

# Geothermal Energy Weekly

A publication of the  
Geothermal Energy Association

*~formerly the GEA Weekly Update~*



## This Week

February 12, 2010

<b><i>National News</i></b> .....	<b>3</b>
Renewable Energy Tax Bill Extends and Expands Stimulus Renewable and Geothermal Tax Credits.....	3
2010 Outlook for Renewable Energy: Industry Leaders Call for Immediate Passage of Key Policies to Create Jobs and Maintain American Competitiveness.....	5
<b><i>Company News</i></b> .....	<b>7</b>
Ormat Technologies: Acquisition of 16-MW Nevada Plant Announced.....	7
Ormat Technologies: California Plant in Service, Operating at 17 MW.....	7
Ram Power and NV Energy: PPA Announced for Central Nevada Geothermal Plant.....	8
Vulcan Power: Geothermal Company Begins Drilling on First Power Plant.....	8
<b><i>State News</i></b> .....	<b>8</b>
Arizona: GreenFire to Explore CO <sub>2</sub> -Based Geothermal Energy.....	8
Colorado: Geothermal Pulled from BLM Auction.....	9
<b><i>International News</i></b> .....	<b>9</b>
Australia: Penola Geothermal Well Drilling 25% Complete.....	9
Indonesia: PLN to Call Tenders for 10,000 MW Plants.....	9
Indonesia: Pertamina Seeking US\$2.5b for 1,070 MW Geothermal Development.....	10
Kenya: Work to Begin on \$1.3 Billion Geothermal Deal.....	10
Philippines: DOE to Award 10 Contracts in Geothermal Bidding Round.....	10
Philippines: Basic Energy Starts Geothermal Exploration in Batangas.....	10
<b><i>Notices</i></b> .....	<b>11</b>
Notices.....	11
Colorado ARRA Grant Schedule Posted, Governor's Energy Office.....	11
2009 Excellence in Renewable Energy Awards, Renewable Energy World (February).....	11

***Employment*..... 11**

Employment Opportunities ..... 11

    Project Manager Geothermal Exploration, Europe ..... 11

    Exploration Geologist, Western U.S. .... 12

    Senior Director, Business Development, Major Geothermal Company ..... 13

    Geothermal Project Supervisor, Central American Bank for Economic Integration, Costa Rica ..... 14

***Requests for Proposals*..... 14**

Closing This Week ..... 14

    International Development Grants (February 12) ..... 14

    Tribal Energy Projects – BPA Service Territory (February 15) ..... 14

    New Electric Resources – Washington (February 15)..... 15

    Environmental Video Contest (February 16)..... 15

    Clean Energy Deployment, Recovery Act, New York (February 16, 2010) ..... 15

Added This Week..... 15

    Renewable Energy Credits (February 22)..... 15

    Renewables, Efficiency and Water Conservation – Worldwide (TBA April 5) ..... 16

RFP Announcements ..... 16

    Seeking Investor, Geothermal Project, Oregon ..... 16

    Geothermal Energy Development, Department of the Navy..... 16

    Request for Bids. Pilgrim Hot Springs Property Sale Extended (February)..... 17

    Thermal Transport, National Science Foundation (March 3, 2010)..... 17

    Energy for Sustainability, National Science Foundation (March 3, 2010) ..... 17

    Environmental Engineering, National Science Foundation (March 3, 2010)..... 17

    Environmental Sustainability, National Science Foundation (March 3, 2010) ..... 18

    Environmental Implications of Emerging Technologies, National Science Foundation (March 3, 2010) ..... 18

    Technology Solutions, 2010 Tech Awards Nominations (March 31, 2010) ..... 18

    Emerging Frontiers in Research and Innovation (March 31, 2010) ..... 18

    RFP for Smart Grid Investments, DOE, American Recovery and Reinvestment Act (March 31, 2010)..... 19

    Climate Adaptation and Disaster Resilience – Indonesia (July 26) ..... 19

    U.S. DOE Office of Science (September 30)..... 19

***Events*..... 20**

GEA Events ..... 20

    Renewable Energy World North America 2010, February 23–25, 2010 (Austin, TX)..... 20

    CGEC California Geothermal Energy Summit, May 12, 2010 (Davis, CA)..... 22

    GEA Geothermal Symposium, May 21, 2010 (Washington, DC) ..... 23

    GEA Geothermal Energy Workshop, July 22, 2010 (Las Vegas, NV)..... 23

    GEA Trade Show and GRC Annual Meeting, October 24–27 (Sacramento, CA)..... 23

    Why Should You Attend GEA Events? ..... 23

Other Events ..... 23

    Imperial Valley Renewable Energy Summit & Expo, March 16–18 (East Imperial Valley, CA)..... 23

Oregon Geothermal Working Group Meeting, March 23 (Portland, OR) .....23  
 Renewables Rendezvous, Power Engineers, March 23–24 (Boise, ID) .....24  
 Clean Energy and Business Development Mission, U.S. Department of Commerce, May 23–25 (Indonesia).....24



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



***National News***

**Renewable Energy Tax Bill Extends and Expands Stimulus Renewable and Geothermal Tax Credits**

Rep. Blumenauer’s renewable energy tax bill, H.R. 4599, was introduced on February 4 with a strong list of cosponsors to extend and expand the stimulus bill's renewable and geothermal tax credits. The legislation extends the geothermal tax credit and extends the grant program in the form of a refundable tax credit for projects which begin construction after 2010 and before 2013, and which are placed in service before the credit expiration date.

The Statement for the Record from Congressman Earl Blumenauer on February 4 2010, to the House of Representatives, Congress of the United States.

The impacts of a changing climate are far-reaching, representing a threat not only to our natural ecosystems but to our national security as well. To help avoid the worst effects of carbon pollution, consumers must have a dependable supply of energy that is clean, renewable, and America. The right combination of tax incentives, regulatory changes, and investment in research and development for cleaner energy can expand the renewable energy market, put renewable energy on an equal footing with traditional fossil fuels, and create good domestic jobs in the clean energy industry.

During the economic crisis, renewable energy investors were unable to take advantage of tax credits offered by the federal government to spur renewable energy investment and production. For example, many industry analysts anticipated that in 2009 wind power development would drop by as much as 50% from 2008 levels, with equivalent job losses.

To avoid this outcome, the federal government shifted its tax credit contribution to these projects into cash grants for qualifying projects. This program was extremely successful. In 2009, as a result of these policies, the U.S. wind industry broke all previous records by installing nearly 10,000 megawatts of new generating capacity in 2009. Other renewable energy providers reported similar gains.

