in deep sediment rocks in Groß-Schönebeck, Germany and Skierniewice, Poland. The projects were reported at I-GET, Integrated Geophysical Exploration Technologies for deep fractured geothermal systems.

See <http://www.sciencedaily.com/releases/2009/02/090227072650.htm>.

### **Armenia: GEF Grant to Aid Geothermal Development**

The World Bank’s Vice President for Europe Central Asia approved a US\$1.5 million Global Environment Facility (GEF) grant to Armenia’s Geothermal Project, according to armradio.am. The grant will assess the feasibility of exploratory drilling in Armenia in areas that have the highest geothermal potential, providing technical assistance for investigative work at the Gridzor and Karkar sites. This grant is part of the Regional Geothermal Energy Development Program (GeoFund).

See <http://www.armradio.am/news/?part=eco&id=14460>.

### **Australia: KUTh Exploration Pty Ltd Explores Geothermal Energy Potential**

Tasmanian company KUTh Exploration Pty Ltd has applied for another exploration license to add to its other licenses to assess the potential for geothermal energy, according to media.tas.gov.au. Minister for Energy and Resources David Llewellyn told press the company has been drilling to measure rock temperature and properties.

“So far the work has been to the east of the license application area and results have been promising. The company wishes to extend the drilling program into this new area,” Llewellyn told press, referring to the 4000 km<sup>2</sup> over the Central Plateau that would be added with the new license. “The company wishes to undertake a geochemical sampling program which, if successful, may lead to a seismic survey and possibly future drilling,” he added.

See <http://www.media.tas.gov.au/release.php?id=26012>.

### **Australia: Panax Announces Historic First Geothermal Measured Resource**

Panax Geothermal has announced a measured resource of 11,000 petajoules (PJ) at its Limestone Coast Geothermal Project in South Australia, according to proactiveinvestors.co.uk. “The Limestone Coast Geothermal Project has the potential to become a renewable energy project of national importance,” Panax Managing Director Dr Bertus de Graaf told press.

“The Measured Resource is more than five times larger than anything announced by other Australian geothermal companies and we have arrived at this without drilling a single well,” de Graaf added. “By any standard, the Measured Resource of 11,000 PJ is, in theory, large enough for operating a 1,000 MW power station for 30 years, or sufficient energy to power more than 500,000 homes.”

See <http://www.proactiveinvestors.co.uk/companies/news/4532/panax-geothermal-announces-historic-first-conventional-geothermal-measured-resource-in-australia-4532.html?PAX>.

## **China: U.S. Secretary of State Clinton Visits Geothermal Plant in Beijing**

Hillary Clinton, Secretary of State of the U.S., visited the Taiyanggong Gas Thermal Power Company Ltd geothermal power plant in Beijing on February 21, according to [energycurrent.com](http://energycurrent.com). Clinton showed a lot of interest in the plant and in the technology, according to the article, calling it "an example of creating jobs that we need in large quantity as well as an example of bilateral relations of cooperation and relations of private and public cooperation."

"We will work hard with the Chinese side to establish an important relationship of partnership, promote the use of cleaner energy, improve the efficiency of energy, carry out technological transfers beneficial to the two countries, jointly develop and popularize clean energy technologies, and turn towards economic growth with low-carbon discharges as fast as possible," Clinton said to an audience after inspecting the plant. "These technologies are very important to sustained economic development and to containing global issues brought about by climate change."

See <http://www.energycurrent.com/index.php?id=3&storyid=16245>.

## **Czech Republic: CEZ in Exploratory Stages for Geothermal Plant**

CEZ AS, central Europe's biggest power company, continues with plans to build the country's first geothermal power plant, according to [praguepost.com](http://praguepost.com). The company has issued a 250 million K (\$11.3 million) tender for exploratory work. The final decision on whether the plant will be built in Liberec will be determined after seeing results.

