



**This Week  
December 1, 2010**

**National News..... 3**

Bipartisan Proposal to Improve Geothermal Leasing Introduced ..... 3

Treasury Grant Program: Will a Lame-Duck Package Include Extension? ..... 4

Lawmakers Working To Restore Geothermal Revenues to Counties ..... 4

NationalJournal.com asks: Can Tax Incentives Save Renewable Energy? ..... 5

**Company News..... 6**

Magma Energy: Company May Sell Portion of Stake in HS Orka ..... 6

Ormat Technologies: Southern Nevada's First Non-Solar Renewable Project Completed..... 6

Ram Power Announces 2010 Third Quarter Results..... 6

**Renewable Energy and Climate Change..... 7**

DOE Announces \$21m in Technical Assistance for Energy Reduction in Commercial Buildings ..... 7

DOE Hosts First Energy Efficiency and Renewables Advisory Committee Meeting ..... 7

Cancun Climate Talks: U.S. Scales Down Attendance and Expectations..... 7

Studies Explore Fossil Fuel Issues: Threats to the Industry, Effects on CO<sub>2</sub> Cuts ..... 7

Seismic Analytical Techniques Critical in Geothermal Exploration and Monitoring ..... 8

**State News ..... 8**

California: Power Line Construction Faces Further Challenges..... 8

**International News ..... 8**

Australia: Queensland Drilling Test Program Underway ..... 8

Canada: Geothermal Industry Wants Equal Playing Field with Oil and Gas ..... 8

China: Officials Consider Cap and Trade Program ..... 8

India: TransAct Energy Provides Business Update ..... 9

Italy: Enel Opens Geothermal Plant at Chiusdino ..... 9

Japan: Fossil Fuel Tax Considered ..... 9

Kenya: Geothermal Drilling Fund Considered, Nuclear Plant Site Sought..... 9

Mexico: UN Climate Summit to Meet in Cancun..... 9

Philippines: Chevron-APC Agreement Signed, Negros Plant Down for Technical Studies ..... 10

Rwanda: Studies Show Geothermal Potential..... 10

**Geothermal Heat Pumps and Direct Use ..... 10**

Courthouse in Fayette, Iowa to Install Geothermal System ..... 10

Hybrid Solar-Geothermal System Planned for F.W. Webb Facility ..... 10

**Notices ..... 11**

Closing This Week ..... 11

BLM Releasing CO Study of Geothermal Energy Impact – Comments Open (December 4)..... 11  
 New This Week ..... 11  
     Renewable Energy World Now Accepting Awards Nominations (December 31) ..... 11  
     GEA Executive Director Plugs Geothermal on Platts TV Segment ..... 11  
     South Coast Air Basin Electricity Needs Assessment and Permitting Announces List Serve ..... 11  
 Current Notices ..... 12  
     DOE Seeks Peer Review Comments on Geothermal Life-Cycle Analysis ..... 12  
     DOE Seeks Peer Review Comments on Geothermal Water Use..... 12  
     Report on Assessing America's Renewable Energy Future Available for Download ..... 12  
     Air Resources Board Public Hearing on Amendments to the Regulation for Mandatory Reporting of  
     Greenhouse Gas Emissions (December 16) ..... 12

**Employment..... 13**

New This Week ..... 13  
     Landman, Nevada Geothermal Power ..... 13  
     Staff Geologist/GIS Technician, Nevada Geothermal Power ..... 14  
 Employment Opportunities..... 15  
     NREL Seeking Applicants for Geothermal Analysis Group ..... 15  
     Geothermal Faculty, Tenure Track, Dedman College, SMU (October 1 or until filled)..... 15  
     Senior Level Assistant Site Manager, Operations and Maintenance..... 15  
     Senior Principal Geothermal Geologist – Brisbane, Australia..... 15  
     Vice President Geology, Western US ..... 15  
     Geothermal Openings, NREL, Boulder, CO..... 15  
     Drilling Manager, NV ..... 15  
     Geophysicist, Calpine, The Geysers, CA ..... 16  
     Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID ..... 16  
     Project Manager ..... 16  
     Development Manager ..... 16  
     Project Manager Geothermal Exploration, Europe ..... 16

**Requests for Proposals..... 16**

Closing This Week ..... 16  
     Energy Production with Innovative Methods of Geothermal Heat Recovery, DOE (December 7) ..... 16  
     Feasibility Study for Waste-To-Energy Plant - Columbia (December 7)..... 17  
     Renewable Energy Microfinance and Microenterprise (December 8) ..... 17  
 New This Week..... 18  
     Short Term Renewables – Nevada (December 15)..... 18  
     Research for Utility-Scale Renewable Energy – California (December 21)..... 18  
     Water & Wastewater TA (December 31)..... 18  
     Assessment of Greenhouse Gases and Climate Impacts (January 7) ..... 18  
     Switzer Environmental Fellowships (January 15) ..... 18  
     WaterSMART - California (January 31) ..... 18  
     Sensors and Sensing Systems (February 15) ..... 19  
     Control Systems, NSF (February 15)..... 19  
     Manufacturing Enterprise Systems (February 15) ..... 19  
     Materials and Surface Engineering (February 15) ..... 19  
     Structural Materials and Mechanics (February 15) ..... 19  
     Mechanics of Materials (February 15)..... 19  
     Materials Processing and Manufacturing (February 15) ..... 20  
     Manufacturing and Construction Machines and Equipment (February 15)..... 20  
     International Young Eco-Hero Awards (February 28)..... 20  
     U.S. DOE Office of Science (September 30, 2011) ..... 20  
     U.S. Navy Energy Conservation Projects (October 31, 2012) ..... 20  
 Proposal Announcements..... 20  
     Coordination of the Colorado Geothermal Working Group ..... 20  
     Alaska Fairbanks North Star Borough Offers \$1m Matched-Funds Grant..... 21

USTDA-Sponsored Indonesia Geothermal Power Training Program Is Offering Business Development Opportunities for U.S. Companies..... 21

Partner Sought for Hot Oil and Gas Wells, Mississippi..... 21

Call for Geothermal Exploration Proposals, Neuquén, Argentina..... 21

Power Forecast, Haiti, TDA..... 22

Manufacturing and Construction Machines and Equipment ..... 22

Climate Change and Health, HHS..... 22

Renewable Energy Proposals, NV Energy (December 15) ..... 22

Industry/University Cooperative Research Centers (February 2, 2011) ..... 23

**Events..... 23**

Happening This Week..... 23

    Geothermal Investment Forum and Networking Event, CanGEA, Calgary, AB (December 2) ..... 23

    GeoPower Europe, European Geothermal Energy Council, Paris, France (December 8–9)..... 23

    Air Force Renewable Energy Industry Day, Irving TX (December 8) ..... 23

New This Week..... 23

    Geothermal Panel at Power-Gen International (December 15)..... 23

    Geothermal Energy Finance Forum 2011, NYC, NY (February 9, 2011) ..... 24

GEA Events..... 24

    GEA Calendar of Events for 2011 ..... 24

    Why Should You Attend GEA Events? ..... 25

Other Events ..... 25



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

**National News**



**Bipartisan Proposal to Improve Geothermal Leasing Introduced**

Senators Ron Wyden (D-Oregon), James Risch (R-Idaho), Jeff Merkley (D-Oregon), and Mike Crapo (R-Idaho) are introducing the Geothermal Production Expansion Act of 2010 to expand the future production of geothermal energy through improving the leasing and development process, showing a nice display of bipartisanship across state lines. The bill amends the Geothermal Steam Act to allow the Interior Department to issue geothermal leases for adjacent lands on a noncompetitive basis, based on fair-market value, and has a companion sponsored by Representative Jay Inslee in the House of Representatives.

“This [bill] would allow a geothermal developer to expand a successful geothermal lease without being forced into a bidding war with speculators or uncooperative competitors who might threaten project expansion or even prevent the project from reaching commercial scale,” Wyden said in a statement.

Daniel Kunz, President and Chief Executive Officer of U.S. Geothermal Inc. provided the following support: “We are grateful to Senators Wyden, Risch, Crapo and Merkley for introducing this important bipartisan legislation which, when passed into law, will provide the geothermal industry with the necessary tools to protect the long term viability and increase sustainable development of geothermal reservoirs after they are discovered.”

In February, GEA Board member Doug Glaspey provided testimony for H.R. 3709 to the House Subcommittee on Energy and Mineral Resources. He said:

“The Geothermal Energy Association strongly supports H.R. Bill 3709, the Geothermal Production Expansion Act. Very simply, it allows a developer that has invested capital and taken exploration risk that results in the discovery of a geothermal resource, the ability to assemble the whole resource so a power plant can be financed and built without exposing the project to the high cost of speculation and delays. We believe H.R. 3709 is an important policy adjustment that should be available to the geothermal

industry and will accelerate the development of our geothermal resources, create new jobs, and provide additional revenue for the United States treasury."

Glaspey outlined the following benefits:

- Developers that have invested substantial capital and made high risk investments would be allowed to secure a discovery.
- Development of the geothermal resource would accelerate the creation of drilling, construction, supply and operating jobs.
- The financing capabilities of geothermal projects would increase.
- All non-competitive leaseholders would be required to pay a market average "bonus" fee and thereby increase the short term fees paid to the federal government.
- Increased development will provide higher revenue to the federal government with the payment of production royalties over decades.

"The hope is that with the strong senate leadership this proposal has behind it, Congress will be able to move on this legislation before it adjourns," said GEA Executive Director Karl Gawell.

