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National News

EPA Proposal Shows GHG Emissions Pose Danger to Public

Responding to the Supreme Court opinion in Massachusetts v. EPA, 549 U.S. 497 (2007), the Environmental Protection Agency (EPA) on April 17 issued a proposed finding that six greenhouse gases

(GHGs) endanger the public health and welfare under Section 202(a) of the Clean Air Act (CAA), according to vnf.com. "These high atmospheric levels are the unambiguous result of human emissions, and are very likely the cause of the observed increase in average temperatures and other climatic changes," the agency said in its finding.

The EPA had previously denied a petition by states and environmentalists to regulate vehicle GHG emissions. The proposed endangerment finding would be the first step toward issuing vehicle GHG emissions standards. Four GHG pollutants in vehicle emissions were found to contribute: carbon dioxide, methane, hydrofluorocarbons, and nitrous oxide. The U.S. transportation sector emissions account for 24% of nationwide GHG emissions and 4% of global GHG emissions.

"This finding confirms that greenhouse gas pollution is a serious problem now and for future generations. Fortunately, it follows President Obama's call for a low carbon economy and strong leadership in Congress on clean energy and climate legislation," EPA Administrator Lisa Jackson told press. "This pollution problem has a solution - one that will create millions of green jobs and end our country's dependence on foreign oil."

Comments on the proposed findings are due 60 days after the publication of the findings in the Federal Register. The agency will hold public hearings in Arlington, VA on May 18, and in Seattle, WA on May 21. See <http://epa.gov/climatechange/endangerment.html>.

According to the article, public health impacts identified include increased morbidity and mortality from heat waves; respiratory ailments linked to increasing surface ozone concentrations; and increased spread of pathogens such as salmonella. Welfare impacts include increased heavy rainfall and flooding; sea-level rise and saltwater intrusion into water supplies; ocean acidification; intensified drought in dry areas of the country; decreases in hydroelectric power generation; forest fires, crop failures, and insect outbreaks; and more intense tropical storms and storm surges.

See <http://www.vnf.com/news-alerts-355.html> and <http://yosemite.epa.gov/opa/admpress.nsf/0/0EF7DF675805295D8525759B00566924>.

Obama Promotes Energy Agenda; Cap-and-Trade Hearings This Week

President Obama plans to promote his alternative energy agenda on Earth Day with a trip to a former Maytag plant in Iowa that now makes towers for wind energy production, according to the *Boston Globe*.

"Iowa, a leader in wind energy, is a perfect example of how a community can rebuild a local economy with investments in clean energy and efficiency. Trinity employs dozens of former Maytag employees and is part of the revitalization of a town hard hit by the closing of the Maytag plant," the White House announcement said. "President Obama will discuss components of his comprehensive energy plan, which include promoting clean energy innovation to help end our dependence on foreign oil, creating millions of new jobs, and preventing the worst consequences of climate change."

In conjunction with Earth Day, Senator John F. Kerry has announced a hearing for negotiations on a Foreign Relations Committee global warming pact.

And representatives Henry A. Waxman, chairman of the House Energy and Commerce Committee, and Edward J. Markey, chairman of the Energy and Environment Subcommittee, have announced four days of hearings starting April 21 on the proposed cap-and-trade system bill. EPA administrator Lisa Jackson, Energy Secretary Stephen Chu, and other leaders will testify.

See http://www.boston.com/news/politics/politicalintelligence/2009/04/obama_back_on_r.html.

Company News

Enel North America: Two Geothermal Plants Open in Nevada

Enel North America dedicated two geothermal plants in Churchill County on Wednesday, April 15, according to [mercurynews.com](http://www.mercurynews.com). The plants are located in Stillwater and Salt Wells and will produce 65 MW of power, enough to supply 40,000 households, the article stated. Enel, based in Italy, has renewable energy projects in over 20 countries. These are Enel's first projects in Nevada.

See http://www.mercurynews.com/news/ci_12155316.

Ormat: Stocks Earn Four-Star Ranking

Msnbc.com published an article on Ormat Technologies and what Motley Fool CAPS investors are saying about Ormat stock. The company has earned a four-star ranking in the CAPS community. According to the article, 95% of CAPS members who have rated Ormat believe the stock will outperform the S&P 500 going forward.

See <http://www.msnbc.msn.com/id/30264088/>.

Raser Technologies: Hatch Plant Delivering Power to Anaheim

Press Release—April 16, [Raser's Hatch Plant Begins Delivering Power To The City Of Anaheim, CA](#)

Raser Technologies, Inc. (NYSE:RZ - News), a leader in energy technologies, announced that the Hatch Geothermal Power Plant, Beaver County, UT, began delivering clean, renewable electricity to the City of Anaheim, California today.

The Hatch Plant, named after U.S. Senator Orrin Hatch of Utah, is expected to produce 10 to 11 megawatts (MW) of geothermal power, enough to light up about 9,000 homes in Anaheim, when fully operational. The City of Anaheim signed a 20-year power purchase agreement to receive electricity from the Hatch Plant.

Brent M. Cook, CEO of Raser, said, "We are very pleased to have achieved yet another milestone in the development of this giant innovation in power plant design."

The Hatch Plant sits on a large geothermal resource leased by Raser, a portion of which is estimated by independent geological engineers to have more than 230 MW of geothermal power potential, a resource large enough to power one-third of the homes in Utah.

See <http://www.rasertech.com/news.php> and <http://www.forbes.com/feeds/ap/2009/04/16/ap6301957.html>.

Raser Technologies: UTC Purchase Agreements Restructured

Press Release Highlights—April 16, [Raser Technologies Obtains Deposit Refund of \\$7 Million Through Restructure of UTC Purchase Agreements](#)

Raser Technologies, Inc. (NYSE: RZ), a leading energy technology company, announced today that it has restructured its purchase agreements with subsidiaries of United Technologies Corp. (NYSE: UTX). As part of the restructured agreements, Raser obtained a refund of more than \$7 million that had previously been deposited in connection with orders of PureCycle(R) power systems. Raser will continue to have a preferred

relationship for the generating units with United Technologies' Pratt & Whitney Power Systems (PWPS), which recently assumed the management of the PureCycle power system product line from UTC Power, subject to certain conditions and timeframes. PWPS will maintain a minimum inventory of 50 of the modular units for Raser's planned geothermal power projects through 2009. The restructured agreements should help Raser to continue to pursue its rapid deployment strategy and reduce cash committed to deposits for equipment.

Raser is completing the well field and ramp up process for its first commercial geothermal power project using the PureCycle binary cycle geothermal power generating units.

Brent M. Cook, CEO of Raser said, "We are grateful for our strong partnership with PWPS and appreciate their commitment to helping us develop these geothermal power plants. They continue to be very supportive and stand behind their modular units, which continue to perform at higher levels than expected."

See <http://www.stockhouse.com/News/USReleasesDetail.aspx?n=7278034>.

Renewable and Climate Change News

Plenty Magazine Highlights Geothermal Developments

An article in *Plenty* magazine features three recent developments in the geothermal world.

First, while exploring potential geothermal sites, drillers tapped into a magma chamber in Hawaii. This rare and ancient discovery could help geologists discover how continents form.