This grant program expires on December 31, 2010. The legislation that I am introducing today, the Renewable Energy Expansion Act, will ensure that these benefits are not lost and will ensure that consumers continue to gain better access to sources of clean, renewable energy.

The Renewable Energy Expansion Act allows taxpayers to elect to receive a tax credit that functions as a direct payment for investing in or producing renewable energy. The amount of the payment is tailored to equal the subsidy provided under the American Recovery and Reinvestment Act's energy grant program. The legislation provides taxpayers the option to receive this new credit or to use the ARRA-created grant program, depending on which program best matches their needs. The legislation also ensures the smooth continuation of our underlying commitment to clean, renewable energy by carrying forward existing guidance and making technical changes to improve the underlying program. Finally, the legislation extends the credit until January 1, 2013.

The legislation makes several technical improvements to the underlying grant program. First, it eliminates an unintended consequence of the normalization rules that limited the ability of regulated utilities to develop renewable power facilities, even if the project otherwise met the prudency tests required by their public utilities commissions. I look forward to seeing added renewable power capacity' in my state as a result.

Second, the legislation also improves the investment climate for renewable projects by streamlining access to these investments by investment funds with tax-exempt investors. The proportional disallowance rules that are part of the legislation provide an important balance between protecting federal investments while opening up increased sources of development capital for renewable power developers. In that same vein, this legislation adopts changes that will increase the ability for real estate investment trusts to access these investments and I look forward to an expanding pool of investment capital for these projects in the future.

Finally, it is important to emphasize that the regulatory guidance that has been developed under the American Revitalization and Recovery Act's section 1603 grant program will be adopted by this legislation. It is important for the renewable energy industry—and for the investment community that supports it—to have certainty in the nature of the federal commitment. Having built a smoothly functioning guidance structure under the 1603 program, it provides no benefit to unsettle that understanding. It is my expectation that within 60 days of the enactment of this legislation the Treasury Department will issue guidance integrating the existing guidance into this new framework.

This legislation will help transition America to a clean energy economy. I look forward to working with my colleagues to realize that goal.

For more information about H.R. 4599, including its cosponsors and updates on its status, go to: <http://thomas.loc.gov/> and search by bill number for "H.R. 4599" under the heading "Legislation in Current Congress."

See <http://www.lexology.com/library/detail.aspx?g=3fa865f8-12e7-4352-8c53-e4d2defa4f30>, <http://djcoregon.com/news/2010/02/05/legislation-would-extend-federal-cash-grants-for-renewables-enrgy/>, and [http://blumenauer.house.gov/index.php?option=com\\_frontpage&Itemid=1](http://blumenauer.house.gov/index.php?option=com_frontpage&Itemid=1).

### **2010 Outlook for Renewable Energy. Industry Leaders Call for Immediate Passage of Key Policies to Create Jobs and Maintain American Competitiveness**

Washington, D.C. (February 9, 2010) — Today, top executives in the renewable energy sector gathered to applaud 2009's strong renewable energy development but emphasized the need for Congress to swiftly enact key policies to continue accelerated growth across the entire sector in order to add jobs and boost economic growth in 2010.

Executives stressed that if these policies are not enacted, the renewable energy sector could face a downturn in investment and jobs in 2010. Participants in today's press conference represented the full scope of the renewables sector, including Denise Bode, CEO, American Wind Energy Association (AWEA); Linda Church Ciocci, Executive Director, National Hydropower Association (NHA); Robert Cleaves, President and CEO, Biomass Power Association (BPA); Karl Gawell, Executive Director of the Geothermal Energy Association (GEA); and Rhone Resch, President and CEO, Solar Energy Industries Association (SEIA).

The renewable energy leaders called for Congress to pass a strong national renewable energy standard (RES) with clear near- and long-term goals, along with expansion and extension of credit incentives, and comprehensive legislation. These policies will maintain American competitiveness and attract tens of billions of dollars of investment in clean energy production and manufacturing facilities. A major new study conducted by Navigant Consulting, Inc. reveals that a 25% by 2025 national RES would result in 274,000 more renewable energy jobs than a no-national RES policy scenario.

"The RES is the best way to provide the certainty that companies need to expand wind manufacturing nationwide," said AWEA CEO Denise Bode. "The importance of building a strong renewable energy manufacturing base in the U.S. cannot be overstated. The U.S. has a historic opportunity to fortify the clean energy economy but is committing unilateral economic disarmament by not giving itself the policy tools to do so."

"Policy matters in tapping hydropower's tremendous growth potential in every state, which will lead to the creation of well-paying, family-supporting jobs," said Linda Church Ciocci, Executive Director, NHA. "We need a strong RES, tax incentives and other support policy if we are to double hydropower's contribution to America's energy portfolio."

“Thousands of jobs in the biomass power industry could be lost if Congress fails to extend the production tax credit for biomass power that recently expired late last year. These tax credits are literally the life-line to many biomass power facilities that provide long-term high paying jobs in rural areas currently facing unemployment levels as high as 15 percent,” said Robert Cleaves, President of the Biomass Power Association. “Congress should support all American sources of renewable energy by renewing the production tax credit for biomass power and passing an aggressive national renewable electricity standard. Policies that promote the growth of America’s renewable energy sector will move the United States closer towards energy independence, create thousands of long-term clean energy jobs, and reduce our reliance on foreign sources of energy.”

“The United States has been the world leader in geothermal energy production and in the past years our industry has seen renewed growth, even despite the recession. This is a testament to the support of federal and state policies and highlights the potential for our country to continue to lead the world in geothermal production and technology,” said Karl Gawell, Executive Director, GEA. “This year Congress enacted stimulus legislation with a historic group of incentives supporting geothermal and other renewable technologies. Now in its 2011 budget, the Administration proposed additional measures, including ramping up incentives for the domestic manufacturing capacity needed to supply a growing geothermal power industry. The keys to sustain this growth will be adopting longer-term measures to support an increase in both new projects and the manufacturing and supply infrastructure. That means extending the stimulus bill’s tax incentives through 2016, adopting a strong renewable electricity standard, and other measures to keep the U.S. a leader in geothermal energy.”

“One of the fastest ways to create jobs in America is to invest in clean energy,” said Rhone Resch, president and CEO of the Solar Energy Industries Association. “These are quality jobs and they can’t be outsourced. From plumbers to electricians to construction workers, the solar industry created nearly 20,000 jobs last year with the support of the stimulus bill. We proved that we can create much-needed job growth now with the right policies in place. But we can only keep up that momentum if Congress enacts a jobs bill that promotes deployment of solar and other clean energy technologies.”

