



GEO THERMAL ENERGY ASSOCIATION

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National News

BLM/Forest Service Issue Draft Geothermal Programmatic EIS—Over 200 Million Acres Estimated to Have Geothermal Potential

The Department of the Interior and the U.S. Forest Service have released their Draft Programmatic EIS for Geothermal Leasing (PGEIS). This document examine public lands in 11 Western states to determine whether, and under what conditions, they will be made available for future geothermal leasing and development.

According to the BLM, their analysis has found that “approximately 142 million acres of public (BLM) lands and 106 million acres of NFS lands have geothermal potential.” Not all of these lands will be developed because lands are unavailable for leasing either by statute, regulation, or other authority. “Based upon the proposed closures, the BLM and the FS are proposing to allocate approximately 117 million acres of public lands and 75 millions acres of NFS lands to geothermal leasing...”

Detailed information about the analysis, proposed hearings, and related matters is available from the BLM PGEIS Web site: http://www.blm.gov/Geothermal_EIS.

The BLM/FS will hold public hearings on the draft. The public hearing schedule is:

- July 8, 2008, 5:30 to 7:30 p.m., Anchorage, Alaska; Alaska Energy Authority, 813 W. Northern Lights Blvd.
- July 9, 2008, 5:30 to 7:30 p.m., Fairbanks, Alaska; Fairbanks North Star Borough Library, 1215 Cowles Street.
- July 14, 2008, 5:30 to 7:30 p.m., Reno, Nevada; Washoe County Library – Spanish Springs Branch, 7100 Pyramid Highway.
- July 15, 2008, 5:30 to 7:30 p.m., Salt Lake City, Utah; Salt Lake City Library, 210 East 400 South.
- July 16, 2008, 5:30 to 7:30 p.m., Tucson, Arizona; Pima County Public Library, Dusenberry River Branch, 5605 E. River Road.
- July 17, 2008, 5:30 to 7:30 p.m., Cheyenne, Wyoming; Laramie County Library, Willow Room, 200 Pioneer Avenue.
- July 21, 2008, 5:30 to 7:30 p.m., Boise, Idaho; Boise Public Library, 715 South Capitol Blvd.
- July 22, 2008, 5:30 to 7:30 p.m., Albuquerque, New Mexico; University of New Mexico, Conference Center, Room C, 1634 University N.E.
- July 23, 2008, 5:30 to 7:30 p.m., Helena, Montana; Lewis and Clark Main Library, 120 S. Last Chance Gulch.
- July 24, 2008, 5:30 to 7:30 p.m., Denver, Colorado; PPA Event Center, 2105 Decatur Street
- July 28, 2008, 5:30 to 7:30 p.m., Seattle, Washington; Seattle Public Library, University Branch, 5009 Roosevelt Way, N.E.
- July 29, 2008, 5:30 to 7:30 p.m., Portland, Oregon; Multnomah County Library, Central Branch, 801 SW 10th Ave.
- July 30, 2008, 5:30 to 7:30 p.m., Sacramento, California; California Energy Commission, 1516 Ninth Street.

DOE Announces New Program Manager for Geothermal Program

The Department of Energy office of Energy Efficiency and Renewable Energy (EERE) has announced that Ed Wall will serve as Program Manager for the Geothermal Technologies Program.

Prior to his new position, Wall worked with advanced vehicle technologies and specifically the area of promoting plug-in hybrid electric vehicles (PHEVs). He has advanced intermediate blends testing for biofuels. He recently presided over the completion of the Challenge X competition with Secretary Bodman and partnered with the X-Prize foundation to advance high mileage technologies.

In the Geothermal Program, Wall will lead the national effort to expand geothermal electricity generation through enhanced geothermal systems.

David Rodgers of the EERE and the DOE thank Alan Jelacic for his long-standing commitment to the Geothermal Program. During his time as Program Manager, the program went from being zeroed out to holding promises of supplying up to 10% of U.S. electricity by 2050.