Second, Enel North America's two new plants in Nevada were featured in the article. The plants have a production capacity of 65 MW.

Third, the article pointed to vast potential in the Rift Valley in East Africa, where studies have reported about 4,000 MW potential.

See <http://www.mnn.com/earth-matters/stories/surprising-magma-find-captivates-scientists>.

in Africa, where geothermal energy production has long been viewed as a promising but far off technology, it may have just gotten a big boost. Preliminary studies, reported at the climate talks in Poznan, Poland, have found that the Rift Valley in East Africa could develop about 4,000 MW of electricity. Historically, geothermal energy has routinely been hindered by the high costs of drilling. With data as overwhelmingly positive as this, however, geothermal developers may finally start to sniff out a business plan for Africa.

Shades of Green Segment to Feature Solar, Geothermal, and Hydropower

Shades of Green, which airs nationally on Discovery Channel, is launching a new segment on solar, geothermal, and hydropower energy sources, according to 1888pressrelease.com. The segment will inform and educate the public on alternative energy resources and on how efforts from many energy resources working together will reduce dependence on fossil fuels. "Once the public realizes there are alternatives out there, they will be more inclined to make the switch from conventional energy methods," senior producer Ricky Wilson told press.

See <http://www.1888pressrelease.com/new-segment-dedicated-to-solar-geothermal-and-hydropower-t-pr-113504.html>.

State News

California: UC Davis Receives \$3m for Geothermal, Wind, Biomass, and Solar Programs

The California Energy Commission will award \$3 million to the University of California in Davis to coordinate three existing renewable energy programs on biomass, geothermal, and wind energy, and a fourth program that will focus on solar power, according to UC Davis's Web site. As the administrative center for these programs, the new California Renewable Energy Collaborative will assess resources and technologies, identify barriers, advise the California Energy Commission on strategic planning for renewable energy development, and distribute research findings to the public.

The new California Renewable Energy Collaborative will unite the California Wind Energy Collaborative, <http://cwec.ucdavis.edu/>; the California Biomass Collaborative, <http://biomass.ucdavis.edu/>; the California Geothermal Energy Collaborative, <http://cgec.ucdavis.edu/>; and the California Solar Energy Collaborative, http://www.jacobsschool.ucsd.edu/news/news_releases/release.sfe?id=832. The California Geothermal Energy Collaborative was formed in 2004 and now has over 380 members.

See http://www.news.ucdavis.edu/search/news_detail.lasso?id=9072.

California: IID Water Issues Lawsuit Involves Geothermal Usage

On February 23, a lawsuit was filed against the Imperial Irrigation District pertaining to water issues. This involves use of water in the Imperial Valley for geothermal projects. According to the lawsuit, Abatti et al v. Imperial Irrigation District et al, the Imperial Irrigation District "has existed to provide water to its largely agricultural population" . . . but "rather suddenly and with minimal explanation, the district has reversed course and placed farmers last in priority for water." The lawsuit states the use of the water for geothermal industrial purposes is an "improper use of agricultural water."

"This new Distribution Policy was adopted in violation of the California Environmental Quality Act (CEQA), and is also arbitrary and capricious under the state's Administrative Procedure Act," states the lawsuit. "In short, IID took water that is supposed to be used for agricultural purposes, and reallocated it without authority or consent to other uses without regard for the legality or the consequences of its actions"

The lawsuit goes on to say, "Plaintiffs and Petitioners seek to enforce three important rights affecting the public interest. First, IID was formed to provide water to farmers within its boundaries, and Plaintiffs and Petitioners seek to compel IID to continue to serve that public function benefiting all such farmers within the district. Second, by confirming that the IID's water rights are appurtenant to the land, the present action confers benefits on all farmers well in excess of the value of any of their property. Third, the present action benefits the public generally by compelling IID to comply with the law and funny analyze the impacts of its actions on the environment, as required by CEQA. Finally, the costs of bringing this action greatly exceed the individual petitioners' financial stake in the adoption or implementation of the challenged Distribution Policy."

See http://dockets.justia.com/docket/court-casdce/case_no-3:2009cv00350/case_id-290777/.

Nevada: Geothermal Exploration Shows High Temperatures at Columbus Marsh

Press Release—April 17, [Shallow Thermal Anomalies Identified at Columbus Marsh](#)

A joint research project between the Great Basin Center for Geothermal Energy, the Desert Research Institute, and SpecTIR Corp. is assessing the utility of state-of-the-art airborne hyperspectral imagery and shallow 2-meter temperature probes to explore for geothermal resources in the Columbus Marsh area of

Esmeralda County, Nevada. This project, led by Chris Kratt of the Desert Research Institute, is still in progress, but an initial shallow temperature survey has identified two areas with anomalously high temperatures at two-meters depth, one on the north side of the Columbus Marsh playa and the other on the southwestern side at the approximate coordinates of 406,175 E, 4,209,970 N (UTM zone 11N, NAD83). The southwestern anomaly is upgradient from several sulfate and borate occurrences in the playa identified in the hyperspectral imagery. More detailed shallow temperature mapping will be completed over the next few months to determine the size and strength of the southwestern anomaly and its possible relationship to geothermal activity at depth.

A map of the current results and more information on the shallow temperature technique can be found at <http://www.unr.edu/geothermal>.

Nevada: Reid Praises Geothermal Projects on Military Bases

Sen. Harry Reid was instrumental in getting funding for geothermal projects at the Fallon Naval Air Station and Hawthorne Army Ammunition Depot included in the stimulus package, according to nevadaappeal.com. He praised these facilities and other green efforts around the state as he toured the University of Nevada in Reno's new greenhouse complex on April 15. "We have in Nevada enough renewable energy to supply the whole country," Reid told press. "We have the potential of having tens of thousands of jobs."

See <http://www.nevadaappeal.com/article/20090416/NEWS/904159979/1006/NONE&parentprofile=1058>.

Nevada: Boulder City Planning Commission Approves Location of Plant

Boulder City's Planning Commission has approved the proposed site for Geothermic Solution's 250-MW geothermal power plant, according to the *Las Vegas Sun*, in a 5-2 vote. The City Council will consider the recommendation in May; in order to lease the land from the city, the project must be included in the city's Land Management Plan. This would be the first of many plants Geothermic Solution hopes to build, the article stated.

See <http://www.lasvegassun.com/news/2009/apr/16/location-geothermic-plant-bc-gets-planners-ok/>.

New Mexico: State to Pursue Alternative Energy Resources through Stimulus

Lt. Gov. Diane Denish, who earlier this year announced the start of the Rural Economic Recovery Initiative to help nonprofits, schools, and communities seeking federal money, wants the state to pursue funding for alternative energy resources and take advantage of billions of dollars available through the American Recovery and Reinvestment Act. "We have money coming directly to the state of New Mexico: \$1.8 billion sent directly to the state in grant money," Keith told press. "In addition, \$74 billion in competitive federal grant money will be on the streets, probably in the next four to six months."