### **Treasury Grant Program: Will a Lame-Duck Package Include Extension?**

This week, Senator Maria Cantwell (D-WA) and 24 senators [sent a bipartisan letter to Senate leaders](#) urging the inclusion of a two-year extension on the Treasury Grant Program that has allowed clean energy projects to continue or begin development and has proven effective in creating jobs. "We believe a two-year extension of the TGP is critical," wrote the Senators. "Absent an extension of the TGP, the anticipated total financing available for renewables is expected to decrease by 56 percent in 2011."

The Senators defended the program:

"Prior to the economic meltdown, clean energy project developers relied on 'tax equity partnerships' with investors to take advantage of clean energy tax incentives. In 2008, the economic meltdown froze the \$8 billion tax equity market, jeopardizing billions of dollars in clean energy investment. The TGP [Treasury Grant Program] proved an effective replacement for these partnerships, supporting around \$18.2 billion in clean energy investment to build 8,600 megawatts of renewable energy generation through October 25, 2010,"

The Senate is expected to take action on tax legislation in the lame duck session, but whether it will include renewable tax provisions such as this is unclear. Today, the House passed stop-gap legislation to keep the government running until December 18, signaling that the leadership expects the Senate to stay in session at least to that date.

"We are also hoping the Senate will include in any tax package an extension of the 30% Investment Tax Credit for new geothermal facilities to 2017, essentially the same treatment given solar projects" noted GEA's Director. "This is critical for keeping up the momentum in this industry, given the long lead-times needed for geothermal power plant development."

### **Lawmakers Working To Restore Geothermal Revenues to Counties**

With a government funding resolution at the top of the priority list for lawmakers, counties with geothermal operations still await their allotted revenues. Under current funding legislation, the Department of the Interior will not pay geothermal revenues to local counties for their share of geothermal royalties established under the Energy Policy Act of 2005. The counties' 25% share was taken out earlier this year.

Nevada Senator Harry Reid [expressed dismay and renewed his commitment](#) to restoring the revenues:

"Rural Nevada needs geothermal revenue in these difficult economic times. These payments help support the counties' essential services and build support for the development of renewable resources and

promote economic growth across our state. Earlier this year, I fought to restore counties' revenues and I am committed to ensuring that they continue to receive their fair share. I am working now to ensure that the final appropriations bill for this fiscal year clearly provides that Nevada counties will get their full payments."

In a letter to colleagues, Rep. Dean Heller added his support: "The repeal of geothermal revenue sharing is yet another problem for our public lands communities who bear the unique burdens of high federal land ownership. During these difficult economic times, the addition of this language, which has already been approved once by the House, is vital."

### **NationalJournal.com asks: Can Tax Incentives Save Renewable Energy?**

NationalJournal.com writer Amy Harder [posed this question](#): "Can tax credits, grant programs, and other federal initiatives sustain renewable energy development absent major legislation like a renewable electricity standard? . . . [or] Should Congress focus instead on promoting low-pollution forms of more traditional energy sources, such as natural gas, nuclear power, and clean coal technology?"

GEA's Karl Gawell provided the following reply, "Investing to Ensure U.S. Leadership":

The geothermal, wind and solar industries will still be here after the lame duck session is completed, but what Congress does, or does not do, may answer several questions, in particular: How fast will renewable energy grow? How much of that growth will be in the United States?

Governmental policies have intervened in energy markets for decades and looking back to tally up how much subsidy one technology or another has received only underscores that there has not been a free market in energy for many decades. But, let's not kid ourselves, renewable energy has not been the big winner in the subsidy contest.

With support from federal and state policies over the past few years, we have seen a period of sustained growth in renewable energy in the United States. Renewable technologies can provide substantial power and energy for the future with continued support. While renewable energy's contribution may be comparatively small today, the underlying energy resources are virtually u...

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With support from federal and state policies over the past few years, we have seen a period of sustained growth in renewable energy in the United States. Renewable technologies can provide substantial power and energy for the future with continued support. While renewable energy's contribution may be comparatively small today, the underlying energy resources are virtually unlimited, low-polluting, have low fuel costs and are widely available across the nation and the world.

Renewable technologies are also capital intensive, which means they often make economic sense only over time because they trade-off higher up-front capital costs for lower life-time fuel costs. If they cost more up front why would an investor put their money into renewable energy? Some may share the vision that they are the energy technologies of the future, but there is no question that it is also because government incentives make them better investments today.

If America wishes to be the leader in new energy technology, we need to keep building the geothermal, wind and solar projects that are cutting-edge technology. If we wish to attract global investment in building

new renewable energy industries, we need to be building these new projects in the United States. Extending federal tax incentives, and the tax credit reimbursement, are simply critical to sustaining growth particularly in this slow economy where investors are sitting on the sidelines and taking few, if any, risks.

Whether the problem is America's dependence on foreign sources of energy or its continued pollution of the global atmosphere, renewable technologies are an important part of the answer. Supporting the growth of these industries will help spur economic growth, address our energy and environmental problems, and position US renewable industries for leadership in some of the world's fastest growing markets.

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## **Company News**



### **Magma Energy: Company May Sell Portion of Stake in HS Orka**

Magma Energy Corp [may sell up to 25% of its part in HS Orka](#) to help pay for the recent acquisition. "The principle we're going in on in this discussion is to divest a minority stake, meaning 10 or 20 or 25 percent," Chief Executive Ross Beaty said. "Our principle will be that we seek neither to make a profit on a transaction nor a loss."

### **Ormat Technologies: Southern Nevada's First Non-Solar Renewable Project Completed**

[Press Release, November 19](#) — Ormat Technologies, Inc. and Kern River Gas Transmission Company today dedicated southern Nevada's first non-solar renewable energy project, the Goodsprings Energy Recovery Station. Located 35 miles south of Las Vegas, the Goodsprings Energy Recovery Station is the first renewable energy project owned by NV Energy. The project is rated at 7.5 megawatts, enough to supply approximately 4,500 homes in southern Nevada. Goodsprings Energy Recovery Station was built in partnership with Kern River Gas Transmission Company, a wholly-owned subsidiary of MidAmerican Energy Holdings Company, and by Ormat Nevada Inc., a wholly-owned subsidiary of Ormat Technologies Inc.

"Our Goodsprings project provides a reliable and consistent renewable energy resource for our customers in southern Nevada," said NV Energy President and Chief Executive Officer Michael Yackira. "We are proud of the innovative nature of this project as well as our company's growing presence in the renewable energy arena. Additionally, we appreciate our partnership with Kern River and the great work Ormat has done in developing this project."

### **Ram Power Announces 2010 Third Quarter Results**

[Press Release, November 15](#) – Ram Power, Corp. (TSX: RPG) ("Ram Power" or the "Company"), today reported its financial and operating results for the third quarter ended September 30, 2010. This earnings release should be read in conjunction with Ram Power's MD&A and financial statements, which are available on the Company's website at [www.rampower.com](http://www.rampower.com) and have been posted on SEDAR at [www.sedar.com](http://www.sedar.com).

Concurrent with today's release, Hezy Ram, CEO of Ram Power, said, "The third quarter 2010 has been another rewarding and growth oriented quarter. Early in the quarter, we completed the Mayacamas Energy transaction thereby ensuring the development of our Geysers project in Northern California. Additionally, in the later part of the quarter, we completed the Sierra Geothermal Power, Inc. acquisition which adds additional exploration properties to our existing geothermal projects in Clayton Valley, Nevada. Finally, subsequent to the quarter end, the closing of the San Jacinto-Tizate Phase II Credit Facility ensures the build out of the 72 MW facility in Nicaragua, supplying clean, renewable energy to the region for years to come. Further, the Company enhanced our already experienced management team with the additions of John O'Neill as Vice President and Chief Financial Officer and Gordon Alter as Vice President and General Counsel. We continue to be excited about the future of Ram Power."



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## **Renewable Energy and Climate Change**

### **DOE Announces \$21m in Technical Assistance for Energy Reduction in Commercial Buildings**

[Press Release, November 30](#) — During a live online chat at the White House earlier today, U.S. Energy Secretary Steven Chu announced that 24 projects are receiving a total of \$21 million in technical assistance to dramatically reduce the energy used in their commercial buildings. This initiative, supported with funding from the American Recovery and Reinvestment Act, will connect commercial building owners and operators with multidisciplinary teams including researchers at DOE's National Laboratories and private sector building experts. The teams will design, construct, measure, and test low-energy building plans, and will help accelerate the deployment of cost-effective energy-saving measures in commercial buildings across the United States.

"These Recovery Act projects are bringing together experts from our national laboratories and the private sector to help businesses and organizations reduce the energy they use in their facilities, saving them money on their energy bills and making them more competitive economically," said Secretary Chu. "This initiative will also demonstrate to other commercial building operators that cost-effective, energy-efficient technologies exist today that will help lower the operating and energy costs of their buildings."

### **DOE Hosts First Energy Efficiency and Renewables Advisory Committee Meeting**

[Press Release, December 1](#) — United States Secretary of Energy Steven Chu welcomed 20 members of the Efficiency and Renewables Advisory Committee (ERAC) to U.S. Department of Energy headquarters yesterday for the group's first meeting. Formed to provide formal review and input on the direction of DOE's clean energy portfolio of projects and initiatives to the Secretary of Energy, ERAC includes clean energy leaders from a variety of fields, including: academia, local government, venture capital, project developers, and utilities. Relying on their experience in energy, environment, and technology development, the group will help the Department identify and address challenges to clean energy deployment and market acceptance, including focusing on research and development projects, project finance approaches, and long-term strategies. The Committee also welcomed its newest member: Mayor of the City of Philadelphia Michael Nutter.