For more information on Navigant Consulting, Inc.’s study on the job impact of a national RES see <http://www.res-alliance.org/res-jobs-study>.

Coverage on the press conference included:

- Reuters: Wind, solar groups push renewable energy standard, <http://uk.reuters.com/article/idUKTRE6185B720100209>
- MarketWatch: Touting jobs, green lobbies push for federal help, [http://www.marketwatch.com/story/touting-jobs-green-lobbies-push-for-federal-help-2010-02-09?reflink=MW\\_news\\_stmp](http://www.marketwatch.com/story/touting-jobs-green-lobbies-push-for-federal-help-2010-02-09?reflink=MW_news_stmp)

- The Hill (blog): Renewables advocates stress production mandate, tax breaks in 2010 wish list, <http://thehill.com/blogs/e2-wire/677-e2-wire/80419-renewable-advocates-stress-production-mandate-tax-breaks-in-2010-wish-list>
- E&E News: Renewable Energy: Industries join together in plea for federal RES, <http://www.eenews.net/pm/>



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## *Company News*

### **Ormat Technologies: Acquisition of 16-MW Nevada Plant Announced**

Ormat Technologies, Inc. (NYSE: ORA) is pleased to announce that its wholly owned subsidiary, Ormat Nevada Inc. has signed an agreement to acquire 100% of the membership interests in HSS II, LLC, which includes the Hot Sulphur Springs Geothermal Project in the northern Independence Valley of northeast Nevada. The Project is in an advanced stage of development and has one successful well. The Company plans to construct and operate a geothermal plant on the site which expected to become operational in 2012.

The Project will sell its output pursuant to a new 20-year power purchase agreement (PPA), signed early February - 2010 with Nevada Power Company (a subsidiary of NV Energy, Inc.) Under the PPA, Nevada Power will purchase up to approximately 40 megawatts (MW) of electricity from the Project, which will be developed in stages with the first stage of approximately 16 MW. The PPA allows for adjustment of the supply amount at the first year after the commercial operation. The PPA is subject to approval by the Public Utilities Commission of Nevada

*For more, see <http://www.ormat.com/news.php?did=137>.*

### **Ormat Technologies: California Plant in Service, Operating at 17 MW**

Press Release, February 9 — Ormat Technologies, Inc. (NYSE:ORA) announced today that its North Brawley power plant in California has been placed in service and is currently operating at a stable capacity of 17 MW.

As previously disclosed, while the Company believes that the North Brawley reservoir is sufficient to support the 50MW output, the re-injection of the geothermal fluid has been a challenge due to the exceptional amount of un-dissolved solids in the geothermal fluid.

During the last few months the Company has made substantial progress in its ability to manage the solids production by installing temporary measures. As a result, the Company is now able to maintain a stable generation level of 17 MW, while awaiting the arrival of permanent equipment for the solids handling. The Company believes that the permanent equipment will provide both a higher efficiency and lower operating cost for the facility.

*For more, see <http://www.ormat.com/news.php?did=137>.*

**Ram Power and NV Energy. PPA Announced for Central Nevada Geothermal Plant**

Press Release, February 10 — NV Energy (NYSE: NVE) announced today that it has signed a 20-year power purchase agreement with a subsidiary of Ram Power Corporation (TSX: RPG) for energy that will be produced by a new geothermal power plant under development in central Nevada. The 32-megawatt Clayton Valley Geothermal Project is expected to be generating electricity by 2014.

Terms of the power purchase agreement, which is subject to approval by the Public Utilities Commission of Nevada, were not disclosed.

The generating plant is being developed on one of five geothermal leases that Ram Power has acquired from the Bureau of Land Management in Esmeralda County, approximately halfway between Reno and Las Vegas. According to the developer, Clayton Valley has sufficient geothermal resources to produce up to 160 megawatts of electricity, which is enough to serve up to 96,000 households. The project will be developed and operated by Ram Power subsidiary Clayton Valley 1, LLC.

For more, see <http://www.prnewswire.com/news-releases/nv-energy-to-purchase-power-from-central-nevada-geothermal-plant-84019212.html>.

**Vulcan Power: Geothermal Company Begins Drilling on First Power Plant**

Vulcan Power Co. will start construction on its first geothermal power plant within the year, according to bendbulletin.com. Drilling is in commencement stage near Patua Hot Springs in Nevada, funded by an \$108 million investment from Denham Capital, Bob Warburton, Vulcan's acting CEO told press. He added that Vulcan will add 50 to 60 jobs to drilling crews over the next several months. Vulcan has several other projects in development and received a \$3.8 million grant from the U.S. Energy Department in October. The grant, to be matched by Vulcan, will go toward research methods for finding hidden geothermal reservoirs with potential to generate commercial power.

See <http://www.bendbulletin.com/apps/pbcs.dll/article?AID=/20100211/BIZ0102/2110365/-1/RSSNEWSMAP> and <http://www.vulcanpower.com/html/vulcan.htm>.



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**State News****Arizona: GreenFire to Explore CO<sub>2</sub>-Based Geothermal Energy**

The *New York Times* reported on GreenFire Energy's plans to tap CO<sub>2</sub>-based geothermal energy from the St. Johns Dome formation, near Springerville, Arizona. The CO<sub>2</sub> will be compressed to a supercritical state, then reinjected into a deeper formation. Brought to the surface, the heat will power a 2-MW geothermal plant. A small portion of the CO<sub>2</sub> will remain underground. GreenFire plans to drill a series of exploratory wells this

year. GreenFire and Enhanced Oil Resources Inc., which holds rights to the CO<sub>2</sub>, in September announced a joint venture giving GreenFire exclusive access.

See <http://www.nytimes.com/gwire/2010/02/11/11greenwire-ariz-nm-border-region-targeted-for-co2-based-g-19188.html>.

### **Colorado: Geothermal Pulled from BLM Auction**

The Bureau of Land Management postponed the geothermal-lease sale scheduled earlier this month for further environmental reviews. Lynn Rust, the bureau's state deputy director for lands, energy and minerals told press the delay was due to opposition from area residents. James Jones, oil-and-gas landman, nominated the 800 acre site in Chaffee County for geothermal development. "It is the hottest and most active site in the state," he told press.

Check for updates at [http://www.blm.gov/co/st/en/BLM\\_Programs/oilandgas/leasing.html](http://www.blm.gov/co/st/en/BLM_Programs/oilandgas/leasing.html).

See [http://www.denverpost.com/headlines/ci\\_14361264](http://www.denverpost.com/headlines/ci_14361264) and <http://www.businessweek.com/ap/financialnews/D9DHGMG80.htm>.