Senators Trade Barbs over Tax Credit Extension Votes, Fails to Achieve 60 Votes Needed

The Senate continued to be at an impasse over passing legislation to extend popular renewable energy tax credits. Senate Majority Leader Harry Reid (D-NV) together with Senators Durbin, Murray, and Schumer wrote Senate Republican Leader McConnell (R-KY) expressing their “deep concern” about the Republican objections to taking up and passing a tax extenders bill, which includes renewable tax credit extensions. Meanwhile, Republicans fired back.

The Reid letter said, in part, “We are writing to express our deep concern about the Republican filibuster that is preventing the Senate from considering H.R. 6049, the energy tax incentives/extender bill. This bill would provide badly needed tax relief for families and businesses and, at a time of record oil prices, would help increase investments in renewable energy initiatives. The only thing more disturbing about the fact that you are blocking this much-needed tax relief is that your statements give the impression you are doing so in order to protect a small group of wealthy investment-fund managers. Given the bill’s importance, we respectfully request that you and other Senate Republicans reconsider your opposition to the legislation and abandon your delaying tactics. “

Meanwhile, the Senate Republican staff of the Energy and Natural Resource Committee sent out a press release for Senator Domenici (R-NM), that said, in part, “Unfortunately, Democrats have chosen to include vital extensions of tax credits for renewable energy set to expire at the end of the year paid for by other tax increases in this partisan package. Senator Domenici’s position on renewable energy tax credits is clear: they will help America move toward a cleaner, more secure energy future, and they create jobs which will help stimulate the economy. He strongly favors their extension. However, there are two ways to pass renewable energy tax credits. The Majority can either choose to do it in the bipartisan the way we always have which has widespread support, or deliberately try to make renewable tax credits a partisan issue which they will exploit for political gain. Unfortunately, they’ve chosen the latter.”

The Senate was scheduled to vote on a cloture motion Monday, June 16, at 5:30pm, but that vote was postponed until Tuesday afternoon at 2:30pm. On June 10 the Senate filed to invoke cloture on H.R. 6049 by a vote of 50-44 (60 votes needed to consider the bill). On June 17 the Senate voted 52-44 on a second cloture motion, again failing to obtain the 60 votes needed. However, Senator Reid made a motion to reconsider that vote, and a third vote seemed likely in the future.

Company News

UTC Power: Innovation Award Recognizes PureCycle® System

Press Release—June 11: UTC Power Receives Innovation Award from National Energy Resources Organization

The National Energy Resources Organization (NERO) last night presented its 2008 annual Innovation Award to UTC Power for its PureCycle® system, an advance in geothermal energy production that taps significant, previously unusable geothermal reserves for domestic, renewable, and continuously available power. UTC Power is a United Technologies Corp. (NYSE:UTX) company.

The NERO Innovation Award recognizes significant technology innovations that provide for cleaner and more affordable production, distribution or use of energy.

Accepting the award for UTC Power at the 2008 dinner in Washington D.C., Ken Fox, Vice President of Onsite Power Solutions said, “We are delighted that NERO has chosen to honor the PureCycle® system. This innovative low-temperature technology will tap previously uneconomical geothermal energy resources around the globe for a cleaner, more secure energy future. It utilizes heat from the earth and is the most dependable form of free fuel and the most constant source of renewable energy available today.”

The PureCycle® geothermal system results from more than six years of research and development work involving UTC Power, United Technologies Research Center and the U.S. Department of Energy. The organic Rankine cycle-based power system is an advanced binary cycle system, driven by a simple evaporation process. It is entirely enclosed, and produces no emissions. The PureCycle® system’s only byproduct is electricity, and its “fuel” – geothermal hot water – is a renewable resource.

PureCycle® geothermal systems have been in operation since 2006 at Chena Hot Springs Resort in Alaska, as a U.S. Department of Energy Geothermal Technologies demonstration project. Chena Hot Springs Resort is the first geothermal project in Alaska and the lowest temperature geothermal resource (165° F) in the world ever used for commercial power generation. Raser Technologies has ordered 200 PureCycle® systems that will have the capability to generate approximately 40 to 45 MW of renewable electrical power.