### **Cancun Climate Talks: U.S. Scales Down Attendance and Expectations**

The U.N. Framework Convention on Climate Change talks opened this week in Cancun Mexico and will go through December 10. With Congress focused on finance and lame-duck possibilities, little attention has been given to the talks, and Obama administration negotiators have little to offer in terms of any agreement. With the Kyoto Protocol set to run out in 2012, some countries had hoped to reach an agreement on cutting emissions. Negotiators [may be turning to smaller items](#) like greater transparency.

Rep. Henry Waxman (D-Calif.), who co-authored and championed cap-and-trade legislation last year, attributed [the lack of strong a strong U.S. presence](#) to the failure of the Senate to pass a climate bill this year. "They've got to be somewhat dispirited," Waxman said of U.S. delegates.

### **Studies Explore Fossil Fuel Issues: Threats to the Industry, Effects on CO<sub>2</sub> Cuts**

A [survey by the firm BDO USA](#) showed 54% of oil and gas company representatives named "legislative changes" as the biggest threat to their industry in 2011. Another 41% said "potential moves by lawmakers" was the biggest factor. One particular concern of reps came over increased difficulties in the permitting process for deepwater drilling in the Gulf of Mexico.

Nature Geoscience [published a study this week on emissions reductions rates](#), naming coal as a factor that lessened the effect of reductions that took place during the economic recession. Between 2008 and 2009, carbon dioxide emissions fell less than one-half the authors' expectations, at 1.3% (compared to their 2.8% projection).

## Seismic Analytical Techniques Critical in Geothermal Exploration and Monitoring

Scientists are highlighting the [growing importance of understanding seismic signals in the geothermal industry](#). Incorporating new seismic analytical technologies drops the cost of exploration while increasing data on the resource for drillers. Examples of technology advancements in 3-dimensional imaging of subsurface properties include Shear Wave Splitting, which delineates fissure densities direction and distribution, and Seismic Wave Attenuation, which models active geothermal regions, impervious layers and more. Beyond exploration, seismic processing is being applied to other aspects of enhanced geothermal systems.

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## **State News**

### **California: Power Line Construction Faces Further Challenges**

A [New York Times article follows the 7-year struggle](#) of San Diego Gas & Electric to build the Sunrise Powerlink transmission line running from Los Angeles to the Mexican border. The proposed line won approval from the Forest Service, the BLM and the state following an 11,000-page environmental impact statement, but opposition continues from neighbors and wilderness preservationists, who have filed lawsuits. Complaints include change to the face of the land as well as the fact that this line, touted for its potential in connecting the largest untapped renewable reserves in California to the grid, could also transmit energy produced from fossil fuels.



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## **International News**

### **Australia: Queensland Drilling Test Program Underway**

A new [geothermal drilling program is underway](#) by Gerald Spaulding Drillers on behalf of the Geological Survey of Queensland and the Office of Clean Energy at Fraser Coast. A probe will be lowered into the 320-meter drilled hole, designed to test temperatures at 1-m intervals. The data will be used to recognize the formations of potential geothermal hot rocks that assist in power generation. The government has named 12 locations for the testing process, to be completed by the middle of 2011 or early 2012.



### **Canada: Geothermal Industry Wants Equal Playing Field with Oil and Gas**

The [absence of government support for geothermal energy](#) has led the country's companies to develop the resource elsewhere. "The provincial government processes copious amounts of permits for oil, gas and mining development, while they only gave out four permits for geothermal in 2010 and that was after intense influencing from CanGEA," said CanGEA chair and founder Alison Thompson. "These were also the first permits issued since 2004."

There are other differences between oil and gas policy and that of geothermal. Companies doing oil or gas exploration are able to write-off both dry holes and steam boilers for bitumen extraction whereas geothermal companies are not. "Geothermal energy was never contemplated when they wrote these rules," said Thompson. "We'd like an equal playing field."

### **China: Officials Consider Cap and Trade Program**

China has said it [may set emissions quotas](#), with a certain portion able to be traded. Officials are now in the study stages and are considering other options such as a carbon tax. The European Union, which manages the world's biggest cap-and-trade system, sent a mission to study a pilot program to China in July. Wang Fan, an analyst at Ping An Securities Ltd. said: "The idea of a carbon tax seems much more unlikely to me, as China is a developing nation and I don't think there's much support for this idea."

## India: TransAct Energy Provides Business Update

[Press Release, San Antonio, TX, November 19](#) — TransAct Energy Corp. today updated its status with respect to geothermal, solar and fuel cell technologies it has secured for the Indian market. For the past year the company has been developing relationships and sales channels in India to facilitate future business.

To date our business development team has had dialogue with current or future license holders for solar farms in India. We are now quoting to supply 90 w solar modules for several projects with the view to pre-sell the first year's production of the company's proposed solar manufacturing facility in India.

Our fuel cell technology, Altery Systems "Freedom Power(TM)" is being introduced to the major players in the telecom tower sector in India. This technology was designed to provide backup/uninterrupted power for the telecom industry and is a perfect fit for the Indian market. The fuel cells use hydrogen to produce electricity and have water as a byproduct.

To address the reliable supply of hydrogen, particularly outside regular delivery areas, portable hydrogen generators can be incorporated. We are working to secure the right hydrogen technology for the "Freedom Power(TM)" fuel cell so we can provide a standalone base power source. This will have far reaching applications in the clean energy sector throughout India.

The high temperature geothermal opportunities in India are more far term in their scope. Discussions to date have focused around existing policy and meetings are pending with the Ministry of Energy. Low temperature geothermal opportunities abound in India as the technology's awareness increases. We have been invited to quote several projects.

## Italy: Enel Opens Geothermal Plant at Chiusdino

A [new 20-MW geothermal facility on line at Chiusdino](#) will generate over 145 million kWh and was completed in less than a year. A companion plant, Radiocondoli 2 began operations in early November.

"With the start-up of Chiusdino and Radicondoli 2, our geothermal capacity in Tuscany rises to 728 MW, enough to meet the needs of 3 million households, all while protecting the environment", said Francesco Starace, CEO of Enel Green Power. "We are very proud of this achievement, which confirms the global leadership of Italy, with Enel Green Power, in all aspects, technological and otherwise, of this renewable energy sector."

## Japan: Fossil Fuel Tax Considered

An initial [tax on users of fossil fuels has been proposed](#) by Japan's ruling Democratic party and will be considered by the government's tax panel in mid-December. The tax would increase government funding for clean energy to 250 million yen (\$3 billion). No action is expected until after the December UN climate change summit in Cancun. A more comprehensive climate bill could be up for discussion next year.

## Kenya: Geothermal Drilling Fund Considered, Nuclear Plant Site Sought

Kenya [may create a fund to underwrite about 20%](#) of the initial cost of geothermal drilling. With six electricity generation projects in Kenya delayed due to lack of funding, the goal is to attract more investment to the country's industry.

With the growing need to diversify its energy portfolio to meet demand, the country is also [seeking sites along the coast for a nuclear power plant](#) and has formed a committee to identify sites.

## Mexico: UN Climate Summit to Meet in Cancun

Set to [host the UN climate summit in Cancun](#), Mexico has served as a mediator between rich and poor nations. Lawmakers are considering a new law to protect the climate; in recent years it has committed to a reduction in greenhouse gas emissions by 30% over a decade.

## Philippines: Chevron-APC Agreement Signed, Negros Plant Down for Technical Studies

In Kalinga, Chevron Kalinga and [APC Group Aragorn Power and Energy Corp have signed an agreement](#) for a 100-MW \$300 million geothermal power project. The project could be the first major international investment in the country under the Renewable Energy Act of 2008. Aragorn's geothermal service contract from the Energy Department covers 26,000 hectares.

In Negros, Energy Development Corp. [temporarily shut down its 49-MW Northern Negros](#) geothermal power plant. The company will conduct nine months of technical studies with the goal of increasing the plant's capacity. The Lopez-led firm delayed preventive maintenance in June 2010 due to the tight power supply in the Visayas. "Now that several new power plants are coming in and some units of the geothermal plants of Green Core Geothermal have been rehabilitated, it is also a good time for us to conduct the maintenance work," said EDC senior vice president for technical services Manuel Ogena. The planned studies will cost about P6 million.

## Rwanda: Studies Show Geothermal Potential

Scientists in Rwanda say it could have a [geothermal power capacity of 300 MW](#), much needed in a country with only 69 MW of available power. "From surface studies, we believe Rwanda has big potential for the development of geothermal power," said geophysicist Stephen Onacha, a consultant with the Rwandan Ministry of Infrastructure. "We're excited, because geothermal has many benefits in terms of operating costs and the environment."

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## ***Geothermal Heat Pumps and Direct Use***



### **Courthouse in Fayette, Iowa to Install Geothermal System**

The Fayette County Courthouse is one of two cities chosen for the Iowa Green Streets pilot program and will be [host to a geothermal heating and cooling system](#), with 18 local companies having access to the system. The project has received a variety of funding including a \$1 million DOE contribution. A total 126 wells will be drilled to a depth of 350 feet. The project is scheduled for completion by July 2011.

### **Hybrid Solar-Geothermal System Planned for F.W. Webb Facility**

A new branch facility for F.W. Webb will [include a closed-loop hybrid solar-geothermal heating and cooling system](#). JM Coull, who is building the facility, expects the system to save energy and reduce operating costs up to \$60,000 annually. The project will include twelve 500-foot boreholes and 50 roof-mounted thermal solar panels.