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## *International News*

### **Australia: Penola Geothermal Well Drilling 25% Complete**

Panax Geothermal is more than a quarter of the way through the drilling of a geothermal well near Penola, in South Australia, according to abc.net.au. The project could be the first to be completed in Australia. "We're targeting a maximum depth of 4,000 meters," managing director, Bertus de Graaf told press. "We are a bit over a quarter of the way in the first eight, so we are very pleased with our progress."

See <http://www.abc.net.au/news/stories/2010/02/11/2816912.htm?site=southeastsa&section=news>.

### **Indonesia: PLN to Call Tenders for 10,000 MW Plants**

State power utility PT Perusahaan Listrik Negara (PLN) will call tenders for 10,000 MW of geothermal power projects beginning in March, according to antara.co.id. The first phase will cover construction of small-scale steam power plants outside Java. Tenders will later be called for plants in Java and in a number of areas in the country. PLN has a target of 150 MW combined capacity on operating plants built in the first phase of the government's 10,000-MW capacity development in 2011. The government has designated 93 locations across the country for implementation in the second phase of the 10,000-MW project.

See <http://www.antara.co.id/en/news/1265662842/pln-to-call-tenders-for-10-000-mw-plants-starting-march>.

**Indonesia. Pertamina Seeking US\$2.5b for 1,070 MW Geothermal Development**

PT Pertamina Geothermal Energy (PGE) is seeking US\$2–2.5 billion for construction of a 1,070 MW geothermal power plant, part of the government's second 10,000 MW power crash program, according to antara.co.id. Pertamina plans to build 10 geothermal power plants with a total combined capacity of 1,070 MW.

See <http://www.antara.co.id/en/news/1265662692/pertamina-seeking-us25b-to-build-power-plants>.

**Kenya. Work to Begin on \$1.3 Billion Geothermal Deal**

Kenya Electricity Generating Co. has signed a contract for \$1.3 billion for Sinclair Knight Merz Pty Ltd. on a 280-MW development, according to businessweek.com. Work will begin this month and is completion is anticipated in three years. "The scope of the project includes four 70-megawatt power generating machines, steam-gathering systems, substations, transmission lines and other infrastructure," Ken Gen Managing Director Edward Njoroge told press. The geothermal plant will be Kenya's biggest and is located near the town of Naivasha.

See <http://www.businessweek.com/news/2010-02-09/kenya-electricity-signs-1-3-billion-geothermal-deal-update1-.html>.

**Philippines. DOE to Award 10 Contracts in Geothermal Bidding Round**

The Department of Energy will award 10 more geothermal contracts under the Philippine Energy Contracting Round, according to mb.com.ph. "We will have to complete our geothermal bid round. There are about 10 more contracts to be awarded," Energy assistant secretary Mario Marasigan told press. Some of these are for conversion to re-align incentives with the Renewable Energy Act; others are for fresh pre-development works. The policy for geothermal "frontier areas" would be to allow investors to submit "unsolicited proposals."

See <http://www.mb.com.ph/articles/242174/doe-slates-new-geothermal-bidding-round>.

**Philippines. Basic Energy Starts Geothermal Exploration in Batangas**

Basic Energy Corp. has started exploration for a geothermal project in Batangas, according to bworldonline.com. Exploration activities in the first stage of the Mabini geothermal service contract will be geophysical and geological surveys covering 3,481 hectares at the Calumpan Peninsula. Initial assessments indicated that the area has a good potential for power generation that could be developed within a two- to three-year period.

See <http://www.bworldonline.com/main/content.php?id=6098>.



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



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## *Notices*

### Notices

#### **Colorado ARRA Grant Schedule Posted, Governor's Energy Office**

The Governor's Energy Office (GEO) has posted a schedule of anticipated American Reinvestment and Recovery (ARRA) grants to begin in January of 2010. The GEO plans to hold a webinar for each grant solicitation approximately one week after the official posting date. Note: the timeline is subject to change; grants may be pushed back to later dates, but will not open earlier. The schedule is available at <http://www.colorado.gov/energy/index.php?/resources/category/funding-opportunities/>.

#### **2009 Excellence in Renewable Energy Awards, Renewable Energy World (February)**

Presented by the editors of RenewableEnergyWorld.com and Renewable Energy World North America magazine, these awards recognize the most outstanding projects, programs and technologies in the wind, solar, biomass, geothermal and hydroelectric energy sectors. Awards will be presented during Renewable Energy World North America Conference & Expo in Austin, Texas, February 23-25, 2010. Submit your nominations today! See <http://www.renewableenergyworld.com/partner/rew/online/2009-11-17/>.



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## *Employment*

### Employment Opportunities

#### **Project Manager Geothermal Exploration, Europe**

##### Job Description

We are a new geothermal energy company, focused on the exploration and development of geothermal power resources in Europe. In 2010, we will be expanding our investigations of several regions that may host economic geothermal resources. Our principals are based in Canada and the US and have successfully developed oil & gas, mining and geothermal resources.

We require a project manager with field experience in geothermal exploration to coordinate in-country staff, consultants and contractors. This individual will have broad responsibility for project planning and management, budgets, liaising with government agencies, characterizing resources with appropriate exploration methods, and preparing detailed reports to describe a number of geothermal aquifers and their relative potential.

We are now interviewing candidates for this assignment. This is a contract position based in Europe that will require in-country and international travel. The initial term of this contract will be one year with the potential of extension for a second year. We will provide an excellent compensation package to the right person including equity incentives. This is an attractive and rewarding opportunity for an entrepreneurial professional.

#### Responsibilities

- Design and manage the exploration programs
- Prepare and manage budgets
- Manage local staff, consultants and contractors
- Liaise with land owners and local and national governments
- Coordinate geological, geochemical and geophysical studies
- Develop geological and resource models
- Supervise exploratory drilling operations
- Prepare detailed assessments of target geothermal resources
- Prepare funding applications for development and technical assistance

#### Requirements

- Geology or Geophysics degree, professional certification
- Over 10 years experience in the exploration of geothermal resources
- Oil & gas or mining background will be considered
- Proven leadership and project management abilities
- Proven negotiation and communication skills
- Strong geological and geophysical interpretive skills
- Experience using computer software applicable to exploration
- A problem solver, "get it done" attitude

Location: Europe

Contact: [droberts@penderfinancial.com](mailto:droberts@penderfinancial.com)

#### **Exploration Geologist, Western U.S.**

The Exploration Geologist is responsible for overseeing the planning and execution of geothermal projects including compilation and evaluation of existing data, new file data acquisition and mapping, integration of disparate data sets, and development of geological occurrence models for geothermal resources. The exploration focus is the Western U.S., principally California, Nevada, Oregon, and Utah. This role could grow into Exploration Manager for a major geothermal development company.