"One of the things the Recovery and Reinvestment Act does is put a lot of money into research and development for geothermal, for bio mass, for thermal," Denish added. "We are putting together a proposal from the state for some of the competitive monies at the federal levels to make sure we invest in the alternative energy industries here in New Mexico."

See <http://www.istockanalyst.com/article/viewiStockNews/articleid/3196470>.

International News

Australia: Heat Flows Results Move Tasmania Geothermal Project Forward

New positive heat flow results support continued development on KUTh Energy's Tasmania geothermal project, according to [energycurrent.com](http://www.energycurrent.com). The results show a 620-square-mile region having high heat flow greater than 90 milliWatts per square meter. Work is now focusing on a 19-square-mile area of intensified high heat flow.

See <http://www.energycurrent.com/index.php?id=3&storyid=17401>.

Australia: Two Geothermal Projects Granted \$7m Federal Funding

Two geothermal projects will receive \$7m apiece in federal funding, according to *The Age* online. MNGI will drill at Paralana in South Australia's northern Flinders ranges, while Panax Geothermal will drill on the Limestone Coast on South Australia's east coast.

"The successful outcome of our grant application is regarded by the Panax team as recognition of the overall merits and scope of the Penola Project, which is part of the broader Limestone Coast Geothermal Project area," managing director Bertus de Graaf told press. "The quality and the advanced status of the Penola Project is underpinned by a Measured Geothermal Resource of 11,000 PJ, the largest known in Australia." Panax seeks to make the Penola Project the first grid-connected commercial plant in Australia.

See <http://www.istockanalyst.com/article/viewiStockNews/articleid/3199685> and <http://news.theage.com.au/breaking-news-business/hot-rocks-projects-get-14m-boost-20090420-ackw.html>.

Chile: Geothermal Development May Come to El Tatio Geysers

An article in the *Economist* addresses a question currently on the minds of several parties regarding El Tatio, the southern hemisphere's largest geyser field, located in Chile. Geothermal developer Geotrmica del Norte plans to drill four exploratory wells, each between 2,000 and 2,500 m deep. Eventually, power produced at the sites would go to power the local mines that produce 35% of the world's copper. Parties both for and against the idea are now working out what would be best for villagers, the environment, the mines, and all involved.

Scientists are interested in the site because of its biological conditions. Philip Bennett of the University of Texas at Austin says the conditions could be similar to those in which life first evolved on Earth, according to the article. Photosynthesizing bacteria in the geysers have been found to change dissolved arsenic from a form that is difficult to remove from groundwater into one that more readily sticks to soil. Bennett says that geothermal drilling will reduce pressure in the geysers, endangering the habitat of the bacteria that thrive only in the fastest-flowing areas.

See http://www.economist.com/world/international/displaystory.cfm?story_id=13522111.

Indonesia: EDC Branch Identifies Four Sites for Geothermal Exploration

Energy Development Corporation (EDC)'s representative branch in Indonesia has identified four locations for potential preliminary geothermal exploration, according to energy-business-review.com. "There is a change of rules of the ball game [there]. One hundred percent foreign-owned corporations can now do

geothermal activity. We registered, and we're sending teams there for exploring," Paul Aquino, EDC president and chief executive officer told press.

See http://www.energy-business-review.com/news/edc_expands_into_indonesian_geothermal_market_090420.

Indonesia: ADB and JBIC Fund Geothermal Project

The Asia Development Bank (ADB) and the Japan Bank for International Cooperation (JBIC) provided funding for the Lahendong geothermal power project, reported new.xinhuanet.com. Geothermal energy in Lahendong/Tompaso will have up to 200 MW of capacity. The 20-MW PLTP Lahendong unit 1 has operated since August 2001, while units 2 and 3 were launched on April 15 by the Energy and Mineral Resources Minister Purnomo Yusgiantoro.

See http://news.xinhuanet.com/english/2009-04/15/content_11191173.htm and <http://www.tempointeractive.com/hg/nasional/2009/04/14/brk,20090414-170257,uk.html>.

Philippines: EDC Looks to Expand Geothermal Assets

Energy Development Corp. (EDC) plans to raise money for additional geothermal acquisitions, according to bworldonline.com. The company is looking at projects adding up to 300 MW capacity at Tanawon in Sorsogon, Nasulo in Negros Oriental, and Mindanao III in Cotabato. They also may purchase government power assets adding up to 455 MW capacity to be sold by the Power Sector Assets and Liabilities Management Corp.

See <http://www.bworldonline.com/BW041809/content.php?id=044> and <http://www.bloomberg.com/apps/news?pid=20601080&sid=aFlUmYmrRF9U&refer=asia>.

Notices

FOA for EGS Component Research and Development/Analysis, DOE (April 30)

The Department of Energy is offering a Financial Assistance Opportunity, #DE-PS36-09GO99018, for Enhanced Geothermal Systems Component Research and Development/Analysis. Application due date is April 30, 2009 at 11:59pm EST. Grant Officer is Genevieve Wozniak, phone 303-275-4942, e-mail go.geothermal@go.doe.gov.

From DOE:

Initial estimated total funding for this award is listed at \$10,000,000 in FY'2009; with additional anticipated funds of \$25,000,000 in FY'2010 and FY'2011, subject to change and Congressional appropriations. Domestic applicants are eligible to apply including institutions of higher education, non-profit entities (as described in section 501(c)(4) of the Internal Revenue Code of 1986), for-profit private entities, State/Local Governments, and Indian tribes. DOE and non-DOE Federally Funded Research and Development Centers (FFRDCs), National Laboratories, and federal agencies will be allowed only as subrecipients to any of the previously mentioned entities. Foreign participants will be allowed as subrecipients only to a domestic applicant.

DOE is seeking advanced technology to address key aspects of engineered reservoir creation, management, and utilization identified in the GTP Multi-Year Research, Development, and Demonstration (MYRDD) plan. Projects are sought to develop innovative technology for cost-effective creation, management, and utilization of Enhanced Geothermal Systems (EGS) in reservoir environments. Projects will be evaluated

based on their ability to advance technology toward ultimate, specific target specifications to drive market development of EGS. Teaming between academia, industry, and National Laboratories/Federally Funded Research and Development Centers (FFRDCs) is encouraged.

For a complete description and important information regarding this FOA, visit <https://e-center.doe.gov/iips/faopor.nsf/8373d2fc6d83b66685256452007963f5/026b964d73b0b8b88525756f005dec2a?OpenDocument>. For a PDF of the full FOA, visit [https://e-center.doe.gov/iips/faopor.nsf/UNID/026B964D73B0B8B88525756F005DEC2A/\\$file/Announcement_DE-PS36-09GO99018.pdf](https://e-center.doe.gov/iips/faopor.nsf/UNID/026B964D73B0B8B88525756F005DEC2A/$file/Announcement_DE-PS36-09GO99018.pdf).

FOA for Enhanced Geothermal Systems Demonstrations, DOE (May 14)

GTP has issued a Funding Opportunity Announcement (FOA), DE-PS36-09GO99019, for up to \$10 million in FY2009 and with anticipated additional funds of up to \$39 million in FY2010, FY2011, FY2012, FY2013, and FY2014, subject to change and Congressional appropriations.