"We're particularly enthusiastic about having the hybrid solar-geothermal system in our new facility. Webb is committed to helping our customers explore options for alternative energy, and this just makes it easier to demonstrate what these systems can do," said Phil Vultaggio, general manager of the Waterford facility.



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



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## **Notices**

### **Closing This Week**

#### **BLM Releasing CO Study of Geothermal Energy Impact – Comments Open (December 4)**

The U.S. Bureau of Land Management will release its study of the environmental impact of geothermal energy development on two blocks of land in southeastern Gunnison County in western Colorado. The study to be released Thursday examines the effects of tapping into geothermal energy on 4,586 acres of BLM land and 400 acres of private land, along with 3,765 acres of forest land. Both blocks are near Tomichi Dome and the Waunita Hot Springs. The BLM will accept public comment until Dec. 4.

The BLM is offering the first geothermal lease on federal land in Colorado Nov. 10. The proposed lease is on 799 acres near Mount Princeton Hot Spring Resort in Chaffee (CHAY'-fee) County. Geothermal plants tap into hot water beneath the surface to turn turbines to generate electricity.

### **New This Week**

#### **Renewable Energy World Now Accepting Awards Nominations (December 31)**

Nominations can now be submitted in categories ranging from "Project of the Year" to "Innovation" to "Leadership." Nominations will remain open until December 31, after which the 16 editors of the Renewable Energy World Media Network will select the winners in each category. In addition the 5 finalists in each category will be released in January so our readers -- 25,000 votes last year -- can vote for the 2011 Reader's Choice Award. Submit Your Nominations Today!

Project of the Year (Solar, Wind, Hydro, Geothermal and Bioenergy)  
Innovation Awards  
Leadership Awards

Please visit

<http://www.renewableenergyworld.com/partner/rew/expo/north-america/awards/2010-11-22/>.

#### **GEA Executive Director Plugs Geothermal on Platts TV Segment**

GEA's Executive Director appeared on a Platts Energy Week segment on geothermal energy. "The geothermal energy sector anticipates capacity additions to rebound in 2011 after this year's decline. Bill discusses the outlook for the industry with Karl Gawell" – see

<http://www.plattsenergyweektv.com/video/default.aspx#/Platts+Energy+Week+11.28.2010+%2D+Geothermal+Energy/681488582001>

#### **South Coast Air Basin Electricity Needs Assessment and Permitting Announces List Serve**

A new list serve is now available for the South Coast Air Basin Electricity Needs Assessment and Permitting (esr-sc), also known as AB 1318. To sign up for the new list serve, please go to:

[http://www.arb.ca.gov/listserv/listserv\\_ind.php?listname=esr-sc](http://www.arb.ca.gov/listserv/listserv_ind.php?listname=esr-sc).

Electrical System Reliability Needs of the South Coast Air Basin (AB 1318): <http://www.arb.ca.gov/energy/esr-sc/esr-sc.htm>. Please contact: Louis Carrari, [lcarrari@arb.ca.gov](mailto:lcarrari@arb.ca.gov).

## Current Notices

### DOE Seeks Peer Review Comments on Geothermal Life-Cycle Analysis

Life-Cycle Analysis Results of Geothermal Systems in Comparison to Other Power Systems  
Draft for Peer Review

The Geothermal Technologies Program is soliciting peer review comments on the draft report Life-Cycle Analysis Results of Geothermal Systems in Comparison to Other Power Systems from Argonne National Laboratory. ANL concludes that "despite the large amount of steel and concrete required per MW power capacity, enhanced geothermal systems are one of the lower GHG emitters of the renewable systems studied per unit of lifetime kWh output. EGS GHG emissions can be reduced even further as well depth decreases."

See <http://www1.eere.energy.gov/geothermal/plans/comments.cfm?doc=lifecycle>

### DOE Seeks Peer Review Comments on Geothermal Water Use

Water Use in the Development and Operation of Geothermal Power Plants  
Draft for Peer Review

The Geothermal Technologies Program is soliciting peer review comments on the draft report Water Use in the Development and Operation of Geothermal Power Plants from Argonne National Laboratory. ANL concludes that "Overall, geothermal technologies appear to consume less water on average over the lifetime energy output than other power generation technologies."

See <http://www1.eere.energy.gov/geothermal/plans/comments.cfm?doc=wateruse>

### Report on Assessing America's Renewable Energy Future Available for Download

The Report on Assessing America's Renewable Energy Future is available for download: [www.rnrf.org](http://www.rnrf.org). In light of recommendations from the scientific community for immediate reductions in greenhouse gas emissions, in December 2009 Directors of the Renewable Natural Resources Foundation (RNRF) brought together a select group of professionals from RNRF member organizations and leaders from government, industry, academia, and nongovernmental organizations. This report summarizes key facts and concepts from those panel presentations and discussions.

Of geothermal energy, the report says: "The geothermal industry has dozens of new projects in line for development. Construction of these new facilities will double geothermal capacity within the coming decade. Geothermal energy also is expanding beyond traditional geyser facilities to capitalize on a variety of potential new ways to extract heat energy from the earth. The industry faces financing issues, and research and technological needs, as it further develops enhanced geothermal systems and explores co-production with oil and gas."

The section on geothermal energy continues with information on presentations from Roy Mink, water and geothermal energy consultant, board member of U.S. Geothermal and Nevada Power; Brenda S. Pierce, program coordinator, Energy Resources Program, U.S. Geological Survey (USGS); and Karl Gawell, executive director, Geothermal Energy Association.

### Air Resources Board Public Hearing on Amendments to the Regulation for Mandatory Reporting of Greenhouse Gas Emissions (December 16)

The Air Resources Board will conduct a public hearing to consider the Amendments to the Regulation for Mandatory Reporting of Greenhouse Gas Emissions.

This notice, the ISOR and all subsequent regulatory documents, including the FSOR, when completed, are available on ARB's website for this rulemaking at: <http://www.arb.ca.gov/regact/2010/ghg2010/ghg2010.htm>

Inquiries concerning the substance of the proposed regulation may be directed to the designated agency contact persons, Mr. Doug Thompson, Manager of ARB Climate Change Reporting Section, Planning and Technical Support Division at (916) 322-7062, or Mr. Patrick Gaffney, Staff Air Pollution Specialist, at (916) 322-7303.

**SUBMITTAL OF COMMENTS** Interested members of the public may also present comments orally or in writing at the meeting, and comments may be submitted by postal mail or by electronic submittal before the meeting. The

public comment period for this regulatory action will begin on November 1, 2010. To be considered by the Board, written comments, not physically submitted at the meeting, must be submitted on or after November 1, 2010 and received no later than 12:00 noon on December 15, 2010, and must be addressed to the following: Postal mail: Clerk of the Board, Air Resources Board 1001 I Street, Sacramento, California 95814 Electronic submittal: <http://www.arb.ca.gov/lispub/comm/bclist.php>



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## **Employment**

### **New This Week**

#### **Landman, Nevada Geothermal Power**

In this position you will research who owns the land, or the minerals, water, lumber or other precious resources on or beneath the land, and then negotiates leases between landowners, mineral or resource owners and energy companies. The position involves work in the field, spending a great portion of their time in courthouses and archives and in the homes and offices of landowners and resource owners. In addition to researching titles, you will trace ownership of land and mineral rights, research patented mining claims, source water, acquire temporary right-of-way, buy leases and negotiate deals. You must be a skilled and determined researcher, an able negotiator and proficient in state real estate, mining and mineral laws. You will also prepare deeds, affidavits, notices, releases of leases and land, leasing reports as well as arrange probates, manage claim-staking projects, coordinate multi-rig drilling.

#### **Responsibilities:**

- Researches and documents farmouts, leases, rights-of-way, joint ventures and other types of geothermal agreements;
- Supports in-house title in gathering, organizing and analyzing title documents and performing internal title updates;
- Provides administrative support and record keeping to the title section; and
- Provides assistance to the drilling, operations and permitting staff.
- Prepares lease agreements, records rental receipts and performs other activities necessary to efficiently manage Company properties;
- Prepares and facilitates the execution of specialized lease documents;
- Participates as a team member of the development team for a geographic region; and
- Prepares assignments, generates request for payment of drafts, company checks, cashier's checks and/or wire transfer for the purchasing and selling of properties, releases of geothermal leases and other instruments required to complete and acquisition or sale of a property.
- Reviews and analyze leases, contracts and legal documents relative to the purchase or sale of property.
- Represents the company at various closings at the sale or purchase of properties including auctions as required.
- This position requires an individual who is experienced in the exploration and production business and well versed in all types of transactions, including farm-ins and farm-outs, joint ventures, acquisitions, dispositions, swaps, etc.
- Leasing with reports updated weekly
- Lease checks
- Land Reports
- Runsheets and Abstracts
- Title Curative

#### **Qualifications:**

- Associate's degree in land management, paralegal studies or related field or at least two years of related land experience which demonstrates knowledge of title curative, right-of-ways, geothermal lease documents, farmouts, mineral severance oil and gas contracts, joint ventures and courthouse research.
- Certified Professional Landman (CPL).

- Demonstrated success in regulatory compliance activities, particularly working with; BLM and other federal agencies, state agencies; e.g. geothermal, state engineers, AQ and environmental quality and local rural governments.
- Excellent technical writing skills.
- Strong negotiation skills.
- Working knowledge of Tax Maps, Farmline and topo maps and property deeds.
- Working knowledge of deed plotter programs and chain of title programs.
- Proficiency in Microsoft Word and Excel. GIS and Primavera a plus.
- Geothermal renewable energy experience is preferred but not required.

#### Competencies:

To perform the job successfully, an individual should demonstrate the following competencies.