"Geothermal energy can help diversify the portfolio of energy resources within the Czech Republic," Jakub Kapar, a spokesman for the Environment Ministry, told press. "We have no more capacity for large hydroelectric plants, so it doesn't make sense to compare the two types of renewable energy."

The plant would contribute about 0.3% to overall Czech energy production, the article stated. The Czech Republic has a goal of 13% reliance on renewable energy sources by 2020, set by the European Commission in January 2008.

See <http://www.praguepost.com/business/593-liberec-to-explore-renewable-energy.html>.

## **Germany: Start-up Fund will Finance Geothermal Projects**

Munich Reinsurance Co., the German Federal Ministry for the Environment, and state-owned KfW Bankengruppe will each contribute €20 million (\$25.6 million) to finance geothermal development in Germany, according to [businessinsurance.com](http://businessinsurance.com).

"This cooperation is intended to be a start-up, which will make it easier to finance projects in the field of renewable energy," Thomas Blunck of Munich Re's Board of Management said in a statement. "We see climate change not only as a risk but also as a great opportunity, because if climate protection is pursued resolutely, it will lead to enormous growth potential in new technologies like the generation of power from renewable sources."

See [http://www.businessinsurance.com/cgi-bin/news.pl?post\\_date=2009-02-25&id=15529](http://www.businessinsurance.com/cgi-bin/news.pl?post_date=2009-02-25&id=15529).

## **India: Renewable Energy Minister Lauds Geothermal Potential**

Minister of State for New and Renewable Energy Vilas Muttemwar commented on the immense geothermal energy potential in India to the Lok Sabha of the Parliament of India, according to [cleantechgreentech.com](http://cleantechgreentech.com). The three main areas of potential development have been found in Ladakh in Jammu and Kashmir and in Chhattisgarh and Manali in Himachal Pradesh, he said.

Regarding the country's renewable energy production, the country is producing 13700 MW of power roughly through renewable energy sources, Minister Muttemwar said, and 25,000 remote villages that were previously off the grid will receive electricity from renewable sources. The government is offering preferential tariff for grid interactive renewable power and is providing support for sector-specific seminars, workshops, and training programs, the Minister said, according to the article.

See <http://www.cleantechgreentech.com/news/directory/webindia123com/576157>.

## **Notices and Employment Opportunities**

### **FY09 Geothermal Technologies Program Geothermal Systems Funding Opportunity Announcement Special Notice**

From DOE:

On February 27, 2009, the U.S. Department of Energy's (DOE's) Geothermal Technology Program (GTP) intends to issue a Funding Opportunity Announcement (FOA) to continue its partnership with the geothermal community to develop Geothermal Systems Research and Demonstration throughout the U.S. The FOA will focus on areas associated with geothermal energy as outlined in the Energy Independence and Security Act of 2007 (EISA). The specific sections under EISA related to geothermal technologies that are intended to be the focus of this FOA are sections 613, 614, 615, 616, 620, and 625.

DOE will be seeking applications that present opportunities to expand geothermal power production beyond western states where geothermal power production currently exists, can start immediately and maintain an aggressive schedule for completion within 24 months, and can demonstrate job creation and maintenance.

This special advance notice is intended to provide potential applicants the opportunity to develop partnerships and begin the process of gathering data to prepare their application.

The sections of EISA are described in more detail at the following link: <http://leahy.senate.gov/issues/FuelPrices/EnergyIndependenceAct.pdf>. DOE anticipates providing \$50-100 million for this FOA, depending on availability of appropriated funds. Cost share will vary within each Section.

This Special Announcement is intended to provide potential applicants advance notice of an upcoming GTP FOA. NO APPLICATION WILL BE ACCEPTED THROUGH THIS SPECIAL NOTICE. Prospective applicants should begin developing partnerships, formulating ideas, and gathering data in anticipation of the issuance of this FOA scheduled for February 27, 2009. If you would like to submit comments for the upcoming FOA on areas of focus within the aforementioned Sections of EISA, please email your comments to [go.geothermal@go.doe.gov](mailto:go.geothermal@go.doe.gov).