Through this FOA, GTP is seeking projects in a variety of geologic formations that will quantitatively demonstrate and validate stimulation techniques for application in that successfully sustain sufficient fluid flow and heat extraction rates for 5-7 years that produce at least 5 MWe per year per project site/geothermal reservoir. GTP will also consider projects to further characterize, stimulate, and validate underutilized geothermal resources, particularly in urban and rural regions with high electricity costs such as Alaska, Hawaii, the eastern U.S., Indian Reservations, etc.

You can find information on and requirements for responding to this Enhanced Geothermal Systems Demonstration at http://www1.eere.energy.gov/geothermal/current_solicitations.html.

Resource Development Opportunity, Rosebud Sioux Tribe, Rosebud, SD

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

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

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

Employment Opportunities

Director of Development, California Operations, CalEnergy

CalEnergy Operation Corporation is an international leader in the development and production of energy from diversified fuel sources including geothermal, natural gas and hydroelectric. CalEnergy is currently looking for a Director of Development for California-based operations.

This individual will direct, coordinate and exercise functional authority over all activities associated with the development of the new geothermal power plants and other platform development opportunities:

- Administers the project construction contract, manages the use of consultants, and has fiscal responsibility for all costs to build the new plants.
- Directs and oversees the integration of the new plants into the current Imperial Valley operations consistent with the organization's policies and objectives. Qualified candidates will have a bachelor's degree in engineering, business administration, or related field or equivalent work experience.
- Eight years experience in managing power plant development and installation projects or power plant operations including three years supervisory responsibilities.
- Excellent oral and written communication skills, including presentation skills.
- Effective interpersonal skills and leadership abilities.

To apply for this position and view a complete job description please visit www.calenergy.com.

Land Development Manager, Major Geothermal Power Company, California

Operating geothermal power plant in Northern California with ongoing expansion initiatives seeks Development Manager to lead the overall development efforts for the business including coordination of activities on a recently-acquired adjacent geothermal lease (820 acres).

The Development Manager will be asked to assume leadership of the current development activities and to manage the overall effort focused on obtaining necessary permits and approvals to begin construction and drilling activities in search of additional steam resources.

Responsibilities will include:

- Coordinate overall permitting effort amongst key regulatory agencies (CEC, BLM, County, etc.),
- Manage lead CEQA/NEPA contractor and ensure timely and quality work product,
- Manage legal counsel to ensure timely and quality advice and coordination,
- Manage and/or engage additional subcontractors as necessary,
- Coordinate with plant Compliance Manager to ensure compliance with all environmental and safety regulations throughout the development process,
- Coordinate with plant Drilling Supervisor to ensure that the drilling program is developed with the overall development timeline, scope and plan,
- Interface with landowner(s) that hold private surface rights to the geothermal mineral lease,
- Review and authorize development invoices, budgets, capital requests, etc., and
- Oversee the ongoing development effort to ensure safe, environmentally-compliant, and cost-effective results.

Contact:

Mike Erney

Project Director - Alternative Energy

The Carmon Group

(216) 328-9060 EXT 102

michaelerney@carmongroup.com

www.linkedin.com/in/michaelerney

Senior Account Manager for Geothermal Energy

A Fortune 100, multi-billion dollar electronics, engineering and renewable energy company seeks a Senior Account Manager responsible for the sales of geothermal renewable energy. This is a newly created position so there are very few walls and the territory will be wide open for this individual. They are seeking an individual with a minimum of 2 years experience in selling renewable energy, specifically sales of geothermal

renewable energy. The candidate basically can live anywhere in the U.S. as long as they are open to travel, by airplane and car.

Our client offers a competitive base salary as well as a lucrative commission structure. Furthermore, they offer full health, dental, and vision benefits (which start day one of employment) as well as a 100% matching 401k plan up to 6% employee contribution, and excellent incentives such as a company car, cell phone, laptop, expenses, and much more.

Contact Information:

Apply to Position AMRE

E-mail resumes to: sherryl@swaffordresources.com

Fax resumes to: 281-858-5852

Senior Director, Business Development, Major Geothermal Company

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

Essential Functions:

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

Education, Experience, and Skills Required:

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

Contact:

Paige Carratturo

Executive Recruiter

Richard Wayne & Roberts

877-236-0899 (direct)

206-855-9746 (fax)

paige@rwr.com

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

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

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

Contact:

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

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

Fax. +504-240-2228

Visit the BCIE Web site, www.bcie.org - www.cabei.org

Project Director, Municipal Clean Energy Project, Alliance to Save Energy

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

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

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

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

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

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

Salary is competitive based upon experience. The Alliance to Save Energy offers a generous benefits package and a comfortable work environment in downtown Washington DC convenient to Metro. Consideration of candidates will begin immediately and continue until the position is filled. The Alliance is an equal opportunity employer.

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

Research Associate II, SMU Geothermal Laboratory

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

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

Apply online at <http://smu.edu/hr/recruit/> search for “geothermal”

Contact: Dr. David Blackwell, blackwel@smu.edu, 214-768-2745

Geothermal Engineering Analyst, National Renewable Energy Laboratory

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

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

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

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

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

Pre-employment drug testing required.

Please visit our website for more information and to apply online: www.nrel.gov/employment/

NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

Sales Manager, Ormat Technologies

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

Position Title: Manager of Sales, Geothermal Development; **Department:** Business Development; **Location:** Corporate Office Reno, NV; **Reports to:** Director, Geothermal Development; **Position Summary:** The Manager of Sales, Geothermal Business Development, will be responsible for the sales and marketing of renewable energy products. The selected candidate will help lead the commercialization and sales efforts for

Ormat's latest geothermal supply of geothermal plant equipment, electrical power generation projects, as well as the supply of engineering and construction services for 3rd Party power projects.

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

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

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

Physical Requirements: Must be able to travel regularly

To apply for the position please send a resume to Chris@redfishtech.com.

Engineer V, Geothermal Experience Preferred, Northern California Power Agency

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

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

Application at www.ncpa.com

Requests for Proposals (RFPs)

RFP for Technology and National Research Priorities, American Recovery and Reinvestment Act

The National Institute of Standards and Technology requests proposals for the Technology Innovation Recovery Act Measurement Science and Engineering Research Grants Program: Providing the Technology Infrastructure to Address National Priorities. Priority research areas include, but are not limited to: Energy, environment and climate change; manufacturing; and physical infrastructure. \$35 million expected to be available, up to 60 awards anticipated. Responses accepted on a continuous basis. For more info, contact Christopher Hunton at christopher.hunton@nist.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46063>. Refer to Sol# 2009-NIST-ARRA-MSE-RESEARCH-01. (Grants.gov 3/16/09)

RFP for Environmental Symposiums, EPA (April 22)

The U.S. Environmental Protection Agency requests proposals for Partnerships to Promote Innovation in Environmental Practice. This initiative will support institutions interested in organizing two symposia over four years to promote sharing and transfer of innovative environmental protection approaches among States, EPA, and other primarily governmental representatives. \$750K expected to be available, 1 award anticipated. Responses due 4/22/09. For more info, contact Scott Fontenot at fontenot.scott@epa.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=45673>. Refer to Sol# EPA-OPEI-NCEI-09-02. (Grants.gov 3/4/09)