- Strong work ethic, with a high level of energy and commitment to the position.
- Effective leadership skills which demonstrate the ability to participate in strategic thinking and problem solving.
- Excellent communication and presentation skills, both oral and written, with the ability to communicate with individuals at all levels both internally and externally.
- Well-developed interpersonal skills. Ability to get along with diverse personalities. Tactful, mature.
- Ability to establish credibility and be decisive—but able to recognize and support the organization's preferences and priorities.
- Ability to function effectively and efficiently in a fast-paced and changing environment with multiple priorities and objectives.

The Company offers excellent health benefits, competitive remuneration, and opportunities for career advancement in an exciting field of endeavor. No phone calls please. Only qualified candidates will be contacted for an interview. Email resumes to: [careers@nevadageothermal.com](mailto:careers@nevadageothermal.com), Fax resumes to: 604-688-5926

#### **Staff Geologist/GIS Technician, Nevada Geothermal Power**

The 'Staff Geologist/GIS Technician' position is a US based job located in Reno or Winnemucca, NV. The primary duties are to act as wellsite/field geologist for geothermal drilling operations including supervising mud logging operations, advising on formation characteristics for well design, supervising/monitoring well testing and collecting and reporting progress and data to management. The candidate will also be responsible for working with upper level geoscientists to compile and maintain geological/geospatial databases, process and analyze various geological/geophysical and well data within a GIS environment, and assist in the development of geological models and maps for internal use. Ancillary duties are to assist with basic permitting, federal regulatory compliance reporting, and internal reporting. He/she must also be willing to work occasional long hours with travel (valid US passport). Approximately 60% of their time will be spent performing GIS duties in the Reno, NV office, and approximately 40% as wellsite/field geologist in Nevada and Oregon.

#### Requirements:

- Background in either structural geology or petrology/mineralogy. Experience in hydrothermal/geothermal settings a plus.
- Strong GIS skill set and familiarity working with geological/geophysical datasets.
- Proficiency using ArcGIS Desktop suite of products (ArcMap, ArcCatalog, ArcToolbox, Spatial Analyst, 3D Analyst and Target for ArcGIS).
- Familiarity with geologic log creation and mapping software (Rockware, Geosoft, etc.).
- Excellent interpersonal, speaking, presentation skills.
- Excellent computer and email organizational skills:
- Excel or other data plotting/organization software.
- Word.
- Outlook.
- Excellent work ethic
- Occasional long hours, occasional weekends and late night/early morning call outs are common.
- Proactive, inquisitive, attentive with attention to details.

**Beneficial Assets:**

- 3D Geological or numerical modeling experience is a plus.
- Knowledge of current IT best practices.
- Integrate AutoCAD drawing files into ArcGIS formats
- Proficient in using publishing applications (e.g. Corel Draw) and multimedia development.

**Education/Experience:**

- Masters Degree in geology or geosciences.
- Or a minimum of 3 years applicable/related experience.

The Company offers excellent health benefits, competitive remuneration, and opportunities for career advancement in an exciting field of endeavor. No phone calls please. Only qualified candidates will be contacted for an interview. Email resumes to: [careers@nevadageothermal.com](mailto:careers@nevadageothermal.com), Fax resumes to: 604-688-5926

**Employment Opportunities**

For more details on employment opportunities listed here visit [http://geo-energy.org/empl\\_opport.aspx](http://geo-energy.org/empl_opport.aspx).

**NREL Seeking Applicants for Geothermal Analysis Group**

We're looking for applicants with geothermal or related technical backgrounds that have strong analytical skills and good writing/communication skills. If you have any graduate students, post-docs, former undergrads with some experience, or other contacts that are looking for employment and would be good fits for any of these positions, please forward them the information. They can also apply for the positions online at [http://www.nrel.gov/employment/job\\_openings.html](http://www.nrel.gov/employment/job_openings.html). You may also contact:

Chad Augustine  
Geothermal Energy Engineer/Analyst  
National Renewable Energy Laboratory  
1617 Cole Blvd. MS302  
Golden, CO 80401  
Office: (303) 384-7382

**Geothermal Faculty, Tenure Track, Dedman College, SMU (October 1 or until filled)**

Contact: Professor Brian Stump, Search Committee Chair, Department of Earth Sciences, Southern Methodist University, PO Box 0395, Dallas TX 75275 or to [sschwob@smu.edu](mailto:sschwob@smu.edu). A PhD is required at the time of appointment. The start date is August 1, 2011.

**Senior Level Assistant Site Manager, Operations and Maintenance**

Contact: [Richard@mrspokane.com](mailto:Richard@mrspokane.com) or call 509-340-2852 Ext. 18

**Senior Principal Geothermal Geologist – Brisbane, Australia**

Shane Stevens / Talent Search Team Manager, Origin  
Email: [Shane.stevens@originenergy.com.au](mailto:Shane.stevens@originenergy.com.au) Phone: +61 00 11 73858 0237

**Vice President Geology, Western US**

Please send resumes to [Bstevens@stmassociates.com](mailto:Bstevens@stmassociates.com)

**Geothermal Openings, NREL, Boulder, CO**

Go to [http://www.nrel.gov/employment/job\\_openings.html](http://www.nrel.gov/employment/job_openings.html) and search "geothermal"

**Drilling Manager, NV**

Contact: Andrew Matkovic / Vice President Clean Tech & Energy  
(216) 539-7668 or [andrewmatkovic@carmongroup.com](mailto:andrewmatkovic@carmongroup.com)

**Geophysicist, Calpine, The Geysers, CA**

To apply online, see

[https://www.hrapply.com/calpine/AppJobView.jsp?link=3645&page=AppJobList.jsp&skimSessionName=com.hrlogix.view.cont.app.JobListTable&skimName=requisition.requisition\\_id&skimNdx=4&op=reset](https://www.hrapply.com/calpine/AppJobView.jsp?link=3645&page=AppJobList.jsp&skimSessionName=com.hrlogix.view.cont.app.JobListTable&skimName=requisition.requisition_id&skimNdx=4&op=reset).

**Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID**

Please contact:

Vanessa Van Dyk at Idaho National Laboratory: [Vanessa.VanDyk@inl.gov](mailto:Vanessa.VanDyk@inl.gov), 208-526-6325

OR apply on line at: [www.inl.gov/careers](http://www.inl.gov/careers)

**Project Manager**

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.

[andrewmatkovic@carmongroup.com](mailto:andrewmatkovic@carmongroup.com) or (216) 539-7668

(updated 8/20/10)

**Development Manager**

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.

[andrewmatkovic@carmongroup.com](mailto:andrewmatkovic@carmongroup.com) or (216) 539-7668

(updated 8/20/10)

**Project Manager Geothermal Exploration, Europe**

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

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**Requests for Proposals****Closing This Week****Energy Production with Innovative Methods of Geothermal Heat Recovery, DOE (December 7)**

On Wednesday, November 10, DOE issued a modification to Funding Opportunity Announcement (FOA) DE-FOA-0000336, titled "Energy Production with Innovative Methods of Heat Recovery." This modification extended the due date for full applications. The modification also clarifies the objectives of this FOA and should be reviewed closely by pre-applicants considering submittal of a full application. The modified FOA may be found at [www.fedconnect.net](http://www.fedconnect.net) or [www.grants.gov](http://www.grants.gov).

Funding Opportunity Announcement Number: DE-FOA-0000336

Announcement Type: Initial

CFDA Number: 81.087

Issue Date: 08/19/2010

Pre-Application Due Date: 10/01/2010, 11:59 P.M. Eastern Time

Full Application Due Date: 11/30/2010, 11:59 P.M. Eastern Time

**REGISTRATION AND APPLICATION SUBMISSION REQUIREMENTS**

Registration Requirements: Allow at least 21 days to complete registrations.

To submit an application under this announcement, complete the following registrations:

1. Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, at <http://fedgov.dnb.com/webform>.
2. Register in the Central Contractor Registration (CCR) system, at <https://www.ccr.gov/>.



Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in CCR registration. These items are needed to submit applications in Grants.gov. Update your CCR registration annually.

3. Register in Grants.gov at <http://www.grants.gov/>. See the Organization Registration User Guide at <http://www.grants.gov/assets/OrgRegUserGuide.pdf>.

The Applicant User Guide is at <http://www07.grants.gov/assets/ApplicantUserGuide.pdf>.

4. Register in FedConnect at <https://www.fedconnect.net/>; use "Register as a Vendor" link. To create an organization account, your organization's CCR MPIN is required.

#### Where to Download the Application Package:

Download the Application Package for this announcement at <http://www.grants.gov/>. Click on the "Apply for Grants" link; then, click on the "Download a Grant Application Package" link and follow the instructions. Insert the announcement number to download the Application Package.

#### Where to Submit the Application Package:

Applications must be submitted through [Grants.gov](http://www.grants.gov/) to be considered for award. Follow instructions in the User's Guide for application submissions. Applicants are responsible for verifying successful transmission, prior to the Application due date and time.

#### Where to Ask Questions About the Funding Opportunity Announcement Content:

To ask questions about the Funding Opportunity Announcement, use FedConnect at <https://www.fedconnect.net/>. You must be a registered user in the system and submit questions by sending messages in your FedConnect email box. Part VII of this announcement explains how to submit questions to the Department of Energy (DOE).

