



GEOTHERMAL ENERGY ASSOCIATION

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National News

Draft Climate Change Bill Brings New Infrastructure to Transportation System

The American Clean Energy and Security Act of 2009, the draft climate change bill released by House Democrats on March 31, calls for an electric vehicle infrastructure for the U.S. transportation system, according to renewableenergyworld.com. The plan would call for Smart Grid technology, and clean electricity would power it. Peak demand reduction technologies such as demand response programs and distributed dynamic electric storage would be part of the system, the article said. Plug-in hybrid electric vehicles (PHEVs), central to the plan, are planned for commercial introduction in 2010.

"I would say we're asking the automotive industry to revolutionize the way they build cars and we're asking the utility industry to make sure we can charge those cars," Mark Duvall, Director of Electric Transportation, Electric Power Research Institute told press. The whole program could take about five years to take off.

See <http://www.renewableenergyworld.com/rea/news/article/2009/04/how-smart?cmpid=WNL-Friday-April10-2009>.

Science Chief Discusses Climate Strategy

From EESI Climate Change News:

On April 8, in an interview with The Washington Post, the top White House science adviser revealed that the Obama administration might agree to auction only a portion of greenhouse gas (GHG) emissions allowances under a national cap-and-trade system. In reference to a 100% auction of allowances, John Holdren, director of the White House Office of Science and Technology Policy, said, "Whether you get to start with that or get there over a period of time is something that's being discussed." This would be a break from Obama's presidential campaign stance, which was to use a 100% auction to create market incentives for companies to reduce GHG emissions. The new position is an effort to gain enough support in Congress to pass a cap-and-trade bill, officials said. Joseph Aldy, special assistant to the President for energy and the environment, said, "The road to success is 60 votes [in the Senate], and so we want to make sure that we're able to address as many members' needs as possible to try to get there."

For additional information see: <http://www.washingtonpost.com/wp-dyn/content/article/2009/04/08/AR2009040802467.html?hpid=topnews>, http://www.bloomberg.com/apps/news?pid=newsarchive&sid=a_HrmY6.PD.E, and <http://www.google.com/hostednews/afp/article/ALeqM5iuIOcz93JsCoYWqybUQ8v0o5x5ug>.

GEA Seattle Workshop Focuses on Geothermal Finance, Technology, and Development

Washington, DC -- The Geothermal Energy Association (GEA) has announced its next Geothermal Finance, Technology, and Development Workshop will be held on Wednesday, June 3, in Seattle, WA at the Washington State Convention and Trade Center. The workshop will bring together leading geothermal developers, finance and investment specialists, government officials, lawyers, and technology experts from around the nation. It is the fourth in a series of sell-out workshops sponsored by GEA.

The day-long workshop is being held in cooperation with the Mayor of Seattle's office and with the support of Gold Level Sponsors Ormat and Pratt and Whitney Power Systems. It will include an update on the U.S. geothermal market and keynote presentations by the Mayor of Seattle, Greg Nickels, and other notable government and industry leaders.

Panels and discussion will include the major items of interest for those interested in developing geothermal projects:

- project development, particularly discussion from leading project developers on new geothermal projects and keys to successful development;
- technology, including a basic tutorial on understanding geothermal resources and technology and discussion on new and future developments in geothermal technology;
- finance, including information on the federal stimulus, the status of federal and state incentives, and approaches to project financing; and
- community/environmental issues and tribal and power company perspectives, with environmental and tribal leaders speaking to geothermal issues and benefits on a local scale