See [http://e-center.doe.gov/doebiz.nsf/UNID/DD13EE624BE45F7C852575530065B390/\\$file/Special+Announcement+-+February+2009+-+Geothermal+Program.pdf](http://e-center.doe.gov/doebiz.nsf/UNID/DD13EE624BE45F7C852575530065B390/$file/Special+Announcement+-+February+2009+-+Geothermal+Program.pdf).

### **DOE Multi-Year Research, Development, and Demonstration Plan Published**

The Department of Energy has published its new multi-year plan for research. The Geothermal Technologies Program (GTP) Multi-Year Research, Development and Demonstration (MYRDD) Plan describes the planned research, development and demonstration (RD&D) activities for geothermal technologies through 2015, with additional information on potential program activities through 2025.

This is the first publishing of this document in draft form and represents months of planning, including peer reviews and comprehensive internal analysis and evaluation. On this page you will find links to the full document as well as to a comments form.

The MYRDD reflects GTP's focus on advancing enhanced geothermal systems (EGS) technologies and its commitment, in partnership with geothermal energy developers, to demonstrate by 2015 that EGS is technically feasible. The MYRDD Plan describes in detail GTP's activities over the next seven years to achieve this goal and it projects longer-term RD&D activities based upon several EGS development scenarios.

The MYRDD Plan and a form for comments are available at <http://www1.eere.energy.gov/geothermal/plans.html>.

## **GEA Seeking Input for New Geothermal Industry Update**

GEA is preparing its next industry update to be released in early March 2009 and would appreciate help identifying new projects geothermal projects, and is seeking other constructive comments or suggestions to make this report more effective.

In August 2008, the Geothermal Energy Association published a report outlining the status of geothermal projects currently operating and those under development in the U.S. for the past two years. This last update, U.S. Geothermal Power Production and Development Update: August 2008, is at: [http://www.geo-energy.org/publications/reports/Geothermal\\_Update\\_August\\_7\\_2008\\_FINAL.pdf](http://www.geo-energy.org/publications/reports/Geothermal_Update_August_7_2008_FINAL.pdf).

If you have information to add to the new update, or other constructive suggestions, please contact Kara Slack at [kara@geo-energy.org](mailto:kara@geo-energy.org), or by phone at 520.904.4879.

## **California Division of Oil, Gas, & Geothermal Resources Offices Furloughed**

Effective February 6, California Division of Oil, Gas, & Geothermal Resources offices will be closed on the first and third Friday of each month. Please call 916-322-1110 (Northern California including Mono County) or 714-816-6847 (Southern California) for on-demand field tests or emergencies. They apologize for any inconvenience this may cause.

## **Employment: Chief Reservoir Engineer, CalEnergy**

Collects and processes information on well-field and plant performance, diagnoses well problems and designs procedures to fix them. Requires a leadership role in data collection and problem solving. Uses advanced interpretation techniques of reservoir simulation to provide essential information for the resource department's function of reservoir development and forecasting. The data is also used to support plant operations and comply with governmental reporting.

### **Qualifications:**

Bachelor's degree or higher in engineering, preferably petroleum. At least fifteen years of related experience and/or additional resource engineering-related training. Geothermal resource engineering experience is required and some petroleum engineering experience in oil and gas is also desired.

To apply for this position and to view a complete job description, please visit our web site at [www.calenergy.com](http://www.calenergy.com).

## **Employment: Director of Geothermal Resources, CalEnergy**

This position manages and directs the geothermal resources of the company. Responsibility of all geothermal well fields in which MidAmerican Energy Holdings Company has an interest, including the operating well fields of the Salton Sea (Imperial Valley, CA) and non-operating prospects in inventory and of development projects. This position manages the drilling and resource departments, including drilling operations on a 24/7/365 basis and other well maintenance work as required. This position is also responsible for providing a broad range of technical and scientific support to power generation operations, including resource and drilling operations, environmental compliance, development and other departments as required. As the top resource oriented technical position in the company, this position represents the company for resource technical issues in manners such as testimony before legal or regulatory agencies such as the California Energy Commission or the California Department of Oil, Gas and Geothermal Resources, or discussions to partners, financial institutions, trade groups, or environmental groups on well field related issues.