#### Where to Submit Questions About the Registrations or Systems:

DUNS & Bradstreet: [govt@dnb.com](mailto:govt@dnb.com)

Central Contractor Registration (CCR) system: <https://www.bpn.gov/ccr/contactccr.aspx>, By phone: 866-606-8220 or 334-206-7828 (8:00 A.M. to 8:00 P.M., Eastern Time)

Grants.gov: [support@grants.gov](mailto:support@grants.gov), By phone: 1-800-518-4726 (7:00 A.M. to 9:00 P.M., Eastern Time)

FedConnect: [support@FedConnect.net](mailto:support@FedConnect.net), By phone: 1-800-899-6665 (8:00 A.M. to 8:00 P.M., Eastern Time)

### **Feasibility Study for Waste-To-Energy Plant - Columbia (December 7)**

The U.S. Trade and Development Agency requests proposals from U.S. firms to develop a feasibility study to determine the technical, economic and financial viability of a 20 MW waste-to-energy plant near the city of Medellin in the Colombian Department of Antioquia. \$573K available. Responses due 12/7/10. For more info, go to:

[https://www.fbo.gov/?s=opportunity&mode=form&id=dc518d00690b6b444cd439062be24b63&tab=core&\\_cview=0](https://www.fbo.gov/?s=opportunity&mode=form&id=dc518d00690b6b444cd439062be24b63&tab=core&_cview=0). Refer to Sol# 2010-51036A. (FBO 10/20/10)

### **Renewable Energy Microfinance and Microenterprise (December 8)**

The U.S. Agency for International Development requests proposals for the Renewable Energy Microfinance and Microenterprise Program (REMMP). This purpose of this program is to improve access to modern energy services in underserved communities. This will be achieved by focusing on household and community scale renewable technologies and promoting activities that foster an enterprise based approach to increasing energy access. \$5.6 million expected to be available, 1 award anticipated. Responses due 12/8/10. For more info, contact [remmp@usaid.gov](mailto:remmp@usaid.gov) or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=58708>. Refer to Sol# RFA-OAA-11-000002. (Grants.gov 11/9/10)

## New This Week

### Short Term Renewables – Nevada (December 15)

NV Energy seeks short-term renewable energy resources that can be delivered on or after 1/1/11, and for a period of one month to three years, to meet Nevada RPS requirements. Responses due 12/15/10. For more info contact ShortTermRFP@NVEnergy.com or go to:

<http://www.nvenergy.com/company/doingbusiness/rfps/shorttermRFP.cfm>. (Green Power Network 11/15/10)

### Research for Utility-Scale Renewable Energy – California (December 21)

The California Energy Commission requests proposals for Research Needs for Utility-Scale Renewable Energy. This RFP will support RD&D related to more rapid and environmentally responsible deployment of Utility-Scale Renewable Energy to the California electricity grid. Critical objectives include, but are not limited to:

Development of new applications of mixed (hybrid and/or integrated) renewable energy technologies; development and demonstration of innovative cost-effective designs; and development of mitigation approaches that result in reduced environmental impacts. \$7.368 million expected to be available, responses due 12/21/10.

For more info, contact Rachel Grant at [rgrant@energy.state.ca.us](mailto:rgrant@energy.state.ca.us) or go to:

[http://www.energy.ca.gov/contracts/pier.html#RFP\\_500-10-503](http://www.energy.ca.gov/contracts/pier.html#RFP_500-10-503). Refer to RFP 500-10-503.

### Water & Wastewater TA (December 31)

The U.S. Department of Agriculture requests proposals for the Technical Assistance and Training Grant Program.

This RFP will fund projects that assist communities with water or wastewater systems through free technical assistance and/or training provided by the grant recipients. \$17 million expected to be available, up to 6 awards anticipated. Responses due 12/31/10. For more info, contact Anita O'Brien at [anita.obrien@wdc.usda.gov](mailto:anita.obrien@wdc.usda.gov) or go to: <http://www.usda.gov/rus/water/tatq.htm>. Refer to Sol# RDUP-TAT-FY11. (Grants.gov 10/1/10)

### Assessment of Greenhouse Gases and Climate Impacts (January 7)

The U.S. Environmental Protection Agency requests proposals for Integrated Assessment of Greenhouse Gases and Climate Impacts. This RFP will support comprehensive, integrated modeling and assessment of multiple greenhouse gases (GHGs) and air pollutants, and the enhancement of understanding of climate change impacts and their economic implications to assist decision makers and the public to effectively respond to the challenges and opportunities posed by climate change. \$2 million expected to be available, up to 3 awards anticipated.

Responses due 1/7/11. For more info, contact Lesley Jantarasami at [integratedassessmentrfp@epa.gov](mailto:integratedassessmentrfp@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-CCD-10-13. (Grants.gov 11/9/10)

### Switzer Environmental Fellowships (January 15)

The Robert and Patricia Switzer Foundation request proposals for the Switzer Environmental Fellowship Program.

This program provides fellowships to graduate students in New England and California whose studies are directed toward improving environmental quality and who demonstrate the potential for leadership in their field. Awards have been made to students pursuing environmental policy, economics, land and water conservation, public health, journalism, architecture, environmental justice, business, and law as well as the more traditional sciences of biology, chemistry, and engineering. 20 fellowships of \$15K each anticipated, as well as networking and leadership support. Responses due 1/15/11. For more info, go to: <http://www.switzernetwork.org/grant-programs/fellowship-program>. (Foundation Center RFP Bulletin 10/1/10)

### WaterSMART - California (January 31)

The U.S. Department of the Interior, Bureau of Reclamation - Mid-Pacific Region, requests proposals for WaterSMART: California Bay-Delta Agricultural Water Conservation and Efficiency Projects. Through this RFP, the Bureau seeks projects that save water, improve water management, create new supplies for agricultural irrigation, improve energy efficiency, and benefit endangered species. Projects should also increase the capability or success rate of on-farm water conservation or water use efficiency projects that can be undertaken by farmers and ranchers through irrigation system improvements and irrigation efficiency enhancements. Projects must be located within the CALFED solution area. \$5 million expected to be available, up to 7 awards anticipated. Responses due 1/31/11. For more info, contact Mary Sims at [msims@usbr.gov](mailto:msims@usbr.gov) or go to:

<http://www.grants.gov/search/search.do?mode=VIEW&oppld=58759>. Refer to Sol# R11AF20006. (Grants.gov 11/15/10)

### **Sensors and Sensing Systems (February 15)**

The National Science Foundation requests proposals for Sensors and Sensing Systems. This program supports research on methods to acquire and use sensor data on civil, mechanical, and manufacturing systems. The program supports fundamental research on advanced actuators, sensors, wireless sensor networks, new materials and concepts for sensing applications, power generation and energy supply for sensors and sensing systems. Also of interest is research on the strategic incorporation of sensors into both natural and engineered systems to achieve effective data acquisition and on processing and transmission of sensor data. Responses due 2/15/11. For more info, contact Shih Liu at [sliu@nsf.gov](mailto:sliu@nsf.gov) or go to:

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13349](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13349). Refer to Sol# PD-10-1639. (Grants.gov 10/22/10)

### **Control Systems, NSF (February 15)**

The National Science Foundation requests proposals for Control Systems. This program supports innovative research on control theory and control technology driven by real life applications. Program emphasis is on paradigm-shifting ideas for control strategies that may be inspired by nature, unconventional applications, and the combined role of feedback and uncertainty in systems that incorporate large numbers of sensors and actuators. Responses due 2/15/11. For more info, contact Eduardo Misawa at [emisawa@nsf.gov](mailto:emisawa@nsf.gov) or go to:

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13575](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13575). Refer to Sol# PD-10-1632. (Grants.gov 10/18/10)

### **Manufacturing Enterprise Systems (February 15)**

The National Science Foundation requests proposals for Manufacturing Enterprise Systems. This program supports research on design, planning, and control of operations in manufacturing enterprises. Research projects addressing energy efficiency, renewable energy and the power grid have been awarded in 2010. Responses due 2/15/11. For more info, contact Russell Barton at [rbarton@nsf.gov](mailto:rbarton@nsf.gov) or go to:

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13342](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13342). Refer to Sol# PD-10-1786. (Grants.gov 10/25/10)

### **Materials and Surface Engineering (February 15)**

The National Science Foundation requests proposals for Materials and Surface Engineering. This program supports fundamental research leading to a better understanding of the effect of microstructure, surfaces, and coatings on the properties and performance of engineering materials; and the ultimate control of these properties through material design. Responses due 2/15/11. For more info, contact Clark Cooper at [ccooper@nsf.gov](mailto:ccooper@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13356](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13356). Refer to Sol# PD-10-1633. (Grants.gov 10/18/10)

### **Structural Materials and Mechanics (February 15)**

The National Science Foundation requests proposals for Structural Materials and Mechanics. This program supports fundamental research on the behavior of civil infrastructure materials and the mechanics of structural components in the built environment. Of particular interest is research on structural components consisting of natural and synthetic materials, their response to mechanical, hydrothermal, and time-dependent loads, and their impact on life-cycle performance and sustainable development of the civil infrastructure. Responses due 2/15/11. For more info, contact Clark Cooper at [ccooper@nsf.gov](mailto:ccooper@nsf.gov) or go to:

[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13357](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13357). Refer to Sol# PD-10-1635. (Grants.gov 10/18/10)

### **Mechanics of Materials (February 15)**

The National Science Foundation requests proposals for Mechanics of Materials. This program supports fundamental research on solid mechanics including theoretical, analytical, and computational approaches, model-based simulation, and the development of constitutive models. Responses due 2/15/11. For more info, contact Glucio Paulino at [gpaolino@nsf.gov](mailto:gpaolino@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13355](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13355). Refer to Sol# PD-10-1630. (Grants.gov 10/18/10)