The PureCycle® system and the Chena project have attracted world-wide attention and have been honored with a U.S. Environmental Protection Agency and Department of Energy 2006 National Green Power Award for on-site generation; Power Engineering magazine named it the 2006 Renewable/Sustainable Energy Project of the Year; and the PureCycle® system was recognized by R&D Magazine as one of the 100 most technologically significant products introduced during 2007.

Ormat Gives Q1 Results, Attracts Investors

Following the company’s Q1 2008 posted results, an article found on *Resource Investor* featured Ormat Technologies. The results showed \$10.1 million in net income for Q1. The company has attracted investors such as Google, Morgan Stanley, and Lehman Bros. through its geothermal power resource developments. It plans to add 100 MW of power generation a year, the article said.

Q1 was strong, with revenues growing 12.4% over last year to \$69.4 million this year. Revenue from geothermal power resource development and electricity generation grew more than 36% to \$59.5 million. Costs fell 16%.

The article gave an overview of Ormat’s current and planned generating projects. There are four geothermal power plants in Nevada, three in California, and one in Hawaii. Internationally, there are two plants in Guatemala, one in Nicaragua, and one in Kenya. Under development, Ormat will be opening three geothermal projects in California, two more in Nevada, one in Hawaii, one in Indonesia, one in New

Zealand, and a second in Kenya. "We expect to add an additional 174 MW by the end of 2009," the article said, quoting CEO Dita Bronicki.

The article also referenced Janco Partners' analyst Vijay K. Singh, who gave several reasons for Ormat's successes in growth and in the investment community. Rising fossil fuel prices and efforts to reduce greenhouse gas emissions have coincided with Ormat's successful track record and expansions, the article said.

For the complete article, visit <http://www.resourceinvestor.com/pebble.asp?relid=43668>

Raser Technologies Signs PPA for New Mexico Plant

Raser Technologies, Inc. has signed a power purchase agreement (PPA) with the Salt River Project Agricultural Improvement and Power District for Raser's Lightning Dock geothermal power plant in New Mexico. (See **Arizona: Geothermal will Help Utility Reach Renewables Goal** under **State News** for more information).

Renewable and Climate Change News

Rebuilt World Trade Center to Use Renewable Power

The New York Power Authority and UTC Power have reached an agreement to provide renewable power for the rebuilt World Trade Center, according to nypa.gov. According to the \$10.6 million agreement, UTC Power will provide equipment for fuel cells to supplement other renewable energy sources powering the buildings.

"One of the most important building projects in the nation will be equipped with space-age energy technology that uses an electrochemical process to produce clean on-site power," Gov. David A. Paterson said, according to the article. "The fuel cells and other measures will help make the new World Trade Center towers an exemplar of environmental sustainability and will signal to the world New York State's commitment to greater energy security and reduced dependence on foreign oil. I can think of few sites in the country where the symbolism of this is more important."

"We are committed to helping make clean energy initiatives at the new World Trade Center site a reality," added Roger B. Kelley, NYPA president and chief executive officer.

NYPA signed an agreement in 2006 to power the buildings at the World Trade Center site using wind power.

For the complete story, visit <http://www.nypa.gov/press/2008/080611a.htm>.

Science Academies Urge 50% CO₂ Emissions Cut by 2050

On June 10, the national science academies of 13 nations--including the United States--said major economies should aim to halve world emissions of greenhouse gases (GHGs) by 2050 and work out ways to sequester GHGs in a wider assault on climate change. At the 2007 G8 summit in Germany, leaders of Germany, France, Britain, Italy, Japan and Canada favored a goal of halving world emissions by 2050. The United States and Russia were opposed. In a statement targeting leaders at the coming Group of Eight (G8) July 7-9 summit in Japan, the science academies of the G8 nations and China, India, Brazil, Mexico and South Africa said, "Progress in reducing global greenhouse gas emissions has been slow. We urge G8+5 leaders to make maximum efforts to carry this forward and commit to these emission reductions." The statement is entitled "Joint Science Academies' Statement: Climate Change Adaptation and the Transition to a Low Carbon Society."