### **Qualifications:**

Minimum of a bachelor's in engineering, earth sciences or related field. Have advanced degrees, training, and certifications specific to resource related topics. Has a minimum of 10-15 years of demonstrated application of a diverse technical knowledge in all resource disciplines including reservoir engineering, drilling engineering, production engineering, reservoir modeling, geology, geophysics and geochemistry. Must have excellent skills in economics and planning. Must have shown successful managerial leadership in the fields of reservoir engineering and earth sciences, with a minimum of 10 years of management experience in this area. Must have working knowledge of geothermal power plant operations in relation to their relative effect or demands on the resource/well field operations in relation to plant operation. Knowledge of thermodynamics and metallurgy required. Advanced spreadsheet and computer database skills a must.

To apply for this position and to view a complete job description, please visit our web site at [www.calenergy.com](http://www.calenergy.com).

## **Employment: Senior Environmental Coordinator, CalEnergy**

The senior environmental coordinator works with operating unit personnel to ensure awareness of and compliance with environmental regulations, policies and procedures and requirements of the company, assisting the operating group in the development of solutions to environmental issues. Monitors chemical, physical and biological hazards that could be present. Investigates environmental incidents and reports incidents to appropriate regulatory agencies. Assists with the development and delivery of environmental procedures and training. Implements environmental compliance self-inspections and recommends appropriate action to facility management. Recommends improvements in processes, design, procedures and operations to minimize environmental incidents. Maintains close contact with environmental health and safety, laboratory, operations and maintenance and other company departments. Assists in maintaining facilities' environmental licenses, permits and authorizations.

### **Qualifications:**

Bachelor's degree in chemistry, environmental sciences or related field and 3-5 years environmental experience or equivalent work experience. (Typically six years of related, progressive work experience would be needed for candidates applying for this position who do not possess a bachelor's degree.) Five years of related experience. Background working in all environmental media. Demonstrated air, water, or waste/land use experience is required. A broad diversity of environmental work experience in private industry, governmental, and consulting is preferred.

To apply for this position and to view a complete job description, please visit our web site at [www.calenergy.com](http://www.calenergy.com).

## **Participants Sought for ESP Design Meeting (February 11, 2009)**

Participants sought for an all-day design meeting for the ideal ESP, to be held in Palo Alto on Wednesday, February 11.

A limited number of participants are being sought for a one-day design meeting. The goal of the meeting is to develop the criteria for the ideal ESP (e.g., temperature, horsepower, diameter, efficiency, etc). Individuals knowledgeable in down hole submersible pumps and high temperature motors are explicitly sought. Representatives from pump companies are welcome.

Elevated temperatures in confined subsurface environments pose a unique set of challenges not encountered in other areas of energy retrieval. Recognizing this, a geothermal prize is being developed to spur innovation and accelerate the manufacturing of robust geothermal pumps. The goal is a set of design criteria for an ESP pump that is technically feasible within the next five to seven years.

The initial stages of this prize project are being funded by the Lemelson Foundation. To learn more about this project please contact Lawrence Molloy at [Lawrence.Molloy@gmail.com](mailto:Lawrence.Molloy@gmail.com).

## **Employment: Project Director, Municipal Clean Energy Project, Alliance to Save Energy**

The Alliance to Save Energy is seeking a Project Director to start-up and to lead the Municipal Clean Energy Project (MCEP). The MCEP is a new multi-year, national initiative to encourage investment in, and deployment of, energy efficiency and clean energy programs and policies by publicly owned power utilities in the U.S.