Essential Functions: Candidate must have a demonstrated capability to work with a team of geoscientists to achieve corporate goals. The ability to communicate in writing and through speaking is essential. Candidate must be able to identify potential resources in known geothermal districts and to identify possible new occurrences in novel settings.

**Education, Experience, and Skills Required.**

- Bachelor's in Geology from an accredited university is a minimum requirement.
- 10-15 years experience in geothermal exploration, drilling and logging of exploration holes, and conduct of field surveys.
- The successful candidate may be required to spend up to 50% of their time in the field and must be able to withstand the rigors of extreme heat, cold, and wind for short periods of time.
- Travel within the U.S. will be required.

This is a fulltime position that will be located in Reno, NV. A benefit package is available and includes medical, dental, vision, 401(k), and long-term disability. Salary is negotiable, but dependent on experience and qualifications.

For consideration please email or fax resumes to: [kborgna@magmaenergycorp.com](mailto:kborgna@magmaenergycorp.com), 775.787.7069 (fax)

**Senior Director, Business Development, Major Geothermal Company**

The Senior Director, Business Development is responsible for overseeing the Business Development function in North America for geothermal market. This role could quickly grow into a VP role and will oversee a sales team currently consisting of 8 sales reps and will grow it by 50%.

**Essential Functions.**

- Direct and execute the business development strategy to achieve company goals and objectives.
- Identify and develop key strategic partnerships, both internally and externally.
- Responsible for negotiating PPAs and contract changes.
- Evaluate and analyze market expansion opportunities
- Build and lead a business development team that will assist the company towards completion of company goals
- Build relationships with internal departments so that all areas of the company are ready to execute when necessary.

**Education, Experience, and Skills Required.**

- Bachelor degree in engineering and MBA
- 10-15 years experience in Sales, Marketing, Business Development or Operations roles (preferably a mix of sales and operations in energy industry)
- Willingness to travel up to 60% nationally and internationally
- Ability to negotiate contracts with potential business affiliates
- Experience in the renewable energy field a strong plus
- Proven track record maintaining confidentiality and dealing with company proprietary information

Contact: Paige Carratturo, Executive Recruiter

Richard Wayne & Roberts

877-236-0899 (direct)

206-855-9746 (fax)

paige@rwr.com

<http://www.linkedin.com/in/paigecarratturo>

### **Geothermal Project Supervisor, Central American Bank for Economic Integration, Costa Rica**

The Central American Bank for Economic Integration (Banco Centroamericano de Integracion Economica, BCIE) is looking for an expert in geothermal energy to supervise a project in Costa Rica. It is called Las Pailas and it is financed through BCIE.

Contact: Ana Karina Rubi de Reyes, Oficial de Consultorias, BCIE-Tegucigalpa, Honduras

Tel. +504-240-2243, Ext. 5214

Fax. +504-240-2228

Visit the BCIE Web site, [www.bcie.org](http://www.bcie.org) - [www.cabei.org](http://www.cabei.org)



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## ***Requests for Proposals***

### **Closing This Week**

#### **International Development Grants (February 12)**

The U.S. Agency for International Development requests proposals for the Development Grants Program, which supports development activities in the following areas: Climate change adaptation, microenterprise, water and sanitation, and dairy. DGP recipients will be responsible for ensuring achievement of the program objectives in specified countries. Applications should consider Agency priorities in Food Security, Global Climate Change, and Global Engagement with new partners. \$40 million expected to be available, individual awards NTE \$2 million. Responses due 2/12/10. For more info, contact Roderick Watson at [rwatson@usaid.gov](mailto:rwatson@usaid.gov) or go to <http://www.grants.gov/search/search.do?mode=VIEW&oppId=50806>. Refer to Sol# M-OAA-GRO-EGAS-DGP-10-001. (Grants.gov 12/22/09)

#### **Tribal Energy Projects – BPA Service Territory (February 15)**

The Bonneville Power Administration requests proposals for Tribal Activities or Events. This initiative will support project areas including, but not limited to: Energy, tribal capacity building/training projects, R&D, and

Fish Accord implementation. Lead applicants must be from federally recognized tribes or tribal organizations located within the BPA service territory. Award range \$1K to \$30K. Responses due 2/15/10. For more info, contact Nathan Dexter at [nldexter@bpa.gov](mailto:nldexter@bpa.gov) or go to: [http://www.bpa.gov/corporate/About\\_BPA/Tribes/rfp.cfm](http://www.bpa.gov/corporate/About_BPA/Tribes/rfp.cfm). Refer to Sol# DKT-7.

#### **New Electric Resources – Washington (February 15)**

Puget Sound Energy seeks approx. 1,000 MW of new electricity resources from any viable power supply offering or technology that can be in operation by 2016. Confidentiality agreements due 2/15/10, proposals due 3/2/10. For more info, contact Sheryl Maynard at [sheri.maynard@pse.com](mailto:sheri.maynard@pse.com) or go to: <http://www.pse.com/ENERGYENVIRONMENT/ENERGYSUPPLY/Pages/pse2010RFP.aspx>. (Green Power Network 1/15/10)

#### **Environmental Video Contest (February 16)**

The U.S. Environmental Protection Agency is sponsoring a video contest titled "Our Planet, Our Stuff, Our Choice," that challenges filmmakers to produce short, creative videos that highlight the "Three Rs" of individual consumption. Reduce, Reuse, and Recycle. Entries should be 30 to 60 seconds in length. Award range \$500 to \$2.5K. Videos accepted through 2/16/10. For more info, go to: <http://www.epa.gov/osw/wycd/video.htm>.

#### **Clean Energy Deployment, Recovery Act, New York (February 16, 2010)**

The New York State Energy Research and Development Authority seeks proposals for Project Implementation Funding for State Energy Program American Recovery and Reinvestment Act. This RFP will support the implementation of energy conservation measures including energy efficiency, renewable energy, and clean fleet projects. \$74 million expected to be available. Responses due 10/26/09, 12/21/09, and 2/16/10. For more info, contact Ben Fox at [bf2@nyserda.org](mailto:bf2@nyserda.org) or go to: <http://www.nyserda.org/funding/1613rfp.asp>. Refer to RFP# 1613.