The academies said, "The development of a low carbon society means not merely the replacement of energy sources with less carbon intensive ones, but energy conservation as well. Sustainable consumption requires fundamental changes in all sectors and levels of society, including energy-saving housing, low-carbon transportation and more efficient industrial processes." They also urged work on technologies for capturing greenhouse gases, for instance from coal-fired power plants, and burying them in porous rocks.

For the statement signed by the leaders of the science academies go to:
<http://www.nationalacademies.org/includes/climatechangestatement.pdf>

Source: Environment and Energy Study Institute Climate Change News

Bodman and World Energy Leaders Establish Energy-Efficiency Initiative

U.S. Secretary of Energy Samuel W. Bodman met with other world energy leaders last week to discuss enhancing global energy security and combating climate change, according to *Renewable Energy World*. The officials agreed to launch an energy-efficiency initiative called the International Partnership for Energy Efficiency Cooperation (IPEEC).

The IPEEC will support ongoing work in energy efficiency, will share information on best practices, and will develop public-private partnerships and research and development efforts. The ministers agreed they will "promote research, development and demonstration of new and renewable energy technologies and will facilitate financing for them."

The countries involved are the Group of Eight industrialized countries (G8)—Canada, Russia, France, Germany, Italy, Japan, the United Kingdom, and the United States—as well as China, India, and South Korea.

For the complete article, visit <http://www.renewableenergyworld.com/rea/news/story?id=52745>.

State News

Arizona: Geothermal will Help Utility Reach Renewables Goal

Salt River Project will buy 10 MW of electricity from a geothermal power plant run by Raser Technologies in southwestern New Mexico, according to *azcentral.com*. The utility is working toward a goal of 15% renewable sources by 2025.

"We are ahead of what we had planned at this point," spokesman Scott Harelson told the press. "Geothermal is clean, and that makes it an attractive commodity."

SRP is also planning to purchase another 49 MW of geothermal power from existing partnerships in California, where it already receives 25 MW.

For the complete article, visit <http://www.azcentral.com/arizonarepublic/business/articles/0613biz-srpgeothermal0613.html>.

Nevada: Researchers Locate Geothermal System in Mineral County

Press Release—June 4: [Geothermal Discovery at Rhodes Marsh, Nevada](#)

Direct evidence of an active geothermal system in the Rhodes Marsh area of Mineral County, Nevada, USA has recently been gathered by researchers at the Great Basin Center for Geothermal Energy, Desert

Research Institute and the University of Nevada, Reno. The area was targeted based on the presence of borates on the playa that were mined during the 1870's. Reconnaissance field investigations and mapping of borate minerals with remote sensing techniques led to the identification of warm artesian wells, one of which yielded an estimated reservoir temperature of 155-162°C based on its water chemistry. Subsequent field work identified opalized sands on the east side of the playa.

Additional evidence for a geothermal resource comes from mapping anomalously high temperatures at a depth of 2 meters below the surface; these temperatures are up to 24.5°C compared to background temperatures of approximately 16-18°C. The temperature anomaly occurs in a 5 km long and over 1.5 km wide zone immediately east of the occurrence of opalized sands. The anomaly is elongate in a NW direction. Maps and digital temperature data are available at the Great Basin Center for Geothermal Energy Web site at <http://www.unr.edu/Geothermal/tgrad.html>.

The above mentioned Web site also details recent measurements of shallow temperature anomalies in other areas of the Great Basin, including near Teels Marsh of Mineral County and Tungsten Mountain in the Edwards Creek Valley of Churchill County. Many of the areas described above and on the Web site are available for nomination for inclusion in future Bureau of Land Management geothermal lease auctions.

International News

Australia: Petratherm Receives Grant for China Project

The Australian government approved \$75,000 to Petratherm for a geothermal project in China. The company will assess China's engineered geothermal potential, according to its Web site, and is part of the Asia Pacific Partnership on Clean Development and Climate (APP). The study is well underway and is working with Chinese government institutions.

Petratherm's Exploration Manager Peter Reid, Associate Professor at the University of Adelaide Dr. Martin Hand, and consultant to Petratherm Dr. Wenlong Zang are in Beijing June 9-18 to hold meetings and visit geothermal sites identified by the study.

For news releases from Petratherm, visit <http://www.petratherm.com.au/>.