The Project Director will have oversight and responsibility for the entire MCEP program, will report to the Vice President of Programs for the Alliance as well as to the MCEP Steering Committee, and will liaise with key project partners.

The successful candidate must have at least five years of program management experience and three years of experience in one of the following areas: publicly owned utilities, municipalities and/or energy efficiency. The candidate must also demonstrate organizational, writing and communications expertise and have the ability to work with senior level executives to both design and lead multi-faceted programs and initiatives. S/he must have a demonstrated ability to build and lead partnerships and/or coalitions. The candidate will work in a fast-paced environment with highly motivated staff in a rapidly growing, energy efficiency-focused organization. The position requires a modest amount of travel, mostly within the U.S. Candidates must have at minimum a Bachelors degree, Masters preferred.

Initial funding has been secured from a major foundation for the development of this initiative and the donor has expressed their interest in the future expansion of the program. Additional proposals have already been submitted to other funding sources. The current funding cycle is through 2011.

The position responsibilities include, but are not limited to, the following:

- Manage MCEP logistics, including budgeting, communications reporting, maintenance of the project web site, and supervision of project personnel and contractors;
- Liaise with the MCEP Steering Committee and project partners;
- Compile, field test and produce “best practice” tool kits for use by MCEP participants;
- Coordinate with project partners in the delivery of MCEP workshops and the tracking of workshop outcomes;
- Manage special events, including a project launch and Municipal Clean Energy Summits;
- Integrate the activities of the MCEP with other leading clean energy policy initiatives.

Salary is competitive based upon experience. The Alliance to Save Energy offers a generous benefits package and a comfortable work environment in downtown Washington DC convenient to Metro.

Consideration of candidates will begin immediately and continue until the position is filled. The Alliance is an equal opportunity employer.

Applicants should send a cover letter, resume, salary history and references no later than December 1, 2008 by mail to Dianne Streat, Director of Administration, Alliance to Save Energy, 1850 M Street, N.W, Suite 600, Washington, DC 20036, or via email to [dstreat@ase.org](mailto:dstreat@ase.org). No calls please.

### **Resource Development Opportunity – Rosebud Sioux Tribe, Rosebud, SD**

The Native American Tribe near Mission SD has a deposit of geothermal energy under their large Rosebud Reservation in South Dakota. See U.S. News & World Report, November 7, 2007, DOE map of U.S. Geothermal Hotspots, p. 52, reference to deposit p. 50.

Leigh Bryant-Zarse, the architect, engineer, and consultant in Wisconsin who is submitting this solicitation, attended a meeting of the Tribe Council on September 16, 2008. The Tribe presented him with a resolution to approach developers with free exploration rights on their reservation, and agreed to split 1/10 of 1% of the energy profits for a period of 2 years, if found. These parties are looking for help to develop the resource. The reservation exists under a sole ownership, making it easy to deal with.

Contact: Leigh Bryant-Zarse, Architect-Engineer-Consultant, 1812 Mountain Ave., Wauwatosa, WI 53213-2336, phone and fax: 414-259-1812  
Rosebud Sioux Tribe: Chief Rodney Bordeaux, PO Box 430, Rosebud, SD 57570, phone 605-747-2381

### **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)

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

#### **RFP for Renewables, Oklahoma Gas and Electric (February 27)**

The Oklahoma Gas and Electric Company seeks 300 MW of eligible wind energy resources that will be interconnected to the Southwest Power Pool and operational by 12/31/10. Notice of Intent to Bid due 2/9/09, final proposals due 2/27/09.

For more info, go to: <http://www.oge.com/es/rfp/wind2008-rfp.asp>. (Green Power Network 12/10/08)

#### **RFP for Alternative Fuels & Clean Cities, U.S. DOE (February 27)**

The U.S. Department of Energy requests proposals for Clean Cities FY 09 Petroleum Reduction Technologies Projects for Transportation Sector, for projects covering a range of alternative fuel and transportation-related technology deployment and educational activities. Areas of interest include: 1) Refueling Infrastructure for Alternative Fuels, 2) Incremental Costs of Dedicated Alternative Fuel Vehicles, and 3) Education and Outreach Workshops for Petroleum Reduction Fuels and Technologies. Up to \$6 million expected to be available, up to 24 awards anticipated. Responses due 2/27/09.