Confirmed speakers include: Karl Gawell, GEA; Greg Nickels, Mayor of Seattle; Senator Adam Kline, State of Washington; Susan Petty, AltaRock Energy; Kevin Wallace, POWER Engineers; Dave Norman, Washington State Geologist; Dave Sjoding, Washington State University; Phil Messer, PBS&J; Ken MacLeod, Western GeoPower; Michael Hayter, Raser Technologies; Dan Schochet, Ram Power; Hank Sennott, Enel NA; Ed Wall, U.S. DOE; Paul Thomsen, Ormat; Halley Dickey, Turbine Air Systems; Lou Capuano, ThermaSource; Charles Baron, Google; Ross Macfarlane, Climate Solutions; Laurie McClenahan Hietter, RMT; Roger Taylor, State, Local & Tribal Deployment, National Renewable Energy Laboratory; Michael O'Connell, Stoel Rives, LLP; Michael Devine, NWB Economic Development Corp; Jonathan Weisgall, MidAmerican Energy Holdings Company; Mark Taylor, New Energy Finance; Tom King, U.S. Renewables Group; CJ Arrigo, Glacier Capital Partners; John McIlveen, Jacobs and Company Securities; Jerry Fish, Stoel Rives; John Pierce, Wilson Sonsini Goodrich Rosati; Kermit Witherbee, U.S. Bureau of Land Management; Bob Fujimoto, U.S. Forest Service; Chad Teply or Mark Tallman, PacifiCorp; Craig Collar, Snohomish PUD; and Steve Ponder, NV Energy.

There will also be attention given to transmission status and outlook for renewable projects, insight on overcoming legal and regulatory hurdles, perspectives from utility companies, and discussion on geothermal power in Washington State.

Registration fees are as follows:

GEA Members \$195 (pricing includes light breakfast, lunch, snack, and workshop proceedings)

Non-Members \$295 (pricing includes light breakfast, lunch, snack, and workshop proceedings)

For more information and to register, visit http://www.geo-energy.org/workshops/GE_Technology_Finance_Development_Workshop_June3.asp.

Company News

Glacier Partners: Partnership Brings Geothermal Dealings to Pritchard Capital

Pritchard Capital Partners has agreed to form a partnership with Glacier Partners Corp., according to *Reuters*. Formerly Glitnir Capital, Glacier Partners was formed to take advantage of financing opportunities in the U.S. geothermal power generation market. In 2008, Glitnir was runner-up for the "Sustainable Deal of the Year" award at the Financial Times' Sustainable Banking ceremony.

Thomas Pritchard, Managing Partner and Founder of Pritchard Capital told press, "Glacier Partners, through Glitnir Bank in Iceland, has a long and successful track record serving the geothermal industry in Iceland and abroad. This partnership further supports our efforts to increase our focus on additional energy-related verticals, especially in the renewable market, while simultaneously expanding our global footprint. We are now more able to offer an expanded array of investment banking products and services, including additional corporate services in finance, loan syndication, equity investments and asset management."

Magnus Bjarnason, Chief Executive Officer at Glacier Partners Corp. told press, "We have an extensive history serving the geothermal sector and offering our clients customized banking services. This expertise, coupled with Pritchard Capital's research, sales and trading, and capital-markets experience, will allow both companies to offer a broader range of banking services to global energy clients. We will also be more effectively positioned to compete against other global banks with energy-focused clients."

See <http://www.reuters.com/article/pressRelease/idUS135487+12-Mar-2009+BW20090312>.

Nevada Geothermal Power: Blue Mountain Mineral Rights Secured

Press Release—April 9, [Nevada Geothermal Power Inc. Acquires Blue Mountain Mineral Rights](#)

Vancouver, British Columbia -- Nevada Geothermal Power Inc. today announced that Desert Valley Gold Co., a wholly owned NGP subsidiary, has acquired the mineral rights to Blue Mountain from Gryphon Gold Corp.'s wholly owned subsidiary, Nevada Eagle Resources (NER). In order to protect access to the geothermal resource it was necessary for NGP to acquire these mineral rights.

On April 1, 2009, NGP paid NER US\$50,000 for 31 claims subject to future production royalties. NGP is required to pay a 2% net smelter return royalty (NSR) from the core claims and a 0.5% NSR on any future precious metal production that is derived from mineral rights located within the area of interest. The area of interest consists of 17 square miles.