RFP for Clean Energy Application Centers, DOE (April 30)

The U.S. Department of Energy requests proposals for Clean Energy Application Centers. Through this RFP, DOE seeks to establish Centers that will support technology transfer of Combined Heat and Power, District Energy, Waste Heat Recovery, and other clean energy systems, along with support for evaluating the economic and environmental value of proposed systems based on these technologies. \$3 million expected to be available, up to 8 awards anticipated. Responses due 4/30/09. For more info, contact Juliana Heynes at heynes@netl.doe.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46189>. Refer to Sol# DE-FOA-0000048. (Grants.gov 3/20/09)

RFP for Geothermal Component R&D, DOE (April 30)

The U.S. Department of Energy requests proposals for Enhanced Geothermal Systems Component Research and Development/Analysis. Through this initiative, DOE seeks project to develop innovative technology for cost-effective creation, management, and utilization of Enhanced Geothermal Systems (EGS) in reservoir environments. \$35 million expected to be available, up to 30 awards anticipated. Responses due 4/30/09. For more info, contact Pete Simon at FY09EGSRsearch@go.doe.gov or go to: <https://e-center.doe.gov/jips/faopor.nsf/UNID/4EDA21A799697B508525756F0061D4FF?OpenDocument>. Refer to Sol# DE-PS36-09GO99018. (Grants.gov 3/4/09)

RFP for Smart Grid, California Energy Commission (April 30)

The California Energy Commission requests proposals for Defining the Pathway to the California Smart Grid of 2020, to conduct Smart Grid research. Through this RFP, the CEC anticipates one award to a team with a utility perspective, another award to a team with a technology vendor or manufacturer perspective. \$1 million expected to be available. Responses due 4/30/09. For more info, contact Tammy Parkison at tparkiso@energy.state.ca.us or go to: http://www.energy.ca.gov/contracts/RFP_500-08-502/. Refer to Sol# 500-08-502.

Request for Renewables, Arizona (April 30)

The Arizona Public Service Company seeks 45,000 MWh (10,000 MWh from solar) from eligible renewable energy resources to meet the requirements of APS's Small Generation Pilot Program. Notice of intend to bid due 4/30/09, final bid due 6/4/09. For more info, contact RenewableRFP@aps.com or go to: <http://www.aps.com/aps/rfp/renewable2009/default.html>. (Green Power Network 4/3/09)

RFP for State Energy Program Formula Grants, DOE (May 12)

The U.S. Department of Energy requests proposals for the State Energy Program Formula Grant. SEP goals include, but are not limited to, increasing energy efficiency, reducing reliance on imported energy, improving

power reliability, and reducing the impacts of energy production on the environment. Lead applicants must be State, Territorial and D.C. Energy Offices that administer the SEP. \$3.1 billion is expected to be available, 56 awards anticipated. Pre-applications due 3/23/09, final proposals due 5/12/09. For more info, contact Sheldon Funk at sheldon.funk@netl.doe.gov or go to:

<http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=45986>. Refer to Sol# DE-FOA-000052. (Grants.gov 3/12/09)

RFP for Carbon Sequestration in Geologic Formations, DOE (May 12)

The U.S. Department of Energy requests proposals for Innovative and Advanced Technologies and Protocols for Monitoring/Verification/Accounting, Simulation, and Risk Assessment of Carbon Dioxide Sequestration in Geologic Formations. Results will help address the future CO₂ management needs of coal based electric power generating facilities. \$24 million expected to be available, up to 24 awards anticipated. Responses due 5/12/09. For more info, contact Juliana Heynes at heynes@netl.doe.gov or go to: <http://www07.grants.gov/search/search.do;jsessionid=3hK5JYWKNMhBW21OpnDmicKC11CvyRwKnyG4ZHk72S2wSNn4K2Zx!802466050?mode=VIEWREVISIONS&revNum=0>. Refer to Sol# DE-FOA-0000023. (Grants.gov 3/23/09)

RFP for Enhanced Geothermal Systems Demonstration, DOE (May 14)

The U.S. Department of Energy requests proposals for Enhanced Geothermal Systems Demonstration. Through this initiative, DOE seeks projects in a variety of geologic formations that will quantitatively demonstrate and validate stimulation techniques that successfully sustain sufficient fluid flow and heat extraction rates for 5-7 years that produce at least 5 MWe per year per project site/geothermal reservoir. \$49 million expected to be available, up to 10 awards anticipated. Responses due 5/14/09. For more info, contact Pete Simon at FY09EGSDemos@go.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/528FF32A5FE2358D8525756F0069DEC3?OpenDocument>. Refer to Sol# DE-PS36-09GO99019. (Grants.gov 3/4/09)

RFP for Western and Territorial Water Marketing and Efficiency Grants, Bureau of Reclamation (May 19)

The U.S. Bureau of Reclamation, Denver Office, announces its intent to request proposals for Challenge Grants: Water Marketing and Efficiency Grants for the American Recovery Reinvestment Act of 2009. This initiative will support projects that bank water, market water, conserve water, or generally make more efficient use of existing water supplies. Projects must take place in AZ, CA, CO, ID, KS, MT, NE, NV, NM, ND, OK, OR, SD, TX, UT, WA, WY, AS, GU, CNMI, or the VI. As of 3/14/09, the anticipated RFP release date or funding amounts had not been posted. Proposals due 5/19/09. For more info, contact Stephanie Bartlett at sbartlett@usbr.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=45930>. Refer to Sol# 09SF811499. (Grants.gov 3/10/09)

RFP for Energy Efficiency and Conservation Block Grants, DOE, American Recovery and Reinvestment Act (May 26 and June 25)

The U.S. Department of Energy request proposals for Energy Efficiency and Conservation Block Grants (EECBG). This program will provide financial assistance to eligible states, cities, counties and Indian Tribes to create and implement strategies to reduce energy use and fossil fuel emissions, and improve efficiency in the building, transportation, and other appropriate sectors. Areas of interest include, are not limited to: Development of efficiency and conservation strategies and programs for buildings and transportation, technical consultant services; building energy audits; energy efficiency retrofits; building codes programs;

reduction and capture of methane and greenhouse gases; traffic signals and street lighting; and renewable energy technologies on government buildings. \$3.1 billion expected to be available. Applications from States due 5/26/09. Applications from Local Governments and Tribes due 6/25/09. For more info, contact Lisa Kuzniar at lkuzni@netl.doe.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46340>. Refer to Sol# DE-FOA-0000013. (Grants.gov 3/26/09)

RFP for Community Economic Development, Department of Health and Human Services (May 28)