#### **Added This Week**

#### **Renewable Energy Credits (February 22)**

The Defense Logistic Agency, Defense Energy Support Center, seeks up to 101,062,000 kWh of renewable energy certificates for ultimate transfer to various Federal civilian customers. Responses due 2/22/10. For more info, contact Ashleigh Johnson at [Ashleigh.Johnson@dla.mil](mailto:Ashleigh.Johnson@dla.mil) or go to: [https://www.fbo.gov/?s=opportunity&mode=form&id=187f0eb8c0084f759ce482ef4877affa&tab=core&\\_cview=0](https://www.fbo.gov/?s=opportunity&mode=form&id=187f0eb8c0084f759ce482ef4877affa&tab=core&_cview=0). Refer to Sol# SP0600-10-R-0412. (FBO 1/22/10)

**Renewables, Efficiency and Water Conservation – Worldwide (TBA April 5)**

The U.S. Navy announces its intent to request proposals for Renewable Energy Technologies – Energy and Water Conservation Services for Navy Facilities. This work is intended to promote the use of renewable energy technologies, acquire energy and water conservation services, reduce energy and water consumption and/or associated utility costs, and reduce energy and water-related operations and maintenance costs, as specified in each task order issued against the contract. The work will be performed at DOD facilities globally. DOD anticipates release of the RFP on 4/5/10. For more info, contact Dyanne Van Der Kamp at [dyanne.vanderkamp@navy.mil](mailto:dyanne.vanderkamp@navy.mil) or go to:

[https://www.fbo.gov/?s=opportunity&mode=form&id=5366f2e24697c02cbe9b7eae834546a2&tab=core&\\_cviw=0](https://www.fbo.gov/?s=opportunity&mode=form&id=5366f2e24697c02cbe9b7eae834546a2&tab=core&_cviw=0). Refer to Sol# N6258310R0333. (FBO 1/22/10)

**RFP Announcements****Seeking Investor, Geothermal Project, Oregon**

“Oregon investment group performing feasibility work at SE Oregon location is seeking one additional early round investor, knowledgeable in geothermal energy exploration preferred, but not required. Project has secure land block, initial financing, and access to extensive historical database of target site. If interested, contact Peter Hall at Pueblo Valley Geothermal ([pbh@bendbroadband.com](mailto:pbh@bendbroadband.com)) for additional details”.

**Geothermal Energy Development, Department of the Navy**

Department of the Navy Naval Air Systems Command Naval Air Warfare Center Weapons Division Dept. 3a Recovery Act – The purpose of this Broad Agency Announcement (BAA) is to solicit proposals for investigations of geological properties associated with active geothermal systems within select regions of Naval Air Station (NAS) Fallon, NV; Naval Air Facility (NAF) El Centro, CA; Chocolate Mountains Gunnery Range (Chocolate Mountains), CA; and Hill Air Force Base (AFB), UT. The object is to perform geological investigations that could potentially lead to the discovery of a geothermal resource. This notice constitutes a BAA as contemplated in FAR 6.102(d)(2). A formal Request for Proposal (RFP)/Solicitation will not be issued. The Naval Air Weapons Division (NAWCWD) will not issue paper copies of this BAA. NAWCWD reserves the right to select for award, all, some, or none of the Proposals in response to this BAA. NAWCWD reserves the right to fund all, some, or none of the Proposals received under this BAA. NAWCWD provides no funding for direct reimbursement of proposal development costs. Technical and Cost Proposal (or any other material) submitted in response to this BAA will not be returned. It is the policy of NAWCWD to treat all Proposals as competition sensitive Bid and Proposal Information and to disclose their contents only for the purpose of evaluation. Awards will be to United States (U.S) companies only. All contracts resulting from this announcement are subject to the federal Acquisition Regulation and the Department of Defense Federal Acquisition Regulation Supplement. SEE ENCLOSED ATTACHMENT FOR SPECIFIC INFORMATION AND FORMATTING THAT MUST BE FOLLOWED WHEN PREPARING PROPOSALS FOR THIS CONTRACTING EFFORT. This enclosure calls out another document "Genetic

Occurrence Models for Geothermal Prospecting, N68936-04-C-0057", which is attachment 2 to this notice. Place of Performance (if applicable): Naval Air Station (NAS) Fallon, NV; Naval Air Facility (NAF) El Centro, CA; Chocolate Mountains Gunnery Range (Chocolate Mountains), CA; and Hill Air Force Base (AFB), UT.

See <http://www.tradingmarkets.com/.site/news/Stock%20News/2650824/>.

#### **Request for Bids. Pilgrim Hot Springs Property Sale Extended (February)**

The December 10, 2009 deadline for bids on Pilgrim Hot Springs near Nome, Alaska has been extended. The Catholic Bishop of Northern Alaska, owner of the property, is selling the Pilgrim Hot Springs property and is requesting bids to be submitted toward the end of February.

If you would like to be notified when the bid package is available, please send a reply by email to Tom Buzek ([tom@cbna.org](mailto:tom@cbna.org)) or George Bowder ([finance@cbna.org](mailto:finance@cbna.org)). Thank you for your interest in the Pilgrim Hot Springs property

#### **Thermal Transport, National Science Foundation (March 3, 2010)**

The National Science Foundation requests proposals for Thermal Transport Processes. This program supports engineering research aimed at gaining a basic understanding of the microscopic and macroscopic levels of thermal transport phenomena (heat and mass transfer) in energy conversion and conservation, the synthesis and processing of materials, cooling and heating of infrastructure and equipment, the interaction of industrial processes with the environment, the propulsion of air and land-based vehicles, and thermal phenomena in biological and environmental systems. Responses due 3/3/10. For more info, contact Theodore Bergman at [tbergman@nsf.gov](mailto:tbergman@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13367](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367). Refer to Sol# PD-10-1406. (Grants.gov 11/16/09)

#### **Energy for Sustainability, National Science Foundation (March 3, 2010)**

The National Science Foundation requests proposals for Energy for Sustainability. This program supports fundamental research and education in energy production, conversion, and storage and is focused on energy sources that are environmentally friendly and renewable. Sources of sustainable energy include: Sunlight, Wind/Wave, Biomass, and Geothermal. Responses due 3/3/10. For more info, contact Gregory Rorrer at [grorrer@nsf.gov](mailto:grorrer@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501026](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026). Refer to Sol# PD-10-7644. (Grants.gov 11/16/09)

#### **Environmental Engineering, National Science Foundation (March 3, 2010)**

The National Science Foundation requests proposals for Environmental Engineering. The goal of this program is to encourage transformative research which applies scientific principles to minimize solid, liquid, and gaseous discharges into land, inland and coastal waters, and air that result from human activity, and to evaluate adverse impacts of these discharges on human health and environmental quality. Responses due 3/3/10. 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=501029](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501029). Refer to Sol# PD-10-1440. (Grants.gov 11/16/09)

#### **Environmental Sustainability, National Science Foundation (March 3, 2010)**

The National Science Foundation requests proposals for Environmental Sustainability. This program supports engineering research with the goal of promoting sustainable engineered systems that support human well-being and that are also compatible with sustaining natural systems. Research in Environmental Sustainability typically considers long time horizons and may incorporate contributions from the social sciences and ethics.