"NGP remains focused on developing the geothermal potential at Blue Mountain. We are pleased to have secured the mineral claims in order to secure access to the geothermal resource," stated Brian Fairbank, CEO & President.

See <http://www.earthtimes.org/articles/show/nevada-geothermal-power-inc-acquires-blue-mountain-mineral-rights,781325.shtml>.

Potter Drilling: Article Features Company Founder

An article on allgov.com features Bob Potter of Potter Drilling and his method of drilling using hot water instead of diamond-based drills. Potter got his idea from work on the 1940s Manhattan Project, the article said.

See http://www.allgov.com/ViewNews/Octogenarian_Finds_Geothermal_Solution_90413.

Renewable and Climate Change News

EDIN Projects Kick Off in Virgin Islands, Dominica, and Pacific Islands

Renewable Energy World highlights three pilot projects announced by the International Partnership for Energy Development in Island Nations (EDIN). EDIN was formed in August 2008 as a partnership between Iceland, New Zealand, and the U.S. to increase energy efficiency and renewable energy technologies in island nations. To kick off the project:

- The U.S. will work with the Virgin Islands, building on experience with the Hawaii Clean Energy Initiative
- Iceland will work with Dominica, offering courses in geothermal training for qualified energy institutions following the United Nations University Geothermal Training Program
- New Zealand will work in the Pacific to assess the potential for geothermal electricity generation based on existing knowledge within a number of Pacific Island Nations, including U.S. territories. The assessment is being carried out by New Zealand's GNS Science.

"Islands nations and territories are especially vulnerable to energy price volatility and dependence on foreign oil," EDIN Secretariat Mary Werner told press. "Islands often have abundant renewable resources, including solar, geothermal, wind and ocean energy. Through this collaboration, our countries can help their island economies across the globe to develop clean energy while increasing their energy security and addressing the climate crisis."

See <http://www.renewableenergyworld.com/rea/news/article/2009/04/edin-announces-new-projects-in-the-usvi-dominica-the-pacific>.

New Report Analyzes Geothermal Energy Markets

Geothermal Energy Markets: Technologies and Products Worldwide is a new report analyzing geothermal energy markets, according to pr-inside.com. The 233-page report talks about factors that are driving demand for clean energy sources and explores advances in geothermal technology for electricity generation and geothermal heat pump systems. Globally, geothermal heat pump systems increased in installation by nearly 61% over four years, from 1.065 million units in 2004 to 1.712 million in 2008, according to the article. The report is available from Report Buyer at:

http://www.reportbuyer.com/energy_utilities/alternative_energy/geothermal_energy_markets.html.

See <http://www.pr-inside.com/demand-for-cleaner-energy-drives-growth-r1172381.htm>.

Device Based on Organic Rankine Cycle Will Convert Heat to Air Conditioning

Researchers at Oregon State University are developing a device that can attach to a generator's exhaust and capture otherwise wasted heat, according to forbes.com. This method is based on the organic Rankine cycle used by Ormat Technologies in geothermal electricity generation. The Army is funding the project and plans to use the technology to convert heat to run air conditioners. Air conditioning will protect electronics in fields of battle.

The device is a block of steel with grooves one-fourth of a millimeter wide. A fluid called R245fa runs through the grooves to be heated, expands, and is used to run a compressor.

See <http://www.forbes.com/2009/04/07/heat-army-energy-technology-breakthroughs-heat.html>.

RPSEA Awards Two Geothermal Projects Related to Oil and Gas

The Research Partnership to Secure Energy for America has selected nine proposals that will receive an award under the 2008 Unconventional Resources Program, which focuses on increasing the supply of domestic natural gas and other petroleum resources, and six proposals for an award under the 2008 Small Producer Program, which focuses on technology challenges of small producers.