The U.S. Department of Health and Human Services requests proposals for Community Economic Development (CED) Projects. CED supports Community Development Corporation efforts to assist community economic development activities designed to address the economic needs of low-income individuals and families through the creation of employment and business opportunities in low-income communities. CED focuses on industries that have viable short and long term job outlooks and present no obvious long term risks. One recommended strategy for sustaining growth is creating jobs in high growth sectors which include, but are not limited to, Recycling, Renewable or Alternative Energy, Transportation or Advanced Manufacturing. \$29.1 million expected to be available, up to 47 awards anticipated. Responses due 5/28/09. For more info, contact Rafael Elizalde at OCSGRANTS@acf.hhs.gov or go to: <http://www.acf.hhs.gov/grants/open/HHS-2009-ACF-OCS-EE-0034.html>. Refer to Sol# HHS-2009-ACF-OCS-EE-0034. (Grants.gov 3/9/08)

RFP for Rural Energy Audits and Renewable Energy Development, DOA, American Recovery and Reinvestment Act (June 9)

The U.S. Department of Agriculture requests proposals for the Rural Business Enterprise Grant Program. USDA seeks proposals from eligible entities to provide energy audits and renewable energy development assistance for agricultural producers and rural small businesses. Individual awards NTE \$100K. Responses due 6/9/09. For more info, go to: <http://www.rurdev.usda.gov/rbs/>. Refer to Sol# RDBCP-09-RBEG-ARRA. (Grants.gov 3/27/09)

RFP for American Recovery Program, Department of Commerce (June 30)

The U.S. Department of Commerce, Economic Development Administration (EDA) requests proposals for the EDA American Recovery Program, for projects that advance economic growth by assisting communities and regions experiencing chronic high unemployment and low per capita income to create an environment that fosters innovation, promotes entrepreneurship, and attracts increased private capital investment. Priority consideration will be given to regions that have experienced sudden and severe economic dislocation and job loss due to corporate restructuring. Applicants may apply for the following programs: 1) Public Works and Economic Development Facilities Program, and 2) Economic Adjustment Assistance Program. Responses due 6/30/10. For more info, including Region-specific contacts, go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=45786>. Refer to Sol# DA03102009RECOVERYACT. (Grants.gov 3/5/09)

RFP for Green Jobs Training, DOL, American Recovery and Reinvestment Act (June 30)

The U.S. Department of Labor announces its intent to request proposals for Recovery Act Competitive Grant Opportunities. DOL anticipates \$500 million will be targeted at research, labor exchange, and job training projects that prepare workers for careers in energy efficiency and renewable energy as defined in the Green Jobs Act: Energy efficient building, construction, and retrofitting; renewable electric power; energy efficient and advanced drive train vehicles; biofuels; deconstruction and materials use; energy efficiency

assessment for residential, commercial, or industrial sector, and manufacturing of sustainable products using sustainable processes. \$250 million will be targeted at other high growth and emerging industry sectors. DOL intends to post the RFPs no later than 6/30/09. For more info, go to: <http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46337>. (Grants.gov 3/26/09)

RFP for Environmental Implications of Emerging Technologies, NSF (September 15)

The National Science Foundation requests proposals for Environmental Implications of Emerging Technologies, for research to develop and test the environmental effects of new technologies. Areas of interest include, but are not limited to: The development and refinement of sensors and sensor network technologies; innovative production processes, waste reduction, recycling, and industrial ecology technologies; and evaluation of the effect of increased usage of renewable resources on water supply and land use. Individuals awards generally NTE \$80K each. Responses due 9/15/09. For more info, contact Paul Bishop at pbishop@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030. Refer to Sol# PD-09-1179. (Grants.gov 3/23/09)

RFP for Energy for Sustainability, National Science Foundation (September 15)

The National Science Foundation requests proposals for the Energy for Sustainability Program. This program supports research and education in energy production, conversion, and storage, and is focused on energy sources that are environmentally friendly and renewable, including solar, wind and biomass. Average individual awards \$100K. Responses due 9/15/09. For more info, contact Trung Nguyen at tnguyen@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026. Refer to Sol# PD-09-7644. (Grants.gov 3/6/09)

RFP for Thermal Transport Processes, National Science Foundation (September 15)

The National Science Foundation requests proposals for the Thermal Transport Processes Program, for engineering research aimed at gaining a basic understanding of the microscopic and macroscopic levels of thermal transport phenomena (heat and mass transfer) underlying energy conversion and conservation, the synthesis and processing of materials, cooling and heating of infrastructure and equipment, and more. An active understanding of thermal transport in energy conversion and conservation processes is vital to reduce the nation's dependence on petroleum. Awards NTE \$100K. Responses due 9/15/09. For more info, contact Theodore Bergman at tbergman@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367. Refer to Sol# PD-09-1406. (Grants.gov 3/9/09)

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

The Los Angeles Department of Water and Power (LADWP) has issued a rolling request for proposals (RFP) designed to seek renewable energy proposals on a continuous basis throughout the year. The rolling RFP calls for proposals for approximately 1,000 GWh per year of renewable energy resources such as solar, wind and geothermal power. This amount represents nearly 4% of LADWP's power sales.

LADWP is looking to acquire renewable energy resources through either immediate ownership of power generation facilities or through long-term power purchase agreements. Under the terms of the new RFP, green power providers can submit their proposal anytime throughout the year. LADWP will open and consider the proposals on a monthly basis, and could then begin evaluation and negotiation of a particular project right away.

LADWP says it will give preference to proposals that offer immediate facility ownership or to long-term PPAs that have an ownership option. Additionally, LADWP is targeting solar projects located in the high deserts of California, close to LADWP's existing transmission system. The application deadline is March 11, 2010.

Upcoming Events

Trainings for Geothermal Leasing on Federal Lands, BLM and U.S. Forest Service, April 21 - June 11

The Bureau of Land Management and the U.S Forest Service will be holding seven regional trainings for geothermal industry members across the Western U.S through April, May, and June 2009. The trainings will provide an understanding of the process involved in leasing geothermal resources on Federal lands and will describe the implications of the recently completed Programmatic Environmental Impact Statement (www.blm.gov/geothermal_eis). Each training session will be three hours in length. Staff from the PEIS team will be present at all meetings. The trainings are free of charge and do not require registration.

Dates, times and locations of the trainings are as follows:

Portland, OR. Tue Apr 21. 9 am - noon. Scottish Rite Center, Candidates Room, 1512 SW Morrison, Portland, OR 97205

Boise, ID. Wed Apr 29. 1 pm - 4 pm. Residence Inn Boise West, Conference Room, 7303 West Denton St, Boise, ID 83704

Reno, NV. Tue May 5. 1 pm - 4 pm. Evelyn Mount Northeast Community Center, Tuscarora Room, 2nd Floor, 1301 Valley Road, Reno, NV

Sacramento, CA. Wed May 13. 1 pm - 4 pm. California Energy Commission, Hearing Room A, 1516 Ninth Street, Sacramento, CA 95814

Anchorage, AK. Wed Jun 3. 1 pm - 4 pm. Alaska Energy Authority, Boardroom, 3rd Floor, 813 W Northern Lights Blvd, Anchorage, AK 99503

Salt Lake City, UT. Thu Jun 11. 1 pm - 4 pm. Sheraton, Executive B Room, 150 West 500 South, Salt Lake City, UT 84101

For further information on the trainings, please contact Andrew.gentile@empci.com or 415.544.0440.

