

Geothermal Energy Weekly

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Geothermal Energy Association

~formerly the GEA Weekly Update~



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October 14, 2009

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 XVII Annual Congress and Annual Assembly, Mexican Geothermal Association, November 13 (Mexico) 19

 31st New Zealand Geothermal Workshop 2009, November 16–18 (Rotorua, New Zealand) 19

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www.geo-energy.org/publications/updates



National News

2009 Geothermal Energy Expo Welcomes Record-Breaking Numbers of Exhibitors and Attendees; Reno Becoming a Geothermal Center, but Loan Program Needed



Last week, industry representatives from around the U.S. and from across the globe took part in the Geothermal Energy Expo, the largest annual geothermal event in the world. This year’s Expo saw 120 exhibitors, 40 more than in 2008. Record amounts of individuals and companies are learning about geothermal energy and are willing to develop it; GEA estimates show roughly 2,300 walked the 2009 Expo floor, up from 1,700 in 2008. Visitors came from across the U.S., Iceland, France, Germany, Italy, Turkey, Indonesia, Canada, Australia, New Zealand, the Philippines, and Chile.

“When asked about attendance at the Geothermal Energy Expo, exhibitors were thrilled with the turnout they had seen,” said Kathy Kent, the Expo’s organizer and the Marketing and Events Manager for the Geothermal Energy Association. “Many remarked that this was the most well attended Expo they had been to in 2009.”

"There was a great vibe at the Geothermal Energy Expo. The excitement and overall positive energy of this year's attendees was infectious," Kent added. GEA expects to announce the date and location for its 2010 Geothermal Expo in early November 2009. For those interested in the 2010 event, contact Kathy Kent at kathy@geo-energy.org to make sure you receive all notifications about it.

There was a lot of press interest in how the program fit with its choice of location for 2009 -- Reno, Nevada. "Reno is becoming a geothermal hub and with the University of Nevada-Reno is world recognized," GEA's Executive Director told press last week at the Geothermal Energy Expo in Reno, Nevada. "You could be talking about geothermal to people in Germany and they know Reno is a key geothermal city." The Geothermal Energy Expo and the GRC Annual Meetings, held at the Peppermill casino in Reno, came just as GEA released its new industry report showing more geothermal projects under development in Nevada than any other state.

But, despite the growth in new projects, there was also a lot of discussion about how the federal agencies have been slow to implement provisions of the stimulus legislation considered key for new projects. This is causing delays, but expectations are that the problems will be remedied soon. This issue was discussed by DOE and DOI officials at the GEA Workshop and Annual Members Meeting on Saturday prior to the Expo. DOE officials acknowledged the need to move quickly with initiatives like the new loan guarantees, and only a few days after the workshop announced initiation of the program (*see next story*).

Exhibitors Best in Show Booth prize winners.

Best in Show, Large Booth: Team Australia Geothermal

Best in Show, Small Booth: Visionary Industrial Insulation

Best in Show, Best Creative Giveaway: Holtec International

Best in Show, Audience Choice: ThermaSource

Best in Show, Audience Choice, Runner Up: Islandsbanki

Winners of the GEA Poker Tournament:

1st Frederick Henderson, Nathrop, CO

2nd Tom King, Katonah, NY

3rd Lachlan Mclean, Las Angeles, CA

4th Greg Anyder, Denver, CO

5th Sal Palantino, Marlton, NJ



Pictured at right: Pratt & Whitney Power Systems, in conjunction with Chena Power in Alaska and the DOE, demonstrated a mobile geothermal power generation unit at the Peppermill Casino during the Expo; Pratt & Whitney scheduled tours from their Expo booth for attendees. The unit reaches 195°F to 300°F and electric output of 280 kW.

See <http://www.lasvegassun.com/news/2009/oct/09/turn-heat/>, <http://www.rgj.com/article/20091007/BIZ/910070404>, and <http://www.marketwatch.com/story/mobile-geothermal-power-system-demonstrated-at-the-2009-geothermal-energy-expo-2009-10-07>.

New DOE Private Sector Partnership to Accelerate Renewable Energy Projects through Loan Guarantees

Press Release, October 7 -- U.S. Energy Secretary Steven Chu today announced the Department of Energy (DOE) will provide up to \$750 million in funding from the American Recovery and Reinvestment Act to help accelerate the development of conventional renewable energy generation projects. This funding will cover the cost of loan guarantees which could support as much as \$4 to 8 billion in lending to eligible projects, and the Department will invite private sector participation to accelerate the financing of these renewable energy projects.