Two of these are geothermal projects related to oil and gas:

- Electrical Power Generation from Produced Water: Field Demonstration of Ways to Reduce Operating Costs of Small Producers
 - Project Leader: Gulf Coast Green Energy
 - Additional Project Participants: Denbury Resources, ElectraTherm Inc, Dry Coolers Inc., Southern Methodist University, Texas A&M University (GPRI)

- The Environmentally Friendly Drilling Systems Program
 - Project Leader: Houston Advanced Research Center
 - Additional Project Participants: Texas A&M University, Sam Houston State University, University of Arkansas, University of Colorado, Utah State University, University of Wyoming, West Virginia University, Argonne National Laboratory, Los Alamos National Laboratory, TerraPlatforms, LLC, the Environmentally Friendly Drilling Joint Industry Partnership, The Nature Conservancy, Natural Resources Defense Council, New York State Energy Research and Development Authority, Gulf Coast Green Energy, ElectraTherm Inc.
 - The amount that RPSEA will fund for this project is \$2,200,000.

For parties interested, the SMU Geothermal Lab Conference: Geothermal Energy Utilization Associated with Oil and Gas Development will be held June 18–19. Details can be found at: http://smu.edu/geothermal/Oil&Gas/2009/Geothermal_Energy_Utilization.htm.

See

http://www.businesswire.com/portal/site/home/permalink/?ndmViewId=news_view&newsId=20090409005987&newsLang=en,

http://www.businesswire.com/portal/site/home/permalink/?ndmViewId=news_view&newsId=20090409005998&newsLang=en, and <http://www.rpsea.org/>.

New Report Shows Lagging Progress in California Solar Initiative

From Sustainable Energy Coalition/SUN DAY Campaign:

A new progress report from SunCentric Incorporated concludes that the California Solar Initiative program is not gaining the momentum needed to meet its target of 3,000 MW of installed capacity by 2016. This latest analysis contradicts the outlook and conclusions of January's CSI progress report from the California Public Utilities Commission (CPUC), which showed that California installed 158 MW under former California solar programs and the CSI in 2008. According to SunCentric, the CPUC is attempting to make the future outlook for the CSI much better than it is. SunCentric reports that through 2008 the CSI has completed only 105 MW of projects. The figures from both organizations are much lower than the 600 MW of capacity that could have been expected by the end of the second year of the CSI program. To access the full CSI report from SunCentric, click here:

http://www.renewableenergyworld.com/assets/documents/2008/SunCentric_CSI_Report_April_2009.pdf.

See <http://www.renewableenergyworld.com/rea/news/article/2009/04/new-csi-report-shows-lagging-progress>.

State News

Texas: Geothermal Leases Offshore Texas Awarded to Geo Texas

The Texas General Land Office and the School Land Board held a lease sale on April 7 and have awarded three geothermal leases to Geo Texas Co., based in Eugene, Oregon, according to [energycurrent.com](http://www.energycurrent.com). The company was awarded 128,758 acres off the coasts of Galveston, Brazoria, and Matagorda counties. Geo Texas will pay US\$2 an acre bonus and US\$3 an acre annual. When Geo Texas begins to produce electricity, the state's Permanent School Fund will earn a royalty of 2.05% for the first 10 years and 3.8% for years 11 through 30.

See <http://www.energycurrent.com/index.php?id=3&storyid=17265>.

International News

Emerging Energy Research Releases Global Geothermal Analysis

An analysis from Emerging Energy Research called *Global Geothermal Markets & Strategies, 2009-2020* updates the current global geothermal scene. There are now over 9 GW of projects under development, according to [renewableenergyfocus.com](http://www.renewableenergyfocus.com), which would almost double the installed capacity of 10.5 GW developed over the last 30 years. Other findings include sustained development expected in Southeast Asia, New Zealand, Turkey, Chile and East Africa, the study confirmed. In the U.S., with 4.4 GW of confirmed projects the capacity could double over the next five years. The U.S. market is currently challenged by the

economic scene, but carbon and renewable policies, technological advances, and developer forays into new markets are factors that will bring unprecedented growth.

The study is available at http://www.emerging-energy.com/user/GlobalGeothermalMarketsandStrategies200920301315192820_pub/EERGeothermalPromo.pdf.