**Materials Processing and Manufacturing (February 15)**

The National Science Foundation requests proposals for Materials Processing and Manufacturing. This program supports fundamental research on the interrelationship of materials processing, structure, performance and process control. Responses due 2/15/11. For more info, contact Mary Toney at [mtoney@nsf.gov](mailto:mtoney@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13344](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13344). Refer to Sol# PD-10-1467. (Grants.gov 10/18/10)

**Manufacturing and Construction Machines and Equipment (February 15)**

The National Science Foundation requests proposals for Manufacturing and Construction Machines and Equipment. This program supports fundamental research leading to improved machines and applications for both manufacturing and construction. Key goals are to advance the transition of these industries from skill-based to knowledge-based activities and to develop them as activities with minimal environmental and societal impact. Responses due 2/15/11. For more info, contact George Hazelrigg at [ghazelri@nsf.gov](mailto:ghazelri@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13346](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13346). Refer to Sol# PD-10-1468. (Grants.gov 10/18/10)

**International Young Eco-Hero Awards (February 28)**

Action For Nature invites applications for the International Young Eco-Hero Awards, to recognize the individual accomplishments of young people, ages 8 to 16, for their outstanding accomplishments in environmental advocacy, environmental health, research, or protection of the natural world. Winners will receive public recognition, cash prizes, and certificates for their outstanding efforts to help protect and preserve the environment. Responses due 2/28/11. For more info, go to: <http://www.actionfornature.org/>. (Foundation Center RFP Bulletin 10/1/10)

**U.S. DOE Office of Science (September 30, 2011)**

The U.S. Department of Energy, Office of Science, announces its continuing interest in receiving New and Renewal-Supplemental Applications for the Office of Science Grants and Cooperative Agreements. Areas of interest include, but area not limited to: Basic Energy Sciences, Biological and Environmental Research, and Advanced Scientific Computing. Subtopics include, but are not limited to: Materials Science, Solar Photochemistry, and Climate and Environmental Sciences. \$800 million expected to be available. Proposals accepted through 9/30/11. For more info on new grants, go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000411&agency=DOE>. Refer to Sol# DE-FOA-0000411. For more info on Renewal-Supplemental grants, go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000412&agency=DOE>. Refer to Sol# DE-FOA-0000412. (Grants.gov 9/30/10)

**U.S. Navy Energy Conservation Projects (October 31, 2012)**

The Naval Surface Warfare Center has issued a Broad Agency Announcement for White Papers that address Energy Conservation Applications for the U.S. Navy. This BAA solicits innovative concepts for Navy shipboard energy conservation and carbon footprint reduction with the potential for rapid transition to Fleet operation. The target segment of the Fleet is the ships operated by Military Sealift Command. Responses accepted to 10/31/12. The selection of one or more sources for full proposals and potential contract award will be based on responses to the BAA and the peer review process. For more info, contact Jamie Mattern at [james.g.mattern1@navy.mil](mailto:james.g.mattern1@navy.mil) or go to: [https://www.fbo.gov/?s=opportunity&mode=form&id=f4ea9da536f0413f20b80d9f02707b7e&tab=core&\\_cview=0](https://www.fbo.gov/?s=opportunity&mode=form&id=f4ea9da536f0413f20b80d9f02707b7e&tab=core&_cview=0). Refer to BAA# N00167-11-BAA-01. (FBO 11/3/10)

**Proposal Announcements****Coordination of the Colorado Geothermal Working Group**

The Governor's Energy Office (GEO) seeks quotes from independent contractors providing professional consulting services to assist the GEO in the coordination of the Colorado geothermal working group. Activities include: event and meeting logistic support (drafting and sending invitations, finding meeting space, contract catering services when appropriate, etc.), develop and distribute background and support material, and others.

### **Alaska Fairbanks North Star Borough Offers \$1m Matched-Funds Grant**

Alaska's Fairbanks North Star Borough is putting out a \$1 million grant through the Department of Energy for geothermal energy exploration for the proposal venture that can provide matching funds. Former Mayor Jim Whitaker initiated the request based on positive results of deep well testing 50 years ago. Luke Hopkins, Mayor of Fairbanks North Star Borough said researchers at the University of Alaska Fairbanks have shown interest. The goal is to find out whether the university's existing power plant could be replaced with a geothermal power plant.

See <http://www.azocleantech.com/details.asp?newsID=12786>

Fairbanks North Star Borough <http://www.co.fairbanks.ak.us/>

PDF: <http://co.fairbanks.ak.us/Meetings/Ordinances/2010/2010-20-1o.pdf>

### **USTDA-Sponsored Indonesia Geothermal Power Training Program Is Offering Business Development Opportunities for U.S. Companies**

January 10 – February 11, 2011

[www.indonesiageothermal.govtools.us](http://www.indonesiageothermal.govtools.us)

The United States Trade and Development Agency (USTDA) is sponsoring an in-country Indonesia Geothermal Power Development Training Program from January 10 to February 11, 2011, followed by a Reverse Trade Mission of Indonesian delegates to the U.S. in March 2011. The Indonesian government is seeking to expand its current geothermal power generation capacity of 1,100 MW to 9,500 MW by 2025 and has vested all responsibilities for geothermal resource development with the provincial authorities and local tendering committees. The USTDA-sponsored program is aiming to train these decision-makers in geothermal resource development and transparent tendering processes, while promoting U.S. geothermal business interests in Indonesia.

The Training Program will be delivered by U.S. technical experts at six different locations in Indonesia, identified with the greatest potential for business development. USTDA is offering a unique opportunity for U.S. companies to visit these training sessions and present on their company's products / services and successful projects – to an exclusive audience of decision-makers.

Also, an Opening Event with welcome reception and dinner is scheduled in Jakarta on Friday, January 14, 2011, where U.S. companies will have an opportunity to meet and network with the central and local Indonesian authorities from across various provinces, registered for the Training Program.

This is a chance to build a relationship and highlight your company to the local authorities! For more information on participation and/or sponsorships, please contact Andrew Graves at [agraves@bcs-hq.com](mailto:agraves@bcs-hq.com) or 410.997.7778 ext. 234.

Note: Participation at and/or sponsorship of all USTDA events is limited to U.S. Firms, U.S. individuals or U.S. companies, each as defined under ([www.ustda.gov](http://www.ustda.gov)).

### **Partner Sought for Hot Oil and Gas Wells, Mississippi**

Rich McAdoo ([rlmcadoo@continentalenergy.com](mailto:rlmcadoo@continentalenergy.com)) is seeking local operators or parties with access to properties with hot oil or gas wells (shut-in or production) located in Mississippi. If you are looking for a financial and technical partner to develop coproduction of geothermal fluids with oil and gas in Mississippi, send him an email.

### **Call for Geothermal Exploration Proposals, Neuquén, Argentina**

The Government of the province of Neuquén, Argentina has issued a call for geothermal exploration proposals in the Domuyo area, located 560 km from the capital city of the Province of Neuquén. The exploration contract allows exploitation of the minerals discovered for a period of up to 25 years. The successful bidder may request to receive the promotional benefits and incentives. The documentation containing the terms and conditions is on sale, and a non-commercial copy is available on the agency's web site. To request additional information, please contact the Agency: [info@adinqn.gov.ar](mailto:info@adinqn.gov.ar) or the Vice Presidency of ADI-Nqn: [Igalardi@adinqn.gov.ar](mailto:Igalardi@adinqn.gov.ar); Phone: +54 299 4494749; Mobile: +54 9 299 5552842 - [www.adinqn.gov.ar](http://www.adinqn.gov.ar)

A 7thspace.com article provides more background on the area: see [http://7thspace.com/headlines/355477/geothermal\\_energy\\_national\\_and\\_international\\_public\\_call\\_for\\_domuyo\\_project\\_neuquen\\_province.html](http://7thspace.com/headlines/355477/geothermal_energy_national_and_international_public_call_for_domuyo_project_neuquen_province.html).

### **Power Forecast, Haiti, TDA**

The U.S. Trade and Development Agency announces its intent to request proposals to provide technical assistance to forecast future power demand in Haiti and assist governmental and private sector entities in Haiti in developing a strategy to generate, transmit and distribute power to both urban and rural areas, to encourage Haiti's recovery from the disastrous earthquake and to fuel economic growth. The assistance will include the identification, assessment and quantification of renewable energy options such as wind, solar and biomass. \$800K expected to be available. For more info, contact Jason Bell at [jbelle@ustda.gov](mailto:jbelle@ustda.gov) or go to: [https://www.fbo.gov/?s=opportunity&mode=form&id=381bf13f574e4baee474468a6f994556&tab=core&\\_cview=0](https://www.fbo.gov/?s=opportunity&mode=form&id=381bf13f574e4baee474468a6f994556&tab=core&_cview=0). Refer to Sol# CO2010510006. (FBO 6/5/10)

### **Manufacturing and Construction Machines and Equipment**

The National Science Foundation requests proposals for Manufacturing and Construction Machines and Equipment. This program supports fundamental research leading to improved machines and applications for both manufacturing and construction. Key goals are to advance the transition of these industries from skill-based to knowledge-based activities and to develop them as activities with minimal environmental and societal impact. Research projects addressing renewable energy have been awarded in 2010. \$300K expected to be available. For more info, contact George Hazelrigg at [ghazelri@nsf.gov](mailto:ghazelri@nsf.gov) or go to: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13346](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13346). Refer to Sol# PD-10-1468. (Grants.gov 8/20/10)

### **Climate Change and Health, HHS**

The U.S. Department of Health & Human Services requests proposals for Climate Change and Health: Assessing and Modeling Population Vulnerability to Climate Change. This RFP encourages research of risk factors of populations that lead to or are associated with increased vulnerability to exposures, diseases, and other adverse health outcomes related to climate change. For more info, including funding and program contacts, go to: <http://grants.nih.gov/grants/guide/pa-files/PAR-10-235.html>. Refer to Sol# PAR-10-235. (Grants.gov 7/21/10)

### **Renewable Energy Proposals, NV Energy (December 15)**

Press Release, LAS VEGAS, November 4 — NV Energy (NYSE: NVE) is requesting bids for short-term renewable energy resources that can be delivered on or after Jan. 1, 2011, and for a period of one month up to three years. Bids are due Dec. 15, 2010.