Nevis: Geothermal Project will Benefit Island and Provide Jobs

Premier of Nevis Joseph Parry and Jr. Minister of Energy, Natural Resources and Environment Carlisle Powell, top Nevis Island Administration (NIA) officials, visited Drill Site Nevis 1, site of a recently discovered geothermal reservoir, on June 10, according to the *Caribbean Net News*.

"I was extremely excited because that's the news I was waiting for. Once I knew that, I know that for the next 5-10 years we are going to really have the revolution in Nevis that we anticipated months ago. People will not believe in the next five years how Nevis has changed and it is just all due to what is happening right here at Spring Hill at the moment," Parry told the press.

"Our next moves include negotiating the Power Purchase Agreement with West Indies Power Limited but before that, the presentation of the draft Geothermal Bill in the House of Parliament in Nevis. [We would] have that passed to make sure that there is a bill to look after renewable energy on Nevis and that we have the wherewithal to go forward and negotiate the Power Purchase Agreement," Powell added.

Construction plans will begin within the next two months, the article stated.

The plant will provide jobs for Nevisians. The Industrial Company (TIC) "will be employing roughly 60 Nevisians on the project," said Chief Executive Officer of WIP Kerry McDonald.

A related article from sunstkitts.com stated that Parry was in North America last week and addressed the geothermal discovery to Nevisians living in Toronto and New York at a town hall meeting.

For the articles, visit <http://www.caribbeannetnews.com/news-8478--35-35--.html> and <http://sunstkitts.com/paper/?asknw=view&asknw=view.view&sun=494418078207132005&an=122837097306112008&ac=Local>.

New Zealand: Government to Fund Low-Temp Geothermal Program

The New Zealand government will fund a low-temperature geothermal research program by GNS Science, stated *Energy Current*. GNS Science will receive US \$1.9 million over the next three years. The program will be part of the government's Energy Efficiency and Conservation Strategy of increasing the direct use of low heat resources by 20% by 2025.

The project has a number of goals in mind, according to the article, including:

- nationwide inventory of low-heat energy sources
- analysis of socioeconomic factors and energy and tax policies
- address technical and scientific areas that will need development
- recommend ways to increase the use of low temperature geothermal resources across New Zealand

The New Zealand government also recently allocated another US \$3 million to investigate the potential of deeper and hotter geothermal resources.

For the complete article, visit <http://www.energycurrent.com/index.php?id=3&storyid=11153>.

Nicaragua: Law Establishes Higher Tariff and Fiscal Incentives for Geothermal

Press Release—June 11: [Polaris Geothermal Inc.: Nicaraguan Congress Approves Law, Law of Exploration and Exploitation of Geothermal Resources amended](#)

Polaris Geothermal Inc. ("Polaris" or the "Company"), (TSX:GEO) a renewable energy producer and its Nicaraguan subsidiary, Polaris Energy Nicaragua S.A. ("PENSA"), are pleased to announce that on June 4, 2008 the Nicaraguan Congress amended the existing Law of Exploration and Exploitation of Geothermal Resources. This amendment is an important step forward since it shows the will of the government to promote new and established investments in this sector.

Tariff Increase

Among the most important changes of the amendment is the establishment of a floor of US cents 8.5 per kWh for power produced by licensed geothermal production companies. If a higher tariff was negotiated with the energy distributor then it would need the regulators' approval.

For PENSA, the amendment is expected to result in an increase in the tariff to at least US cents 8.5 per kWh once it begins generating power resulting from Phase I-MCT (24 MW) and Phase II-MCT (48 MW).

The Law

This law also improves the existing fiscal incentives such as income tax holiday was extended from 7 to 10 years. It also makes sales tax exemptions on goods easier to process with the government agencies.

For new geothermal concessions the law establishes a concession area for exploitation of 20 square kilometers that can be extended by approval of the Ministry of Energy and Mines a further 20 square kilometers if the concessionaire complies with its investment plan and geophysical studies that prove an extension is required. This does not apply to PENSA due to its existing exploitation contract which was approved under a previous law whereby PENSA has a 40 square kilometer concession area.