Seminar on Engineered Geothermal Energy, EGS Energy, April 21 (London)

In association with the Engineering Group of The Geological Society, EGS Energy invites you to attend an evening Seminar on engineered geothermal systems ("EGS").

The electricity and heat produced by an EGS can be on a large scale, base-load available, renewable, virtually emissions free, and will have a small physical and environmental footprint. The technology is proven and is ready for application in several parts of the world.

The UK did pioneering work in 1980s, and the resulting study indicated that the UK has the potential for producing a significant amount of energy using this technology. In view of the availability of this technology, the current status of increasing energy demand and the vast potential for the UK, it was felt that

a seminar was necessary to inform the general public and the industry of the advantages of exploiting this source of renewable energy.

The Seminar will involve:

- a review of the economics of EGS by Professor Jefferson Tester, author of the 2007 industry defining MIT Study on EGS for the U.S. Government;
- the current status of the technology by Roy Baria who has over thirty years' experience of operating EGS;
- commercially developed EGS plant in Germany by Dr Joerg Baumgaertner; the only commercial EGS power plant in the world;
- the effect of the MIT report and the take up of EGS by commercial companies in the U.S. by Susan Petty who is President of AltaRock, Inc.; and
- the technology from the Industrial perspective by Lucien Bronicki, CEO of ORMAT Technologies, Inc., the geothermal power business.

The Date and Time: Tuesday 21 April 2009 at 5.30pm.

The Venue: The Geological Society, Burlington House, Piccadilly, London SW1V 0JU.

The Seminar is free. Places are limited and there is likely to be considerable interest, so please register you wish to attend by sending an email with your details to the Convenor of the Seminar, Guy Cassidy - guy.cassidy@jacobs.com.

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

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

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

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

Geothermal Heat Pump Workshop, April 29-30 (Salt Lake City, UT)

The Utah Geothermal Working Group, the Utah State Energy Program and SoundGT are sponsoring a Geothermal Heat Pump Workshop April 29-30 in Salt Lake City. This workshop is part of the Geothermal Resources Council's (GRC) Educational Series.

The workshop is also sponsored by the American Public Power Association (APPA), the Great Basin Center for Geothermal Technology, the National Rural Electric Cooperative Association (NRECA), the SMU Geothermal Laboratory, the U.S. DOE's Geothermal Technologies Program, and Western Area Power Administration (WAPA).

The target audiences for the workshop are interested parties and utility staff who want to learn about geothermal heat pumps, to compare them with other resource options, or to learn how to improve on existing programs. Through presentations, panel discussions, case histories, and demonstrations, attendees will learn about:

- Cost effectiveness tests
- Case histories of GHP systems

- New drilling and installation techniques
- Loop leasing and other business services
- Products and services available
- Permitting requirements and other issues

For the agenda, registration, and other information, visit www.geothermal.org.

Colorado Geothermal Working Group Meeting, April 30 (Salida, CO)

From Colorado Geothermal Working Group:

April 30, 2009 at the SteamPlant Event Center in Salida, Colorado (www.salidasteamplant.com). The Colorado Geothermal Working Group maintains a focus on all categories of geothermal energy including electricity production, direct use and district heating, and ground source heat pumps/geo-exchange. The intent of our meeting on April 30 is to review projects already underway, and explore opportunities for new project development.

Morning sessions on Thursday April 30 will explore how hot waters (i.e. hot springs) are being used to heat buildings, spas and greenhouses in the region. Afternoon sessions will discuss what is known about the geothermal basins, and current efforts to produce electric power or expand uses of hot water. An evening presentation by recognized expert John Lund of the Geo-Heat Center, Oregon Institute of Technology, will describe a range of geothermal direct use and district heating systems throughout the U.S.

Potential Exhibitors - we've arranged for ten 6' tables around the perimeter of the meeting room for you to share information about geothermal products and services. Please let me know if you'd like to reserve a table.

On Friday May 1, Fred Henderson will lead a tour of Mt. Princeton for those interested in learning about plans for Colorado's first geothermal electric generation project. Mt. Princeton Geothermal LLC plans to begin thermal gradient drilling over the next month - the first drilling of this type in the Arkansas River valley since 1975. The tour will begin with breakfast at Mt. Princeton Hot Springs, Friday morning at 8am, followed by a carpool tour.

Our meeting location, snacks and lunch on April 30 are sponsored through the U.S. Department of Energy grant to support development of our geothermal resources in the state. Please arrange for your own travel and lodging. We've secured a reduced \$79 room rate at the Holiday Inn Express in Salida; call 1-800-823-8753 (<http://hiesalida.com>) and let them know you are with the Colorado Geothermal Working Group.

Please RSVP to John Gitchell, John@SustainableBusinessSolutions.net for both April 30 and May 1 Mt. Princeton Tour if you are planning to attend.

GEA: Geothermal Project Showcase, Newseum, May 6 (Washington, DC)

The Geothermal Energy Association's "Geothermal Showcase" will be held at the Newseum, May 6, in Washington, DC, from Noon until 5pm. Leading companies will take you to visit their geothermal power projects under development in the U.S around the world. Ormat, UTC Power, Enel North America, ThermaSource, Western GeoPower, Nevada Geothermal Power, Google, Raser Technologies, Chena Hot Spring Resort, and others will be presenting visual and video footage of new geothermal power projects.

Also, as part of this half-day event, top experts from Southern Methodist University, MIT, and the University of Nevada Reno will join in a discussion moderated by the U.S Department of Energy discussing the potential for geothermal energy to meet future U.S energy needs.

For more information, visit: <http://www.geo-energy.org>.

12th Annual Congressional Renewable Energy + Energy Efficiency EXPO + Forum, May 14 (Washington, DC)

From Sustainable Energy Coalition:

On May 14, the Sustainable Energy Coalition - in cooperation with Members of the U.S. House of Representatives and U.S. Senate Renewable Energy & Energy Efficiency Caucuses - will host the 12th annual Congressional Renewable Energy & Energy Efficiency EXPO + Forum.

This year's EXPO will bring together nearly fifty businesses, sustainable energy industry trade associations, government agencies, and energy policy research organizations to showcase the status and near-term potential of the cross-section of renewable energy (biofuels/biomass, geothermal, solar, water, wind) and energy efficiency technologies. (A list of the participating exhibitors is provided below.)

A morning news conference will feature Members of the U.S. Congress while afternoon speakers will discuss the role sustainable energy technologies can play in meeting America's energy needs.

As Congress, the Administration, the business community, environmental advocates, and American voters search for options to address ways to stimulate the economy, "green jobs," higher energy costs, increased reliance on energy imports, and the potential threat posed by rising levels of greenhouse gas emissions, the EXPO will help address the role that sustainable energy technologies might play.

This will include not only the technical aspects of renewable energy and energy-efficient technologies but also related issues such as economics, jobs potential, environmental benefits, current and near-term market potential, model programs in the public and private sectors, and institutional, financial and legal barriers.

The EXPO is free, open to the public, and no RSVPs are required.

Please Share This Information with Members of Your Congressional Delegation as well as Other Interested Businesses, Organizations, Government Officials, Academic Contacts, Members of the Media, and Individuals.