To this end, the Department announced the creation of its new Financial Institution Partnership Program (FIPP), a streamlined set of standards designed to expedite DOE's loan guarantee underwriting process and leverage private sector expertise and capital for the efficient and prudent funding of eligible projects.

"A renewable energy economy is a true opportunity to create new jobs, reinvigorate America's competitiveness, and support the president's goal of doubling renewable energy in the United States," said Secretary Chu.

"American innovation can be the catalyst that jumps starts a new clean energy Industrial Revolution."

For more, see

http://apps1.eere.energy.gov/news/news_detail.cfm/news_id=15537.

Read more information on this solicitation and the Department's Loan Guarantee Program at
www.lgprogram.energy.gov.

Congress Clears Energy and Water Funding Bill

A House-Senate Conference Committee completed its work on the FY 2010 Energy and Water Appropriations Bill that includes funding for DOE's renewable energy programs. The final measure provides \$2.2 billion for energy efficiency and renewable energy programs at DOE, and \$44 million for the Geothermal Technologies Program with several earmarks including funds for geothermal development in Montana and Oregon.

For more information on the final bill, including a table of earmarks, go to:

http://appropriations.house.gov/Subcommittees/sub_ew.shtml



Company News

Atlas Copco Gas and Process. Company Showcases Binary Cycle Solutions

An October 2 press release introduced visitors at last week's Geothermal Energy Expo to Atlas Copco's Binary Cycle Solutions.

"Around the world, geothermal energy recovery is emerging as a powerful answer to today's climate and energy challenges," read the release. "Over the past few years, Binary Cycle technology has proven the key to unlocking the vast potential of the world's low temperature geothermal energy resources. With a steady commitment to innovation, Atlas Copco Gas and Process has pioneered a full suite of Binary Cycle solutions."

"In close interaction with our customers, our experts have unlocked the energy potential of geothermal resources in a number of groundbreaking reference projects in Europe and the US. And it shows. In 2009, Atlas Copco was recognized for the fourth time as part of the Global 100 list of the world's most sustainable corporations. In addition, Atlas Copco is a member of the Dow Jones Sustainability Indexes and the FTSE4Good Index."

For more, see www.atlascopco-gap.com.

Electric Power Research Institute. Management Changes Announced

Press Release, Palo Alto Calif., October 5 -- Electric Power Research Institute (EPRI) President and CEO Steven R. Specker today announced leadership changes in top management.

Carolyn Shockley will join EPRI as vice president of its Fossil Generation sector which provides information, processes and technologies to improve the reliability, operational and environmental performance, and efficiency of the new and existing fossil-fueled generating fleet.

Prior to joining EPRI, Shockley was general manager of GE Energy's Performance Services Projects, where she led a \$700 million global business providing upgrades to steam turbines, gas turbines, and generators. She has also held key leadership roles in several other GE Energy business units including nuclear and transmission and distribution.

For more, see http://www.epri.com/index/display/article-display/3331520962/s-articles/s-electric-light-power/s-policy-and_regulation/s-2009/s-10/s-epri-announces_management.html.

Islandsbanki. Icelandic Bank Issues U.S. Report, Supports U.S. Geothermal Development

Islandsbanki (formerly Glitnir) issued its third annual U.S. Geothermal Energy Market Report, showing around 144 geothermal energy projects in development in the U.S., according to icenews.is. The report was released at the Geothermal Energy Expo in Reno last week, highlighting the Icelandic bank's commitment to the U.S. geothermal industry. Some challenges that were named were financing for construction and development beyond the drillings stage, while investment tax credits, cash grants, loan guarantees, and research development allocations have had positive effects.

See

<http://www.icenews.is/index.php/2009/10/06/islandsbanki-committed-to-geothermal-energy-development-in-the-u-s/>.

For further details, visit www.islandsbanki.is/energy.

Raser Technologies. Update on Geothermal Activities

Provo, Utah, October 6, -- Raser Technologies, Inc. (NYSE: RZ), an energy technology company, today released an update on its geothermal activities and its PHEV project, updating stockholders, the media and the public on its progress and strategy.