"We feel very satisfied with these amendments to the law since it clears the way for more investments in this sector which are expected to considerably improve the returns on investment for the existing geothermal concessionaires" said Tom Ogryzlo, CEO of Polaris Geothermal Inc.

Philippines: Buffer Zone Project Gaining Support from Government

Negros Occidental Governor Isidro Zayco wants to move forward on the Mt. Kanlaon buffer zone geothermal project, according to sunstar.com.ph.

The Philippine National Oil Corporation—Energy Development Corporation (PNOC-EDC) project has been opposed by the local church and environmentalists, but Zayco pointed out that Energy Secretary Angelo Reyes approves and that the project would aid the Philippines' energy goals. At the province's Independence Day celebration, Reyes spoke as the guest of honor. "The other kind of independence the Philippines should have is the independence in power," he said.

For the complete article, visit

<http://www.sunstar.com.ph/static/bac/2008/06/13/news/zayco.to.hasten.geothermal.exploration.html>.

Notices and Employment Opportunities

Financial Assistance Funding Opportunity Announcement—U. S. Department of Energy National Energy Technology Laboratory (Applications Due July 10)

Funding Opportunity Number: DE-PS26-08NT00319

Where to Submit

Applications must be submitted through Grants.gov to be considered for award. You cannot submit an application through Grants.gov unless you are registered. Please read the registration requirements carefully and start the process immediately. Remember you have to update your CCR registration annually. If you have any questions about your registration, you should contact the Grants.gov Helpdesk at 1-800-518-4726 to verify that you are still registered in Grants.gov.

Registration Requirements

There are several one-time actions you must complete in order to submit an application through Grants.gov (e.g., obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, register with the Central Contract Registry (CCR), register with the credential provider, and register with Grants.gov). See <http://www.grants.gov/GetStarted>. Use the Grants.gov Organization Registration Checklist at <http://www.grants.gov/assets/OrganizationRegCheck.pdf> to guide you through the process. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in the CCR registration process. Applicants who are not registered with CCR and Grants.gov should allow at least 21 days to complete these requirements. It is suggested that the process be started as soon as possible. **IMPORTANT NOTICE TO POTENTIAL APPLICANTS:** When you have completed the process, you should call the Grants.gov Helpdesk at 1-800-518-4726 to verify that you have completed the final step (i.e. Grants.gov registration).

Microsoft Vista and Office 2007 Compatibility

Grants.gov is currently incompatible with both the new Microsoft (MS) Vista Operating System and the new Microsoft (MS) Office 2007 versions of Word, Excel, and Power Point. In order to create and submit your application to Grants.gov, you must find a computer with a previous version Microsoft Operating System, such as Windows XP. If you attach a file created using MS Office 2007, you will not get an error message when you submit the application, HOWEVER, your entire application will not be able to be processed or accepted at Grants.gov and will not reach DOE. Grants.gov can accept applications with attachments created in MS Office 2007 if the attachments are saved in the prior format. See the

http://www.grants.gov/assets/Vista_and_office_07_Compatibility.pdf for detailed instructions on how to do this. A file created in MS Office 2007 can be identified by the "x" at the end of the file extension, for example "sample.docx" for a Word file. Contact Grants.gov at 1-800-518-4726 with any questions.

Questions

Questions relating to the registration process, system requirements, how an application form works, or the submittal process must be directed to Grants.gov at 1-800-518-4726 or support@grants.gov. Part VII of this announcement explains how to submit other questions to the U.S. Department of Energy (DOE).

Application Receipt Notices

After an application is submitted, the Authorized Organization Representative (AOR) will receive a series of five e-mails. It is extremely important that the AOR watch for and save each of the emails. It may take up to two (2) business days from application submission to receipt of email Number 2.