Responses due 3/3/10. 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 10-7643. (Grants.gov 11/16/09)

#### **Environmental Implications of Emerging Technologies, National Science Foundation (March 3, 2010)**

The National Science Foundation requests proposals for Environmental Implications of Emerging Technologies. This program provides support to develop and test the environmental effects of new technologies. The program also supports research on the development and refinement of sensors and sensor network technologies.

Responses due 3/3/10. For more info, contact Cynthia Ekstein at [acekstein@nsf.gov](mailto:acekstein@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-10-1179. (Grants.gov 11/16/09)

#### **Technology Solutions, 2010 Tech Awards Nominations (March 31, 2010)**

Nominations are invited for the 2010 Tech Awards. This program awards individuals, organizations, and companies from around the world that are utilizing innovative technology solutions to address issues pertaining to health, education, the environment, economic development, and equality. Individual awards \$50K each.

Responses due 3/31/10. For more info, go to: <http://techawards.thetech.org/>. (Foundation Center RFP Bulletin 11/6/09)

#### **Emerging Frontiers in Research and Innovation (March 31, 2010)**

The National Science Foundation requests proposals for Emerging Frontiers in Research and Innovation.

Through this new funding opportunity, the NSF seeks proposals from interdisciplinary teams of researchers, with transformative ideas that represent an opportunity for a significant shift in fundamental engineering knowledge with a strong potential for long term impact on national needs or a grand challenge. Areas of interest include: 1) Renewable Energy Storage, and 2) Science in Energy and Environmental Design (SEED).

Engineering Sustainable Buildings. This solicitation is in coordination with the U.S. Department of Energy and the U.S. Environmental Protection Agency. \$29 million expected to be available, up to 14 awards anticipated. Letters of Intent due 10/9/09, preliminary proposals due 11/13/09, final proposals due 3/31/10. For more info,

go to: [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf09606](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf09606). Refer to Sol# 09-606. (Grants.gov 8/13/09)

#### **RFP for Smart Grid Investments, DOE, American Recovery and Reinvestment Act (March 31, 2010)**

The U.S. Department of Energy announces its intent to request proposals for the Smart Grid Investment Grant Program. Through this program, DOE seeks to stimulate the rapid deployment and integration of advanced digital technology that is needed to modernize the nation's electric delivery network for enhanced operational intelligence and connectivity. The program will support projects that promote deployment, including development of component technologies. Individual award range anticipated to be \$500K to \$5 million. The RFP will open on or about 6/17/09. Three due dates anticipated: 7/29/09, 12/2/09, and 3/31/10. For more info, contact Donna Williams at Smart-Grid.NOIComments@hq.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/39C0D96768F2083F8525759A0068F216?OpenDocument>  
<http://www07.grants.gov/search/search.do;jsessionid=9x3VJydGP2TfWHPRK9mfnphLqsWpm1TQmDJTzS6XLDp1QJKpb2SM!-1267850137?oppId=46833&flag2006=false&mode=VIEW>. Refer to Sol# DE-FOA-0000058. (Grants.gov 4/16/09)

#### **Climate Adaptation and Disaster Resilience – Indonesia (July 26)**

The U.S. Agency for International Development, Mission in Indonesia, requests proposals for Climate Adaptation and Disaster Resilience (CADRE). Indonesia is particularly vulnerable to climate change and disasters. CADRE supports projects that address climate change and disasters by efficiently, effectively and sustainably addressing the needs for disaster risk reduction and climate change adaptation together, among vulnerable populations in Indonesia. Multiple awards ranging from \$500K to \$1.5 million anticipated. Concept Papers are due 1/25/10 and 7/26/10. For more info, contact Johanna Gardjito at [aps10-005@usaid.gov](mailto:aps10-005@usaid.gov) or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=50515>. Refer to Sol# APS10-005. (Grants.gov 12/7/09)

#### **U.S. DOE Office of Science (September 30)**

The U.S. Department of Energy, Office of Science, announces its continuing interest in receiving grant proposals in areas including, but not limited to: Basic Energy Sciences, Biological and Environmental Research, and Advanced Scientific Computing. Proposals accepted through 9/30/10. For more info, including program-specific contacts, go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000179&agency=DOE>. Refer to Sol# DE-FOA-0000179. (Grants.gov 12/4/09)



## *Events*

### **GEA Events**

**Renewable Energy World North America 2010, February 23–25, 2010 (Austin, TX)**

<http://www.renewableenergyworld-events.com>

Austin Convention Center

**Visit GEA at Booth 813 in the Exhibit Hall!**

**Sessions in the GEOHERMAL TRACK will be in Room 19A**

Session: GEOHERMAL TECHNOLOGIES AND APPLICATIONS

Date: Wednesday, February 24, 2010

Time: 9:30 – 11:30 AM

Chair: Joe Lillard, Atlas Copco Mafi-Trench

Co-chair: Leslie Blodgett, Geothermal Energy Association

Session description: Geothermal power is one of the largest resources of baseload alternative energy which is expanding its share in the renewable energy market. This session offers presentations and discussions on the current and future technologies to bring more of this reliable, clean and climate-friendly energy on-line.

Oil Production Waste Stream, a Source of Electrical Power

Thomas C. Anderson, Lyle A. Johnson and Everett D. Walker Rocky Mountain Oilfield Testing Center (DOE)

Energy Recovery from Low Temperature Heat Sources, Challenges and Opportunities

Reza Agahi and Behrooz Ershaghi, Atlas Copco Mafi-Trench; Dr. Claudio Spadacini, EXERGY S.r.l.

Effect of Number of Flashing Units on Thermal and Exergy Efficiencies in Flash Geothermal Power Plants

Shahin Amiri and Masoud Ziabasharhagh, McGill University, Shayan Amiri, Khaje Nashir University of Technology

Selection, Installation and Operation of Multiple 15 MW Turboexpanders in a Binary Cycle Geothermal Power Plant

Joseph Lillard and Hasan Adam, Atlas Copco Mafi-Trench Co.; Brad Platt, Enel North America Inc.; (invited)

### A Feast of Cycles – Different Plants for Different Resources

Kevin Wallace and Marshall Ralph, POWER Engineers Inc.; William harvey, Reykjavik University

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Session: GEOHERMAL RESOURCE DEVELOPMENT AND INVESTMENT – PANEL DISCUSSION

Date: Wednesday, February 24, 2010

Time: 1:30 – 3:30 PM

Chair: Leslie Blodgett, Geothermal Energy Association

Co-chair: Karl Gawell, Geothermal Energy Association

Session description: Panelists will look at the geothermal market from the perspective of investors and development. Challenges will be discussed as well as opportunities.