For more info, contact Janet Laukaitis at [janet.laukaitis@netl.doe.gov](mailto:janet.laukaitis@netl.doe.gov) or go to: <https://e-center.doe.gov/iips/faopor.nsf/0ba000b968a07c9885256c3f0067b90d/1a2666e72e53ddbe85257527005b80df?OpenDocument>. Refer to Sol# DE-PS26-09NT01236-00.

#### **RFP for Environmental Sustainability, National Science Foundation (March 1)**

The National Science Foundation requests proposals for the Environmental Sustainability Program. This program supports engineering research that seeks to balance society's need to provide ecological protection and maintain stable economic conditions. The four principal research areas include: Industrial Ecology, Green Engineering, Ecological Engineering, and Earth Systems Engineering. Responses due 3/1/09.

For more info, contact Bruce Hamilton at [bhamilto@nsf.gov](mailto:bhamilto@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501027](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027). Refer to Sol# PD-09-7643. (Grants.gov 12/5/08)

## **RFP for Environmental Implications of Emerging Technologies, National Science Foundation (March 1)**

The National Science Foundation requests proposals for the Environmental Implications of Emerging Technologies Program. This program provides support to develop and test the environmental effects of new technologies and emphasizes engineering principles underlying technology impacts. Innovative production processes, waste reduction, recycling, and industrial ecology technologies are of particular interest. Responses due 3/1/09.

For more info, contact Paul Bishop at [pbishop@nsf.gov](mailto:pbishop@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501030](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030). Refer to Sol# PD-09-1179. (Grants.gov 12/5/08)

## **Comments Sought on Draft Documents, Map, Western Renewable Energy Zones Initiative (March 2)**

The Western Renewable Energy Zones Initiative urges all interested parties to comment on areas that have been identified through the WREZ process as having high quality and developable renewable resources. The aim of the WREZ initiative is to expedite the development and delivery of electricity generated by renewable energy.

Key Dates and Events:

- Present - April 2009 - ZITA and E&L work groups continue to refine recommendations
- February 2 - March 2, 2009 - Public comment period
- April 23 - 24 2009 - Technical Committee meeting in Salt Lake City, Utah to recommend final REZs, and next steps for Phases 2 - 4 to the Steering Committee
- April TBD - Comment period on revised REZ maps that identify areas with wildlife sensitivities
- April - May 2009 - Steering Committee acts on Technical Committee recommendations
- June 14 - 16, 2009 - WREZ Phase 1 report on the identification and mapping of commercial renewables, including REZs, presented to the governors and premiers at WGA's Annual Meeting
- Fall 2009 - Phase 2 conceptual transmission planning report completed. Phase 3 discussion begins among utilities on coordinated procurement. Phase 4 collaborative efforts begin among state and federal agencies in the review of permits for interstate transmission.

For general questions, contact Madeleine West, Energy Program Associate, [mwest@westgov.org](mailto:mwest@westgov.org), 303-623-9378 ext. 125

Several draft documents and a map are available for review and comment. Background on the WREZ project is provided below and can be viewed online at:

[http://rs6.net/tn.jsp?et=1102433942863&e=001eKTxUuCS9bosPScXmm03jt4vgEMtGWGxxHec00s6q99ERneXH\\_nquSz2jicR8Z7Fg6WfYyF9Q4VPIQPMwEMH\\_oW9hXV20VRgvrWKMM-A2henMQwejPltdtqrMtv3eNPmj3e-Z3J9NIj3VPbFtipDakrurHYafn2fBoHBQGEgs8=](http://rs6.net/tn.jsp?et=1102433942863&e=001eKTxUuCS9bosPScXmm03jt4vgEMtGWGxxHec00s6q99ERneXH_nquSz2jicR8Z7Fg6WfYyF9Q4VPIQPMwEMH_oW9hXV20VRgvrWKMM-A2henMQwejPltdtqrMtv3eNPmj3e-Z3J9NIj3VPbFtipDakrurHYafn2fBoHBQGEgs8=).