When the AOR receives e-mail Number 5, it is their responsibility to follow the instructions in the e-mail to log on to IIPS and verify that their application was received by DOE. The titles of the five e-mails are:

- Number 1 – Grants.gov Submission Receipt Number
- Number 2 – Grants.gov Submission Validation Receipt for Application Number
- Number 3 – Grants.gov Grantor Agency Retrieval Receipt for Application Number
- Number 4 – Grants.gov Agency Tracking Number Assignment for Application Number
- Number 5 – DOE e-Center Grant Application Received

The last email will contain instructions for the AOR to register with the DOE e-Center. If the AOR is already registered with the DOE e-Center, the title of the last email changes to:

- Number 5 – DOE e-Center Grant Application Received and Matched

This email will contain the direct link to the application in IIPS. The AOR will need to enter their DOE e-Center user id and password to access the application.

Engineering Manager—Western GeoPower, Inc.

Western GeoPower, Inc. (WGPI) has an immediate opening for a full time Engineering Manager to be located in our Healdsburg, CA office. WGPI is looking for a flexible and entrepreneurial person who can assist in a variety of tasks to grow WGPI into world class renewable power developer/operator. The ideal candidate will possess 5+ years of technical design, project engineering and operational support in the geothermal power industry. Must have geothermal power and experience working in the Geysers and Salton Sea or similar geothermal field. H2S abatement strategies, steam quality, production/injection systems and plant operations are all a plus.

The Engineering Manager will report to the Operations Manager and be responsible for the following key tasks:

- Technical support for Project Permitting
- Technical oversight of the Detailed Engineering Contract (power plant and gathering system)
- Evaluation of Value Engineering and Technical Betterment Projects
- Technical support for Project Construction issues (technical support for WGP's Construction Manager)
- Technical support for New Development Projects
- Technical support for future Plant Operations, Reporting, Plant Optimization, Environmental Compliance, Safety and Training

To apply for the position, please send a Word formatted resume to Redfish Technology Chris@redfishtech.com.

Partnership Opportunity—Denver Federal Center Well Logging Calibration Facility

The United States Geological Survey's (USGS) Central Regional Resources Office manages facilities and is responsible for the Bureau's overall environmental compliance. USGS is required to remove a scientific feature, a set of well logging calibration silos, from the Denver Federal Center property to allow for the transfer of title of such property as necessary for the Denver Regional Transportation District to complete its West Corridor Light Rail System. Specially configured rock within the silos with a known geophysical response can be removed and relocated in new calibration units. USGS is proposing to use the Technology Transfer Authority 15 USC 3710 as amended, to relocate this capability to a new institutional home with the ability to construct or integrate this capability into a silo system that can utilize the granite formations contained in the current silos. A draft Statement of Work outlining the major steps necessary to accomplish the collaborative effort has been prepared and is attached to this notice. USGS estimates that a partner or partners will need to provide funds and or services with an estimated value of \$250,000 to \$300,000.

This is not a procurement; the partner in a Technology Transfer effort contributes funds, equipment and/or in-kind services to the research effort.

*For more information on the science effort contact Marshall Fischer, 303-236-9338; email mpfischer@usgs.gov. For information on Technology Transfer mechanisms contact Julia M. Giller, Technology Transfer Office, (352) 399-2133 or jgiller@usgs.gov. Contracting Office Address: U.S. GEOLOGICAL SURVEY, MANAGEMENT SERVICES BRANCH, P.O. BOX 25046, MS 205, DENVER, CO 80225 Appendix A *

Illustrative Statement of Work

1. Plan, design and construct a geophysical tool calibration facility which incorporates the granite material provided by USGS as part of its design and operation at a location identified and under the management control of the Collaborator.
2. Transport granite material from the Denver Federal Center to Collaborator's designated calibration site for installation. The parties recognize that it may be necessary to utilize construction staging areas for interim periods between periods of phased construction of the calibration facilities.
3. Provide a project schedule for identifying benchmarks or milestones related to the completion of the reestablished calibration facility and commencement of its operations as a scientific venture.
4. Provide a calibration facility operations plan which articulates relevant operations information about the facility including, but not limited to:
 - a. Illustrative examples of the anticipated users of the facility as well as illustrative examples of the types of organizations expected to access this resource,
 - b. Anticipated conditions, requirements, restrictions, etc. deemed necessary to safeguard the facility's integrity as a scientific unit and protect the operational environment, and
 - c. Policy and procedure to ensure reasonable and generally open access to qualified users of the calibration facilities.