See <http://www.renewableenergyfocus.com/view/1132/global-geothermal-pipeline-exceeds-9-gw>.

Australia: Geodynamics Proves Viability of Enhanced Geothermal Systems

From EERE Network News:

Geodynamics Limited has claimed success in creating a geothermal reservoir at a geological "hot spot," proving the feasibility of so-called Enhanced Geothermal Systems (EGS). The company's Habanero project in South Australia's Cooper Basin involved injecting high pressure water into a geologic formation where high temperatures were known to exist, thereby fracturing the rock and forming an underground geothermal reservoir. To tap that reservoir required drilling a second nearby well, allowing water to be injected into one of the wells, where it would pass through fractures in the hot rock and be steadily heated until it was extracted again through the second well. In late March, Geodynamics completed a successful flow test using two of its Habanero wells, leading the company to announce that it has successfully achieved its proof of concept. See the EGS page on the DOE Geothermal Technologies Program Web site for an illustration and detailed description of the EGS concept, http://www1.eere.energy.gov/geothermal/enhanced_systems.html.

Geodynamics' closed-loop testing between two of its wells—Habanero 1 and 3—reached a maximum flow of 15.5 kilograms per second (kg/s), and modeling of the reservoir indicated that at flows of 70 kg/s, it would be capable of generating more than 40 thermal MW for 20 years with only a slight drop in temperature. The flow loop test is the result of six years of work, and the next step is to install a pilot power plant that will generate 1 MW of power. Geodynamics intends to install that pilot plant by mid-year, providing power to the nearby town of Innamincka. The company plans to follow that with Australia's first commercial-scale geothermal power plant, which should be operating by 2012. See Geodynamics' press release, <http://www.geodynamics.com.au/IRM/Company/ShowPage.aspx?CPID=1949&EID=70395689&PageName=Geodynamics%20Achieves%20Proof%20of%20Concept>.

Germany: Credit Program to Supply \$80m for Geothermal Projects

According to pr-inside.com, Germany's Federal Environment Ministry, the state-owned KfW Bank Group, and insurance firm Munchener Ruck have launched a new credit program that will support the development of geothermal sources in Germany. Approximately \$80 million will go to geothermal drilling under the program.

See <http://www.pr-inside.com/germany-launches-credit-program-to-r1175930.htm>.

Indonesia: Geothermal Power Goal Set at 5,000 MW Output by 2014

An article from *The Jakarta Post* discusses Indonesia's goal to reach 5,000 MW of geothermal power generation by 2014. This target is part of a presidential decree to see 17% of the nation's electricity generation come from renewable energy sources by 2025. The current renewable supply is at 4.5% of the total electricity package. Geothermal output at 5,000 MW would reduce CO₂ emissions by 82 million tons annually, the article states.

With the government lacking sufficient funds to support investment, development will largely depend on the private sector, according to the article. Meanwhile, laws have shifted responsibility to the local governments which actually own the resources. Current obstacles include the absence of correct procedures; local governments need the authority to create power purchase agreements. Once needed components are set in place, the first new investments can be set up.

See <http://www.thejakartapost.com/news/2009/04/09/over-5000-mw-geothermal-power-2014-%E2%80%93-can-we-make-it.html>.

Nevis: Premier Discusses Geothermal Project with Prospective Financiers

Premier of Nevis Joseph Parry met with representatives from the Export-Import Bank of the U.S., prospective financiers for the construction of the planned geothermal plant on Nevis, according to caribbeannews.com. Representatives Karl Kendal and Masud Hasan were there for a preliminary technical review following West Indies Power's loan application to the Bank.

Kendal told press, "I have given all the assurances that we have worked very well with West Indies Power; that we have done what we had to do in parliament to pass the regulations to make sure we have regulations to control any development of geothermal; that we have come to an agreement [that is] already complete and we will be signing those agreements in the future; that the project has our fullest support and we are behind it 100 percent." He added, "We expect that the Bank will do its due diligence and do all the work that it has to do and eventually would come out in support of the project."