## **RFP for Community Action for a Renewed Environment, U.S. EPA (March 16)**

The U.S. Environmental Protection Agency requests proposals for the Community Action for a Renewed Environment (CARE) program. CARE is a community-based, community-driven, multimedia demonstration program designed to help communities understand and reduce risks due to toxic pollutants and environmental concerns from all sources. \$3 million expected to be available, up to 18 awards anticipated. Responses due 3/16/09.

For more info, contact Dennis O'Connor at [occonnor.dennis@epa.gov](mailto:occonnor.dennis@epa.gov) or go to: [http://www.epa.gov/air/grants\\_funding.html](http://www.epa.gov/air/grants_funding.html). Refer to Sol# EPA-OAR-IO-09-02. (Grants.gov 12/17/08)

## **RFP for Combined Heat and Power, California Energy Commission (March 19)**

The California Energy Commission requests proposals for the Combined Heat and Power and Combined Cooling, Heating, and Power Grant Solicitation. Through this RFP, the CEC seeks RD&D projects that will advance the science, technology, and market penetration in CA of grid-connected, Combined Heat and Power (CHP) systems, which are closely integrated with prime movers (engines, turbines, and fuel cells). Proposals due 3/19/09.

For more info, go to: <http://www.energy.ca.gov/contracts/pier.html>. Refer to PON# 08-005.

### **Upcoming Events**

#### **Energy Commission and California Department of Fish and Game Joint Workshops, March 2 and March 5 (Sacramento, CA and Palm Springs, CA)**

Governor Schwarzenegger issued an Executive Order S-14-08 in November of last year that established a goal of 33% of retail sellers' electricity to come from renewable resources by 2020. The order directs the California Energy Commission and the California Department of Fish & Game (DFG) to identify renewable development areas and, within these designated areas, to reduce permitting times for renewable generation facilities by 50%.

To implement these directives, the Energy Commission and California Department of Fish and Game will hold joint workshops in Sacramento and Palm Springs to solicit input from all interested stakeholders. The workshops are scheduled for:

- \* March 2, 2009, in Sacramento
- \* March 5, 2009, in Palm Springs

A formal workshop notice containing the details on how you can participate will be sent out in the next few days. The Energy Commission and DFG will be joined in hosting these workshops by the U.S. Bureau of Land Management, the U.S. Fish and Wildlife Service, and the California Public Utilities Commission.

Other governmental agencies are also being invited to participate, including counties whose jurisdictions include portions of the Mojave and Colorado Deserts: Imperial, Inyo, Kern, Los Angeles, Riverside, and San Bernardino. Notices, documents, reports, and public comments will be posted on the Energy Commission's Web site as they are released. To receive e-mail notification of workshop notices and information about the implementation of the Executive Order, please sign up for the "33 by 2020" electronic list server on the webpage listed below. Paul Richins California Energy Commission [prichins@energy.state.ca.us](mailto:prichins@energy.state.ca.us) 916-654-4074 For more information: <http://www.energy.ca.gov/33by2020/>.

#### **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 exhibiting at this event. GEA has also organized panels for Wednesday and Thursday on “Enhanced Geothermal Systems,” “U.S. Geothermal Market,” and “Geothermal Finance and Incentives.” GEA’s Executive Director, Karl Gawell, will also be among the Keynote Session speakers on Tuesday, March 10<sup>th</sup>.

For more information and to register, visit <http://rewna09.events.pennnet.com/fl/>.