Lightning Dock, New Mexico Project

Raser recently received final approval of a key permit from the New Mexico Oil Conservation Division (OCD) for injection of geothermal fluids for the Lightning Dock No. 1 project. Raser's in-house geology and reservoir management team is conducting its final review of the Lightning Dock resource in anticipation of commencing drilling on site, pending the completion of funding for the project.

Raser is also in the process of negotiating a revision to its power purchase agreement (PPA) with the Salt River Project Agricultural Improvement and Power District. The revision is expected to include an increase in the expected output from the Lightning Dock project as well as an increase in the price of energy under the PPA.

Thermo Update

Raser is now in the final stages of testing the fifth production well needed for the completion of Thermo No. 1 as part of its plan to bring the plant to full capacity by the end of the year. Raser is also preparing to re-work existing wells and is taking other steps to optimize the operations of the plant, including working with Pratt & Whitney Power Systems to make certain modifications to the PureCycle units on site.

For more, see <http://www.rasertech.com/news>.



Renewable Energy and Climate Change

EPA Proposes Greenhouse Gas Tailoring Rule for Stationary Sources

In order to limit the number of greenhouse gas emissions sources to be regulated under the Clean Air Act's construction and operating programs, the EPA has proposed a rule that limits the size of those sources. According to the EPA, without such a rule, state permitting authorities would be paralyzed by the applications from large numbers of small sources which are currently not subject to regulation under the Clean Air Act.

Under the Clean Air Act "major sources" of greenhouse gases are those that emit 100 to 250 tons per year of a pollutant. In the proposed tailoring rule the EPA would classify a major source of greenhouse gases as one that emits more than 25,000 tons per year of CO₂e of CO₂, CH₄, N₂O, HFC's, PFC's, and SF₆. The 25,000 tons per year threshold would remain in place for five years in order to assess the feasibility of the rule and determine what adjustments need to be made.

For more information on the EPA's Greenhouse Gas Tailoring Rule read the alert released by Van Ness Feldman (<http://www.vnf.com/news-alerts-396.html>) or go to (<http://www.epa.gov/nsr/documents/GHGTailoringProposal.pdf>)

Article on Fracking in the Oil and Gas, Water, and Geothermal Industries

An article on greeneconomypost.com talks about geothermal energy and fracking. It provides background on the history of fracking in the oil and gas industry as well as its use in the water industry, and studies going on with geothermal energy today.

"Fracking is a technical term for hydraulic fracturing of deep rock deposits, developed and perfected by the oil & gas industry in which a high pressure fluid is injected into a deep (oil or gas bearing in the case of the Oil & Gas industry) geologic formation in order to fracture the rock and make it more permeable," explains the article. "In fracking the high pressure fluid spreads out from the bore hole creating a spreading fracture zone around it. The fractures are kept open by injecting sand or small ceramic beads – called poppants – into the spreading cracks that are mixed in slurry with the water."

"Fracking is also used in the water industry in order to increase the flow of water into a bore hole," the article continues. "In this case, only a pure water and poppant (i.e. sand or ceramic bead) slurry is forced down the well and into the spreading fracture zone. This is also what would be done for geothermal hot rock fracking, because the objective is purely the physical cracking or fracturing of a zone of hot rocks in order to make them water permeable and thus able to produce hot water or steam."

See <http://greeneconomypost.com/fracking-geothermal-4804.htm>.



State News

California. Gov. Schwarzenegger and Secretary Salazar Sign MOU to Expedite Renewable Energy Development

Interior Secretary Ken Salazar and California Gov. Arnold Schwarzenegger this week signed a memorandum of understanding to expedite siting and approval of renewable energy facilities on public lands. California is the first state to sign such an MOU with the Department of the Interior, which will aid efforts in cooperatively developing long-term renewable energy plans. The memorandum focuses on 30 solar, wind, and geothermal projects on track to break ground by the end of 2010.

See

http://californianewswire.com/2009/10/12/CNW5651_192812.php and
<http://latimesblogs.latimes.com/greenspace/2009/10/feds-schwarzenegger-sign-pact-to-aid-renewableenergy-efforts.html>.