Where: Cannon House Office Building - Caucus Room
U.S. House of Representatives
Independence Avenue and New Jersey Avenue SE; Washington, DC

When: Thursday, May 14, 2009
9:00 am - 5:00 pm (exhibits open for viewing)
11:00 am - News Conference (featuring Members of Congress to be announced)
12:00 noon - 4:30 pm (speakers to be announced)

For More Information: Contact Ken Bossong, Sustainable Energy Coalition* 301-270-6477 x.23;
kbossong614@yahoo.com

International Geothermal Days Slovakia 2009, May 26-29 (Slovakia)

From the organizing committee: Geothermal Conference and Summer School under the Auspices of the Minister of Environment of the Slovak Republic and the Minister of Economy of the Slovak Republic to be held on 26th to 29th May 2009 in Papierná ka-Slovakia

The idea of the conference is to discuss the situation with respect to the energy and particularly renewable energy issues in the Visegrad Countries, Western and Central/East European countries. From the EC Member States and pre-accession countries, a limited number of experts will be invited as observers. The motto of the event is “National Development of Geothermal Energy Use.” During the Slovakia 2009 – International Geothermal Days, several themes will be introduced and discussed. These are:

- Geothermal District Heating Projects: Technical and Economic Feasibility for Organization in Central European conditions;
- Geothermal Electricity Production: Possibilities, Technical and Economic Feasibility in Central European Region;
- Geothermal Legislation: Organizing Good Legal and Economic Support for Geothermal Energy Development in Central European Region;
- Organization of a Successful Development of Geothermal Project;
- Co-generation Geothermal Projects in Combination with other RES or Fossil Fuels;
- Possibilities for Wider Introduction of Agricultural and Industrial Uses of Geothermal Energy in Central European Countries;
- Geothermal Energy Use in Spa and Balneology Centers in Central European Region

In addition, an International Course on Organization of Successful Development of a Geothermal Project shall be organized with the aim to enable orientation for the full process of geothermal projects development, needed for definition of necessary legal, financial and organizational support and composition of successful development strategies.

For a tentative program and further details, see <http://www.erdwaerme-zeitung.de/meldungen/internationalgeothermaldayslovakia20098743256789.html>.

GEA: U.S. Geothermal Finance and Development Workshop, June 3 (Seattle, WA)

GEA will hold its next in a highly successful series of Finance and Development Workshops in Seattle, WA on June 3. The draft agenda is listed above under the Renewable and Climate Change News section of this update. For more information please go to www.geo-energy.org or contact Kathy Kent at GEA by emailing kathy@geo-energy.org.

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

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

GEA: Geothermal Energy Expo/GRC Annual Meeting, October 4-7 (Reno, NV)

The 2009 Geothermal Energy Expo and GRC Annual Meeting will be held October 4-7 at the Peppermill in Reno, Nevada. For more information about the Geothermal Energy Expo, visit: <http://www.geo-energy.org>.

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



GEA Weekly Update

A newsletter for the geothermal industry written by Leslie Blodgett and Karl Gawell. For more information contact GEA at: 209 Pennsylvania Avenue SE, Washington, D.C. 20003. Phone: 202-454-5261; Fax: 202-454-5265; E-mail: research@geo-energy.org

Geothermal Energy Expo Sponsorship Opportunities

Platinum, Gold, Silver, and Bronze Level Sponsors' Benefits

Platinum Sponsor: \$20,000 (Unlimited)

- Ten minute speaking opportunity at Opening Reception, Sunday evening, October 4, 2009
- Ten minute presentation opportunity in Expo Hall
- Prominent display of name/logo on Expo Guide
- Logo on Geothermal Energy 2009 entry welcome sign, GEA website
- Literature of choice included in delegate bags

Gold Sponsor: \$10,000 (Unlimited)

- Ten minute speaking opportunity during Opening Reception, Sunday evening, October 4, 2009
- Prominent display of name/logo on Expo Guide
- Logo on Geothermal Energy 2009 entry welcome sign, GEA websites
- Literature of choice included in delegate bags

Silver Sponsor: \$5,000 (Unlimited)

- Ten minute speaking opportunity in Expo Hall
- Name and logo on Expo Guide
- Logo on Geothermal Energy 2009 entry welcome sign, GEA websites
- Literature of choice included in delegate bags

Bronze Sponsor: \$3,500 (Unlimited)

- Name and logo on Expo Guide
- Logo on Geothermal Energy 2009 entry welcome sign, GEA websites

Special Item Sponsors' Benefits

Poker tournament - \$10,000 (Exclusive)

- Fun tournament played in 15 minute rounds
- Sponsor receives recognition on GEA website and within Poker Tournament itself
- Advertisements for tournament will include sponsor information

Geo-Cyber Area Sponsorship - \$5,000 (Exclusive)

- Area located within tradeshow hall with two desktop computers with internet connection and printer for use by attendees
- Offers the opportunity for technical and management professionals from around the world to come together and networking/round tables and chairs
- Company logo on signage of the "Cyber Space"
- Company's website set to default for all computer screen savers
- Recognition on signage on Exhibition Hall

Bottled Water Sponsor - \$2,500 (Exclusive)

- Sponsor logo placement on Geothermal Energy 2009 bottled water
- Recognition on GEA website
- Recognition on signage on Exhibition Hall

Expo Aisle Signage Sponsor - \$1,000 (Limit 8)

- Sponsor logo placement on Geothermal Energy 2009 Aisle Banner
- Recognition on GEA website

- Recognition on signage in Expo Hall

Lunches & Breaks Sponsors' Benefits

Expo Luncheon Sponsor, Monday - \$18,000 (Exclusive)

- Sponsor logo on Luncheon tickets
- Signage on buffet tables
- Recognition on signage within Exhibition Hall
- Recognition on GEA website

Expo Luncheon Sponsor, Tuesday - \$18,000 (Exclusive)

- Sponsor logo on Luncheon tickets
- Signage on buffet tables
- Recognition on signage within Exhibition Hall
- Recognition on GEA website

Conference/Expo Afternoon Coffee, Monday - \$8,000 (Exclusive)

- Signage on buffet tables
- Recognition on signage within Exhibition Hall
- Recognition on GEA website

Conference/Expo Afternoon Coffee, Tuesday - \$5,000 (Exclusive)

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Recognition on GEA website

Conference/Expo Morning Coffee, Tuesday - \$3,000 (Exclusive)

- Signage on buffet tables
- Recognition on signage within Exhibition Hall
- Recognition on GEA website

Conference/Expo Morning Coffee, Wednesday - \$3,000 (Exclusive)

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Recognition on GEA website

Variety Items Sponsors' Benefits

Expo Delegate Bags - \$10,000 (Exclusive)

- One color sponsor logo placement on Geothermal Energy Expo 2009 bags to be given out to Expo attendees
- Name and logo on Expo Guide
- Recognition on GEA website
- Recognition on signage in Expo Hall

Neck Wallets - \$5,000 (Exclusive)

- One color sponsor logo placement on Geothermal Energy Expo 2009 neck wallets
- Name and logo on Expo Guide
- Recognition on GEA website
- Recognition on signage on Expo Hall