NV Energy is open to three different types of short-term renewable energy offerings:

- \* Renewable energy bundled with all of its respective portfolio energy credits;
- \* An exchange of non-renewable energy from NV Energy for renewable energy; and
- \* Biogas that can be transported to NV Energy's power plants for electricity production.

NV Energy will accept offers of renewable energy structured as monthly shaping and firming transactions, which will allow renewable suppliers greater flexibility in their respective bid proposals.

Parties interested in submitting a response to the RFP can find more information at [www.NVEnergy.com/shortRFP](http://www.NVEnergy.com/shortRFP)

This is the third renewable resource solicitation released by NV Energy in 2010, as the company continues its efforts to secure a renewable portfolio standard of 20 percent by 2015 and 25 percent by 2025. Currently, NV Energy customers benefit from 44 separate geothermal, solar, biomass, small hydro, wind, and waste-heat recovery projects that are either in commercial operation or the project-development stage. The company's current renewable energy portfolio includes more than 1,200 megawatts.

## Industry/University Cooperative Research Centers (February 2, 2011)

The National Science Foundation requests proposals for Fundamental Research Program for Industry/University Cooperative Research Centers. This program provides support to centers to conduct fundamental research to better position themselves as leaders in emerging areas that could benefit the industries that they serve. Areas of interest include, but are not limited to: Energy and the Environment; and Advanced Manufacturing. \$1.6 million expected to be available, up to 10 awards anticipated. Responses due 2/2/11. For more info, contact Rathindra DasGupta at [rdasgupt@nsf.gov](mailto:rdasgupt@nsf.gov) or go to: <http://www.nsf.gov/pubs/2010/nsf10601/nsf10601.htm>. Refer to Sol# 10-601. (Grants.gov 8/17/10)

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## Events

### Happening This Week



#### Geothermal Investment Forum and Networking Event, CanGEA, Calgary, AB (December 2)

Geothermal Investment Forum and Networking Event (December 2nd, 2010 – Calgary, AB), Calgary Geothermal Power Investment Workshop and Networking Reception. CanGEA is proud to host, geothermal developers, investors, energy companies and policy makers, to explore advances and opportunities in the industry. See <http://www.cangea.ca/events/>.

#### GeoPower Europe, European Geothermal Energy Council, Paris, France (December 8–9)

For the current agenda and to register, visit

<http://www2.greenpowerconferences.co.uk/EF/?sSubSystem=Prospectus&sEventCode=GE1012FR&sSessionID=8ae2803966ed82ae2265bfed68f83b92-1060598>.

#### Air Force Renewable Energy Industry Day, Irving TX (December 8)

The US Air Force would like to invite interested geothermal companies to participate in a renewable energy day on December 8th at the Wyndham Resort in Irving Texas. If you are interested, please contact Ken Gray at [ken.gray@tyndall.af.mil](mailto:ken.gray@tyndall.af.mil).

### New This Week

#### Geothermal Panel at Power-Gen International (December 15)

Power-Gen International will include a panel of geothermal experts. If you are among the estimated 18,000 attendees at the event in Orlando, Florida, December 14-16 make sure to stop by.

Session: GEOTHERMAL POWER GENERATION

Date: Wednesday, December 15, 2010

Time: 1:30 – 3:30 PM

Chair: Jim Callihan, RenewableEnergyWorld.com

Session description: Geothermal power generation is rapidly growing in the U.S. and major projects are expanding rapidly. This session will present an overview of the technology, economics and future developments. This will specifically examine geothermal power plant design and the balance of technical/commercial considerations for sustainable geothermal power generation.

Panelists:

Dilip Joshi, SLDC, GETCO: Geothermal Energy Need of Present Scenario

Donald Speirs, Alstom: Importance of Geothermal Field Understanding to Success of Geothermal Power Plants Design

Karl Gawell, Geothermal Energy Association: Geothermal Energy - US and International Market Trends

Robert Emrich, Electratherm: Small Scale Power Generation from Geothermal and Co-Produced Fluids

Halley Dickey, TAS: Bottoming Flash Plants with Low Temperature and Hybridization

For more info: <http://www.power-gen.com/index.html>

### **Geothermal Energy Finance Forum 2011, NYC, NY (February 9, 2011)**

Geothermal Energy Finance Forum 2011 will be held at the Ritz-Carlton, Battery Park in New York City on February 9. Registration is now available at [http://geo-energy.org/events/finance\\_forum\\_2011.aspx](http://geo-energy.org/events/finance_forum_2011.aspx)

The Geothermal Energy Association (GEA) and Gold Level Sponsor, Islandsbanki, will be holding a one-day Geothermal Energy Finance Forum on Wednesday, February 9, 2011 at the Ritz-Carlton, Battery Park in New York City. This program will bring the finance and investment community of New York City together and provide a tutorial on geothermal energy investment with top experts and major players in geothermal development and finance. The day's agenda includes presentations and panel discussion on; geothermal technology, geothermal project development, financing and investment, risk mitigation, employment, government finance and incentives, legal and regulatory issues, and case studies from developers and financiers with recent success stories. In addition to bringing together the geothermal community with the finance and investment communities, this event will highlight the global growth in geothermal production and use.

Confirmed speakers to date include:

Dita Bronicki, CEO, Ormat Technologies  
Arni Magnusson, Executive Director- International Industries, Islandsbanki  
Nick Goodman, CEO, Raser Technologies  
Brian Fairbank, President and CEO, Nevada Geothermal Power Inc.  
John C.S. Anderson, Senior Managing Director, John Hancock Financial Services  
Toni Volpe, President and CEO, Enel North America, a Division of Enel Green Power  
Alison Thompson, VP Corporate Relations, Magma Energy Corporation  
John McIlveen, Research Director, Jacob Securities, Inc.  
Rick Rodgers, Managing Director, Montgomery Street Financial  
Halley Dickey, Director of Geothermal Business Development, Turbine Air Systems  
Mike Ronzello, Sales and Business Development Manager, Pratt & Whitney Power Systems  
John McKinsey, Partner, Stoel Rives LLP  
John Pierce, Partner, Wilson Sonsini Goodrich & Rosati  
Karl Gawell, Executive Director, GEA  
Jonathan Weisgall, Vice President of Legislative and Regulatory Affairs, MidAmerican Energy Holdings Company  
Steve Ponder, Development Director- Renewable Energy, NV Energy  
Subir Sanyal, President and Manager of Reservoir Engineering, GeothermEx, a Schlumberger Company  
Vicky McDowell, Deputy Administrator, US Treasury  
Saurabh Anand, Vice President, Denham Capital  
Keith Martin, Partner, Chadbourne & Parke, LLP  
Chris Demos, Senior Investment Officer, Overseas Private Investment Corporation

Invited speakers include representatives from: US Geothermal, Ram Power, Terra-Gen Power, Navy Geothermal Program, Gradient Resources, Merrill Lynch, Goldman Sachs, Hannon Armstrong, Raymond James, GE Capital Equity, Google.org, IFC, Department of Commerce Trade and Development Agency, Export-Import Bank, World Bank, Element Partners, and more.

## **GEA Events**

### **GEA Calendar of Events for 2011**

February 9, 2011 — GEA Geothermal Energy Finance Forum, New York, NY  
March 7-10, 2011 — Renewable Energy World North America Conference and Expo, Tampa, FL  
May 4-5, 2011 — GEA Geothermal New Technologies and Applications Showcase and Forum and Member's Meeting, Washington, DC  
July 20, 2011 — GEA Geothermal Energy Finance Forum, San Francisco, CA  
October 23-26, 2011 — GEA Geothermal Energy Expo® and GRC Annual Meeting 2011, San Diego, CA

Look for more information on these upcoming events at <http://geo-energy.org/events.aspx>.  
For sponsorship and speaking opportunities, or if you have other questions, contact Kathy Kent at [Kathy@geo-energy.org](mailto:Kathy@geo-energy.org).

### **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**

#### **Geothermal Heat Pump Training (Various Dates)**

Accredited Geothermal Installer Certification

Offered in partnership with the International Ground Source Heat Pump Association (IGSHPA). Those who pass the open book exam become IGSHPA Accredited Geothermal Installers. Course also includes a hands-on pipe fusion training and certificate.

For dates see: [https://www.heatspring.com/?id=geothermal\\_training](https://www.heatspring.com/?id=geothermal_training)

#### **POWER-Gen International, Orlando, FL (December 14–16)**

<http://www.power-gen.com/index.html>

#### **Renewable Energy World North America 2011, Tampa, FL (March 8–10, 2011)**

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

#### **BLM Announces Geothermal Lease Sale (March 22, 2011)**

Next Lease Sale date: March 22, 2011

#### **Geothermal Energy Utilization Associated with Oil and Gas Development, SMU Geothermal Laboratory, Dallas, TX (June 13–15, 2011)**

<http://smu.edu/geothermal/>

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### **GEOTHERMAL ENERGY WEEKLY**

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

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