California. New BLM Office will Accelerate Renewable Energy Applications

As mentioned by GEA in a [September 9 newsletter](#), BLM is now establishing Renewable Energy Coordination Offices (RECO) to expedite processing of applications for projects and associated transmission facilities. This week Secretary of the Interior Ken Salazar visited Palm Springs, California to mark the official opening of a RECO office there, according to [triplepundit.com](#); the first RECO opened in Nevada this summer.

Salazar spoke to the need to “balance vital renewable energy development with the needed protection of sensitive resources in the California Desert Conservation Area,” according to the article.. He said that RECO offices will use new procedures to expedite the leasing, production, and delivery of renewable energy to consumers in less time than under current practices. Currently the BLM has received about 500 renewable energy project applications for the development of wind, solar, and geothermal energy resources.

See <http://www.triplepundit.com/2009/10/new-blm-office-opens-to-fast-track-renewable-energy-proposals/>.

California. Coso Breaks Ground on Water Pumping Project

Coso Operating Company broke ground on its water pumping project for its in September, according to inyoregister.com. The water will help the geothermal power plant, located 9 miles from Coso's Hay Ranch property, generate an additional 50 MW of power. Pumping will begin by December 2009. For the first year of pumping, there will be monitoring and measuring of the aquifer to establish seasonal variances and to determine the effect of pumping on the aquifer.

See

<http://www.inyoregister.com/content/view/121168/1/>.

California. Coso Breaks Ground on Water Pumping Project

Coso Operating Company broke ground on its water pumping project for its in September, according to inyoregister.com. The water will help the geothermal power plant, located 9 miles from Coso's Hay Ranch property, generate an additional 50 MW of power. Pumping will begin by December 2009. For the first year of pumping, there will be monitoring and measuring of the aquifer to establish seasonal variances and to determine the effect of pumping on the aquifer.

See

<http://www.inyoregister.com/content/view/121168/1/>.

California. CEC Holds Hearing on Best Management Practices for Renewable Projects in the Desert

The California Energy Commission has published a draft staff report entitled "Best Management Practices and Guidance Manual: Desert Renewable Energy Projects" which includes proposed BMPs for geothermal. CEC scheduled a meeting for October 13 to take public comments on the draft report. For a copy of the meeting notice, or to download a copy of the draft report, go to: <http://www.energy.ca.gov/33by2020/documents/>.

Idaho. Boise State Awarded \$5M for Geothermal Data System; GEA to Participate in Data Project

By Dan Jennejohn, GEA Research Associate

Boise State University announced on October 5 that as the institutional lead for the National Geothermal Data Consortium, it had been awarded \$4.9M from the federal government for the establishment of a National Geothermal Data System (NGDS). The \$4.9M in federal funding has been granted to the Consortium via the Department of Energy (DOE) and is to be used over the next 5 years to build the NGDS, a project initially proposed in response to the American Recovery and Reinvestment Act to supports the diversification of the nation's energy portfolio.

The goal of the NGDS is to encourage growth in the geothermal industry by lowering the risk associated with geothermal resource development through the acquisition, management and maintenance of geothermal data. Boise State University is collaborating with a number of other institutions to form a National Geothermal Data Consortium in order to design and develop the NGDS. In addition to the formation of the National Geothermal Data Consortium, the USGS has agreed to assess and classify domestic geothermal resources and national or regional teams will be assigned to populate the NGDS.

Other organizations involved in the National Geothermal Data Consortium are the Energy and Geoscience Institute at the University of Utah; the Great Basin Center for Geothermal Energy at the University of Nevada Reno, the Geothermal Heat Center at the Oregon Institute of Technology, and the Stanford Geothermal Program at Stanford University. In addition to these educational institutions the Geoscience Information Network, the U.S. Geological Survey, the Bureau of Land Management, and the Geothermal Energy Association will also participate in developing the NGDS.

For additional information on the NGDS go to <http://www.geothermaldata.org/Home.aspx>

Wyoming. Waste Heat Geothermal Project Collaboration Underway

As featured at GEA's recent Direct Use and Small Power Workshop in Klamath Falls (see GEA's [August 21 newsletter](#)), the Department of Energy and Ormat Technologies are teaming up to use waste heat fluids to power equipment at oil and gas sites, according to cleantechnica.com. An article linked here explains how the Office of Energy Efficiency and Renewable Energy (EERE) will collaborate with the Office of Fossil Energy to create low-temperature geothermal power using a waste heat geothermal unit. The demo will use co-produced fluids from oilfield operations at the Rocky Mountain Oilfield Testing Center in Wyoming.