See <http://www.caribbeannews.com/news-15577--35-35--.html>.

Philippines: Geothermal, Hydroelectric Powering Western Visayas

An article on sunstar.com.ph discusses the power supply problem in Western Visayas. The region is turning to geothermal and hydroelectric power to fill the void, and has seen recent events to increase interest in renewable energy, bringing together government, financiers, developers, and more. Geothermal investment in the region is P1.5 billion toward the 30-MW Northern Negros augmentation project in Bago City.

See <http://www.sunstar.com.ph/bacolod/62-megawatt-hydroelectric-power-devt-eyed>.

Philippines: Aboitiz Power to Acquire Tiwi-Makban Geothermal Plants

The Aboitiz Power Corp. will take over two geothermal facilities on May 26, according to gmanews.tv. The group will pay 40% or P8 billion for the 289-MW Tiwi plant and the 458.53-MW Makban plant, the article said. The remaining 60% will be paid over the next 7 years.

See <http://www.gmanews.tv/story/156744/Aboitiz-Power-takes-over-Tiwi-Makban-geothermal-power-next-month>.

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 Tribal Land Feasibility Studies for Efficiency and Renewables, DOE (April 16)

The U.S. Department of Energy requests proposals for Assessing the Feasibility of Renewable Energy Development and Energy Efficiency Deployment on Tribal Lands. Through this initiative, DOE will support feasibility studies in these areas: 1) Implementation of building efficiency measures, including energy efficiency improvements and renewable energy systems for heating or cooling loads, and 2) Development of economically sustainable renewable energy installations. The lead applicant must be an Indian Tribe, Alaska Native villages, Alaska Regional Corporation, Tribal Energy Resource Development Organization, or Tribal Consortia. \$1 million expected to be available, up to 4 awards anticipated. Responses due 4/16/09. For more info, contact Pamela Brodie at pamela.brodie@go.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/A99DF3C019E1EEE285257578006E7EA5?OpenDocument>. Refer to Sol# DE-PS36-09GO99024. (Grants.gov 3/13/09)

RFP for Pollution Prevention Grant Program, EPA (April 17)

The U.S. Environmental Protection Agency requests proposals for the Pollution Prevention Grant Program (P2). P2 supports projects that help businesses identify better environmental strategies and solutions for reducing or eliminating waste at the source. National focus areas include: Greenhouse gas reduction, toxic and hazardous materials reduction, and resource conservation. \$4.1 million expected to be available, individual awards NTE \$180K. Responses due 4/17/09. For more information, including Region-specific priorities and contacts, go to: <http://www.epa.gov/p2/pubs/grants/ppis/2009rfpp2grant.html>. Refer to Sol# EPA-HQ-OPPT-09-01. (Grants.gov 3/12/09)

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 FY09EGSResearch@go.doe.gov or go to: <https://e-center.doe.gov/iips/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 intent 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=3hK5JYWKNMhBW21QpnDmjckC11CyyRwKnyG4ZHk72S2wSNn4K2Zx!-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 trnguyen@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@empsi.com or 415.544.0440.

Federal Grant Workshop, April 14 (Reno, NV)

Senator John Ensign is hosting a federal grant workshop on renewable energy funding opportunities available through the U.S. DOE for firms, non-profits, academicians, and local governments interested in developing renewable energy sources. A representative from DOE's Energy Efficiency and Renewable Energy Office will present information on grant and loan funding opportunities.

The workshop will be held on April 14, 2009 from 9:00 a.m. to 12:00 p.m. at the University of Nevada Reno, Joe Crowley Student Union – Ballrooms B&C.

RSVP at Samantha_hudson@ensign.senate.gov by April 8, 2009. Contact Sam Hudson at 775-686-5770 with further questions.

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 Častá Papiernička—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/internationalgeothermaldaysslovakia20098743256789.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.

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

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

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

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

Details at: http://smu.edu/geothermal/Oil&Gas/2009/Geothermal_Energy_Utilization.htm

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

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