### **2009 Canadian Geothermal Energy Association AGM and Conference, April 22-24 (Vancouver, British Columbia, Canada)**

The Canadian Geothermal Energy Association (CanGEA) extends a cordial invitation to register for the 2009 CanGEA AGM and Conference in Vancouver, British Columbia running April 22-24.

Discover the benefits of a 2009 CanGEA membership and put yourself on the frontier of North American geothermal exploration. CanGEA corporate members receive extensive benefits and exposure through one of the world's most visited geothermal websites.

For more information, please visit <http://www.cangea.ca>.

### **Featured Event: GEA Project Showcase, Newseum, May 6, 2009 (Washington, DC)**

GEA will be inviting the DC energy policy and technology community to see geothermal energy projects under development in the West at the Newseum in Washington DC. Leading geothermal companies in the U.S. will show their new geothermal projects either near completion or just coming online. Companies will share footage (video or stills) and talk about their projects. A panel discussion with moderator is also expected to be part of this half-day event. For more information contact Kathy Kent at [kathy@geo-energy.org](mailto:kathy@geo-energy.org).

### **Featured Event: GEA Geothermal Finance and Development Workshop, Washington Convention and Trade Center, June 3, 2009 (Seattle, WA)**

GEA will hold its next in a highly successful series of Finance and Development Workshops in Seattle, WA on June 3. The agenda of this workshop will include a U.S. Geothermal update, panel of project developers, technology panel, finance panel, community/environmental panel, tribal and power company perspectives, keynote presentations by the Mayor of Seattle and other notable invitees. While encompassing development across the U.S., some presentations will focus on the Pacific Northwest. This event will be promoted nationwide and to the media. For more information contact Kathy Kent at [kathy@geo-energy.org](mailto:kathy@geo-energy.org).

### **Geothermal Energy Utilization Associated with Oil and Gas Development, Southern Methodist University Campus, June 18–19, 2009 (Dallas, TX)**

SMU Geothermal Laboratory and Huffington Department of Earth Sciences will be hosting Geothermal Energy Utilization Associated with Oil and Gas Development, June 18–19 at the Southern Methodist University Campus in Dallas, Texas.

This conference specializes in the use of oil and gas fields for geothermal electrical development. Existing oil and gas field data can be used for the initial exploration phase and in some cases the wells themselves can be directly put into production. The end user of the electricity can be as close as the field itself, or sold through power agreements. The technology for this lower temperature resource can highly vary and is still considered cutting edge, so are one highlight of the conference. Technology, Resources, Finance, Engineering, ... all aspects of power development are covered.

Interested in being a conference presenter? Please contact David Blackwell: 214-768-2745 or [blackwel@smu.edu](mailto:blackwel@smu.edu).

Details at: [http://smu.edu/geothermal/Oil&Gas/2009/Geothermal\\_Energy\\_Utilization.htm](http://smu.edu/geothermal/Oil&Gas/2009/Geothermal_Energy_Utilization.htm)

### **Featured Event: GEA Direct Use/Small Power Finance Workshop, Oregon Institute of Technology (OIT), August 12-13, 2009 (Klamath Falls, OR)**

GEA in cooperation with OIT will host a geothermal direct-use and small power workshop in Klamath Falls, Oregon in the summer of 2009. The format would be an all day workshop with a site tour the following day. Included in the workshop agenda will be the how-to's of financing a small power/direct use project, direct use technology, presentations of small projects and direct use projects today and information about drilling and exploration for such projects. For more information contact Kathy Kent at [kathy@geo-energy.org](mailto:kathy@geo-energy.org).

### **Renewable Energy Indonesia 2009 Trade Show, October 14–17, 2009 (Jakarta, Indonesia)**

Renewable Energy Indonesia 2009 is the 5th international exhibition for all renewable energy technologies. It will be held at the International Exhibition Centre at Kemayoran, October 14–17, 2009.

For more information please contact your nearest Allworld office:

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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)