See <http://cleantechnica.com/2009/10/04/doe-introduces-big-oil-to-new-energy-source-waste-heat-geothermal/>.



International News

Chile. Energy Minister Declares Potential of Geothermal Energy; Well Blowout Investigated

GEA reported on news of a well blowout at the Tatio Geysers in an [October 1 newsletter](#); this week, bnamericas.com quotes Chile's energy minister Marcelo Tokman urging the industry to take it in stride and that geothermal energy has great potential in the country.

Geothermal exploration activities in the area have been indefinitely suspended, and no damage to geysers has been seen. "We have to look at what happened and analyze it carefully," Tokman told press. "We have to see if this accident could have been avoided. And then we have to look and see if the response was correct."

See

http://www.bnamericas.com/news/electricpower/Minister_urges_calm_after_geothermal_well_blowout

Indonesia. Exploratory Drilling Underway in Bengkulu, Sumatra

State-owned oil company Pertamina is exploring geothermal energy sources in Bengkulu, according to tempointeractive.com, with drilling begun in Hulu Lais, Lebong for up to 55 MW of power. Bengkulu Energy and Mineral Resources Office chief in charge of Energy, Ahyan Endu, told press the drilling and infrastructure phase will take up to two years.

See

<http://www.tempointeractive.com/hg/nasional/2009/10/08/brk,20091008-201553.uk.html>

Turkey. Plans in Motion for New 60-MW Geothermal Field

Turkey's Zorlu Group has plans for a 60-MW geothermal field after recent results on feasibility studies, according to hurriyetdailynews.com. The group owns another 17.4-MW plant. Drilling measures to confirm the feasibility studies will begin next month. If all goes well, operations could begin by August 2012.

"We have used a substantial part of the 22 million Turkish lira budget for the rehabilitation of the existing facility," Ali Kindap, deputy managing director told press. "The basic reason for this expenditure is that we regard the reservoir as a sustainable resource." With plans including rehabilitation of the existing plant, expenditure will total \$250 million.

See <http://www.hurriyetdailynews.com/n.php?n=zorlu-finds-new-geothermal-field-2009-10-05>

UK. Geothermal Engineering Ltd Outlines Plans for UK's First Commercial Geothermal Plant

Geothermal Engineering Ltd plans to develop the UK's first commercial scale geothermal power plant near Redruth, according to businesscornwall.co.uk. The plant will supply 10 MW of power to the national grid, as well as up to 55 MW for local heating purposes. Drilling will

begin in 2010 and will be ready for operations in 2013. A public exhibition on how the plant will work will be held October 27 (3pm–8pm) and 28 (9am–1pm) at Carharrack Mills Hall.

See <http://www.businesscornwall.co.uk/news-categories/press-releases/geothermal-outlines-power-plant-plans-123>.



www.geo-energy.org/publications/updates



Notices

Notices Available on GEA Web Site

Online Geothermal Discovery Guide

Distributed Temperature Sensing in Geothermal Energy Applications

9 Billion Dollar Energy Investment Fund

Labor Department Offers \$500 Million for Clean Energy Job Training (August–October)

For details, see <http://geo-energy.org/publications/updates.asp#Notices>.



Employment

Employment Opportunities Available on GEA Web Site

Drilling Program Manager, Major Geothermal Power Company in CA

Senior Director, Business Development, Major Geothermal Company

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

For details, see <http://geo-energy.org/publications/updates.asp#Employment>.