- Lou Capuano, ThermaSource, "The Geothermal Market from the Perspective of Investors and Development – Getting Started: Exploration and Development – Methodology, Risks, Costs and Opportunities"
  - Halley Dickey, TAS, "How to Finance Geothermal Development"
  - Dennis Gilles, Calpine
  - Dr. Frank Monastero, Magma Energy, "Resource Challenges and Opportunities"
  - Marty Olson, SNC-Lavalin, "Models for Power Plant Finance"
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Session: GEOHERMAL MARKETS, TRENDS AND POLICIES – PANEL DISCUSSION

Date: Thursday, February 25, 2010

Time: 8:00 – 9:30 AM

Chair: Karl Gawell, Geothermal Energy Association

Co-chair: Joe Lillard, Atlas Copco Mafi-Trench

Session description: Key players in the geothermal industry will approach the markets of geothermal energy in the U.S., will discuss trends and what they mean for the future of this increasingly significant baseload energy source, and will explain how support of geothermal energy in the nation's policy efforts will lead to a cleaner, more self-reliant nation.

- Karl Gawell, Geothermal Energy Association "Geothermal power industry today and tomorrow, an overview and key issues"
- Dan Fleischmann, Ormat - 15 minutes - "Developing Geothermal Resources in the Western U.S.: Addressing critical issues affecting the development process for geothermal projects"
- John A. McKinsey, Stoel Rives
- Thomas King, U.S. Renewables Group - Panel/Audience Discussion

**CGEC California Geothermal Energy Summit, May 12, 2010 (Davis, CA)**

<http://cgec.ucdavis.edu/>

UC Davis Campus

**California Geothermal Forum**

Hosted by the California Geothermal Energy Collaborative

May 12, 2010

8 am – 5 pm

Mondavi Center, UC Davis, Davis, California

The California Geothermal Energy Collaborative will be holding the 2010 California Geothermal Forum (formerly called the Summit) on May 12th as part of the UC Davis Energy Institute's UC Energy Week 2010.

The California Geothermal Forum will feature panels of recognized experts discussing:

- The current status of new transmission infrastructure
- The evolving California energy and environmental landscape - updates on draft California Air Resources Board (CARB) efforts, RPS and AB32/Green House Gas goals and what they mean for geothermal energy
- Community-scale geothermal efforts - distributed generation, hybrid applications and incentives

Over the last two years numerous changes have affected how California views and uses energy. Attendees will have an opportunity to hear about the current direction of technology, regulations and incentives that affect the use of geothermal energy. Leaders from the regulatory, industrial, utility, R&D and county/city/community arenas will discuss their perspectives regarding this dynamic and challenging time for the use of geothermal energy in the state.

A Tuesday evening reception from 5–7 p.m. will be a free event at the UC Davis Conference Center. It will provide an informal venue for participants from all areas of renewable energy to meet and discuss topics of mutual interest.

The program and registration forms will be available at a later date at <http://cgec.ucdavis.edu/>

**GEA Geothermal Symposium, May 21, 2010 (Washington, DC)**

**GEA Geothermal Energy Workshop, July 22, 2010 (Las Vegas, NV)**

**GEA Trade Show and GRC Annual Meeting, October 24–27 (Sacramento, CA)**

### **Why Should You Attend GEA Events?**

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

To keep track of new events and changes to this calendar go to: [www.geo-energy.org](http://www.geo-energy.org)

### **Other Events**

#### **Imperial Valley Renewable Energy Summit & Expo, March 16–18 (East Imperial Valley, CA)**

Geothermal. Wind. Solar. Biomass. 40,000 megawatts of opportunity. It's all here! With an abundance of renewable energy potential, the Imperial Valley will be the source of much of California's green energy. The 2010 Imperial Valley Renewable Energy Summit & Expo will feature industry experts covering a range of topics, a business exposition, networking reception and banquet. For more information, please visit [www.ivedc.com](http://www.ivedc.com) or call (760)353-8332.

Imperial Valley Renewable Energy Summit & Expo, "Growing California's Green Economy"  
March 16–18, 2010, Quechan Casino Resort, East Imperial Valley, CA

#### **Oregon Geothermal Working Group Meeting, March 23 (Portland, OR)**

Please save the date for the next Oregon Geothermal Working Group Meeting.

Date: Tuesday, March 23rd

Time: 8:30 AM - 2:30 PM, includes a lunch break on your own from 11:30 AM - 12:30 PM

Location: Portland State Office Building, 800 NE Oregon St, Portland

Agenda Focus: American Recovery and Reinvestment Act (ARRA) Projects in Oregon

More details and an agenda will be published closer to the date. If you would like to register early for the meeting, please e-mail [Linda.Ross@state.or.us](mailto:Linda.Ross@state.or.us) with your name and contact information.

### **Renewables Rendezvous, Power Engineers, March 23–24 (Boise, ID)**

1st Annual Renewables Rendezvous, 23–24 March 2010, Boise, Idaho

*From Power Engineers:* Renewable energy is a hot topic right now, but we've been deep into it since 1987. If you are interested in renewable energy, join us at our Renewables Rendezvous this March for a two-day, technical conference. Whether it's resource, permitting, engineering or interconnection issues, do not miss your chance to learn from industry experts!

For conference topics, registration, and more go to [www.powereng.com/news/events/event.aspx?id=549](http://www.powereng.com/news/events/event.aspx?id=549).

### **Clean Energy and Business Development Mission, U.S. Department of Commerce, May 23–25 (Indonesia)**

Secretary of Commerce Gary Locke will lead a business development trade mission to Indonesia in May focused on clean energy deployment. Interested companies and trade associations can apply at

[http://www.trade.gov/cleanenergymission/tg\\_main\\_002483.asp](http://www.trade.gov/cleanenergymission/tg_main_002483.asp). The mission should be a great opportunity for the U.S. geothermal industry to further deploy technologies in Indonesia. Contact Ryan Mulholland at [Ryan.Mulholland@trade.gov](mailto:Ryan.Mulholland@trade.gov) or (202) 482-4693 or email [CleanEnergyMission@doc.gov](mailto:CleanEnergyMission@doc.gov).

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## **Geothermal Energy Weekly**

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

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