Requests for Proposals

Closing This Week

Brownfields Assessment Grants (October 16)

Brownfields Cleanup Grants (October 16)

Brownfields Revolving Loan Funds (October 16)

Added This Week

RECs – Ohio (no date given)

FirstEnergy Corp. announces its intent to secure renewable energy credits (RECs) for its Ohio utility customers. For more info, contact Leah Bissonette at rfp@navigantconsulting.com or go to:

<http://www.firstenergyrenewable.com/2009OhioRFP2/index.html>. (Green Power Network 9/29/09)

RECs – Massachusetts (October 19)

The Defense Energy Support Center seeks 1,002,800,000 kWh of renewable energy certificates (RECs) on behalf of the U.S. Environmental Protection Agency, John W. McCormack Federal Building, Boston, MA. Responses due 10/19/09. For more info, contact Cynthia Ralph at cynthia.ralph@dla.mil or go to:

<https://www.fbo.gov/index?s=opportunity&mode=form&id=507fd61d44cbbacd6a620c643b407446&tab=core&tabmode=list>. Refer to Sol# SPO600-09-R-0413. (FBO 9/8/09)

Renewables and RECs – Washington (October 23)

Avista Utilites seeks up to 35 MW of eligible renewable energy resources and associated renewable energy certificates (RECs) to meet Washington RPS requirements. Notice of Intent to Bid due 10/7/09, final proposals due 10/23/09. For more info, contact 2009renewablesRFP@avistacorp.com or go to:

<http://www.avistautilities.com/inside/resources/renewables/Pages/default.aspx>. (Green Power Network 9/29/09)

Electric Energy Innovations – California (October 27)

The California Energy Commission requests proposals for the Energy Innovations Small Grant Program – Electricity Program. EISG funds the early development of innovative energy RD&D projects. Projects must target one of the following: Industrial/Agriculture/Water End-Use Efficiency; Building End-Use Efficiency; Environmentally Preferred Advanced Generation; Renewable Generation; Energy-Related Environmental Research; and Energy Systems Integration. Proposed projects must be clearly relevant to California's electric market. Individual hardware awards NTE \$95K, individual modeling awards NTE \$50K. Responses due 10/27/09. For more info, contact eisg@projects.sdsu.edu or go to:

<http://www.energy.ca.gov/contracts/smallgrant/index.html>. Refer to Sol# 09-02.

Renewables – New York (October 29)

New York Power Authority RFP seeking up to 35 MW of renewable energy resources for the Village of Solvay Electric Department in Onondaga County, N.Y. Responses due 10/29/09. For more info, contact Jordan Brandeis at jordan.brandeis@nypa.gov or go to: <http://www.nypa.gov/doingbusiness/powerpurchase/Solvay/index.htm>. (Green Power Network 9/9/09)

Renewables and RECs – Texas (November 13)

El Paso Electric Co. seeks approximately 473 million kWh of eligible renewable energy resources and/or renewable energy certificates to meet New Mexico RPS requirements. Notice of Intent to Bid due 10/16/09, final proposals due 11/13/09. For more info, contact Paul Garcia at pgarci1@epelectric.com or go to:

<http://www.epelectric.com/site/about.nsf/by+subject/El+Paso+Electric+Issues+Request+for+Proposals+for+Renewable+Energy+Supply+2009?OpenDocument>. (Green Power Network 10/2/09)

DOE SBIR/STTR Phase I (November 20)

The U.S. Department of Energy requests proposals for Small Business Innovation Research (SBIR) Small Business Technology Transfer Phase I. SBIR/STTR supports R&D from small businesses concerning scientific or engineering problems and opportunities that are likely to lead to significant public benefit if the research is successful. 68 topics of interest identified, which include, but are not limited to: Hydrogen, Fuel Cells, and Infrastructure Technologies; Geothermal, Wind and Solar Technology Development; Production of Biofuels from Cellulosic Biomass; Technologies Related to Energy Storage for Hybrid and Plug-in Electric Vehicles; Transitional Technologies for Solid State Lighting; Energy Efficient Membranes for Industrial Applications; Hydrogen Safety, Storage, Delivery, and Production; Climate Control Technology for Fossil Energy Applications; Carbon Cycle Measurements of the Atmosphere and the Biosphere;

Enhanced Availability of Climate Model Output; and Atmospheric Measurement Technology. \$36 million expected to be available, up to 360 awards anticipated. Responses due 11/20/09. For more info, contact Carl Hebron at sbirsttr@science.doe.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=49632>. Refer to Sol# DE-FOA-0000161. (Grants.gov 9/24/09)

Electric Power Sector Workforce Training – Recovery Act , EPA (November 30)

The U.S. Department of Energy requests proposals for Workforce Training for the Electric Power Sector. This initiative will support the development of a well-trained, highly skilled electric power sector workforce which is vital to implementing a national clean-energy smart grid. \$100 million expected to be available, up to 45 awards anticipated. Responses due 11/30/09. For more info, contact John Wiltshire at John_J_Wiltshire@RL.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppId=49601>. Refer to Sol# DE-FOA-0000152. (Grants.gov 9/21/09)

Renewables and RECs – Arizona (November 30)

Tucson Electric Power Inc. and UNS Electric Inc. seek approximately 50,000 MWh of eligible solar energy resources and the associated RECs to meet Arizona RPS requirements. Responses due 11/30/09. For more info, contact Harold Judd at hjudd@acciongroup.com or go to: <http://www.uesaz.com/wholesale/>. (Green Power Network 9/29/09)

People, Prosperity and the Planet, EPA (January 5, 2010)

The U.S. Environmental Protection Agency requests proposals for the 7th Annual P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet. P3 supports R&D and design solutions to real world challenges involving the overall sustainability of human society. Areas of interest include: Energy, Built Environment, Materials and Chemicals, Water, and Agriculture. \$850K expected to be available, up to 46 awards anticipated. Responses due 1/5/10. For more info, contact Cynthia L. Nolt-Helms at nolt-helms.cynthia@epa.gov or go to: http://epa.gov/ncer/rfa/2010/2010_p3.html. Refer to Sol# EPA-G2010-P3. (Grants.gov 8/28/09)

Other RFPs Available on GEA Web Site

RFP for State Energy Program, DOE (Due Dates Vary)

RFP for Contribution of Cost Share for Transportation Related Recovery Act RFPs, CEC (Due Dates Vary)

RFP for Technology and National Research Priorities, Recovery Act (Ongoing)

Fellowships for Graduate Environmental Study (October 22)

RFP for National Lab Partnerships for Energy Research, DOE (November 9)

Environmental Information Exchange Network (November 20)

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

RFP for Renewable Energy Resources, Los Angeles (March 11, 2010)

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

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

For details, see <http://geo-energy.org/publications/updates.asp#RFPs>.



Events

Happening This Week

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

Indonesia has 45% of the world's geothermal energy resources. Renewable Energy Indonesia 2009 is the 5th international exhibition for all renewable energy technologies. It will be held at the International Exhibition Centre at Kemayoran, October 14–17, 2009.

For more information: www.pamerindo.com.

Added This Week

Blue Mountain 'Faulkner 1' Geothermal Plant Dedication Ceremony, October 22 (Winnemucca, NV)

The 49.5-MW Blue Mountain 'Faulkner 1' Geothermal Power Plant Dedication Ceremony will take place on October 22, 2009. The invite-only event will begin at approximately 11:00 am at the 'Faulkner 1' Power Plant just outside of Winnemucca, NV. There will be approximately 200 attendees including employees, vendors, stakeholders, media, and government officials.

GEA Events

Calendar of Upcoming GEA Events 2010

October 3, 2009	GEA Members Meeting and Policy Workshop Peppermill, Reno, NV
October 4–7, 2009	Geothermal Energy Expo and GRC Annual Meeting 2009 Peppermill, Reno, NV

December 8–10, 2009	PowerGen International 2009 Las Vegas Convention Center, Las Vegas, NV
January 2010	GEA Geothermal Energy Finance Forum New York, NY
February 23–25, 2010	Renewable Energy World North America 2010 Austin, TX
April/May 2010	GEA Geothermal Symposium Washington, DC
July 2010	GEA Geothermal Energy Workshop Las Vegas, NV
TBA	GEA Geothermal Expo and Conference GEA’s annual Geothermal Energy Expo, date and location to be announced

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.

Events Available on GEA Web Site

SMU Geothermal Conference, November 3–4 (Dallas, TX)

2nd Annual Australian Geothermal Energy Conference, November 10–13 (Brisbane, QLD)

XVII Annual Congress and Annual Assembly, Mexican Geothermal Association, November 13 (Mexico)

31st New Zealand Geothermal Workshop 2009, November 16–18 (Rotorua, New Zealand)

GeoPower Europe 2009, December 3–4 (Munich, Germany)

For details, see <http://geo-energy.org/publications/updates.asp#Events>.

Geothermal Energy Weekly

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

209 Pennsylvania Avenue SE, Washington, D.C. 20003

Phone 202-454-5261 Fax 202-454-5265

research@geo-energy.org