USGS recognizes that facility user fees may be necessary to provide for the sustained operations of the facility. However, the Bureau anticipates that fee decisions will fully consider the opportunity to maximize the scientific benefits of this facility and consequently provide, as might be necessary, reduced fees for small businesses, government entities, and non profit organizations. As indicated in the text of the Agreement, for two years following the date of execution of this Agreement, no fees will be assessed for U.S. Government Agencies or Departments to access the reestablished calibration facility.

*Contracting Office Address:
U.S. GEOLOGICAL SURVEY, APS BLDG 53 DFCMS 205 DENVER CO 80225*

Requests for Proposals (RFPs)

RFP for Renewable Energy Certificates—Environmental Protection Agency (June 20)

Request for Proposal SP0600-08-R-0412-0001 REC Solicitation for Environmental Protection Agency (EPA) has been issued.

Contract(s) are anticipated for multiple deliveries. Total contract quantity is 245,000 MWh. Technical data and final pricing proposals are due NLT 11:00 A.M., local Fort Belvoir, VA time on June 20, 2008.

Please Note: For those offerors who submitted a technical proposal under Solicitation SP0600-08-R-0412, all you will need to submit for this solicitation is Attachment I (Supply Plan), Attachment III (Pricing), and a Socioeconomic proposal. For those offerors who did not offer on Solicitation SP0600-08-R-0412 please be sure to submit a complete technical proposal as outlined on page 2 of the solicitation.

Please direct questions to:

Cindy Ralph: 703-767-8566 / cynthia.ralph@dla.mil

Leslie Simpson: 703-767-8536 / leslie.simpson@dla.mil

RFP for Additional Renewable Energy—Arizona Public Service (June 25)

Arizona Public Service (APS) is requesting proposals for new sources of renewable energy generation. The energy sought must provide at least 35,000 MW hours and be available sometime between 2009 and 2013. The Request for Proposal (RFP) includes solar, wind, biogas, landfill gas, biomass, geothermal, hybrid wind and solar, renewable natural gas and hydropower technologies.

Interested parties are encouraged to participate in a bidder's teleconference on Wednesday, June 25, 2008. Additional information about the teleconference and the RFP is available online at www.aps.com/rfp.

The energy procured from this request will help APS meet its growing demand for energy. APS conducted a similar process in 2007 which resulted in several new renewable energy contracts. The most notable is the 280 MW Solana Generating Station, which will be located 70 miles southwest of Phoenix, near Gila Bend, Ariz.

APS currently provides its customers with 131.5 MW of renewable energy, enough to power more than 37,000 homes. With the addition of Solana, APS will provide enough renewable energy to serve 100,000 homes.

APS, Arizona's largest and longest-serving electricity utility, serves about 1.1 million customers in 11 of the state's 15 counties. With headquarters in Phoenix, APS is the largest principal of Pinnacle West Capital Corp. (NYSE: PNW).

RFI for California Geothermal Development—Transmission Initiative (June 30)

As part of the California Renewable Energy Transmission Initiative (RETI), Black & Veatch is identifying individual renewable generating projects in the study area. RETI will use public information sources such as commercial renewable databases, CEC-identified RPS resources, transmission operator queue information, and public lands leasing information to identify projects and their level of commercial interest.

While this process is expected to identify most of the proposed and planned renewable resources, in order to insure the resource modeling is comprehensive and current, RETI is also asking renewable developers assist the modeling effort by providing information about their individual projects on the Request for

Information (RFI) form below. Responding to this RFI is completely voluntary, but participation will help ensure that all planned and proposed renewable projects are properly characterized.

The data request seeks to identify general information regarding proposed and planned facilities. Please provide an appropriate level of detail in your response. For projects where specific data is not provided, Black & Veatch will make assumptions about interconnection location, capital cost, annual generation, and generation profile based on terrain, location, and renewable resource maps based on public information.

In the spirit of transparency regarding assumptions used in the RETI process, please be aware that your response to the RFI will not be confidential, though they will not be publicly posted. Please share as much data as you can, knowing that this is a public process. Incomplete responses are still valuable and welcome. Responses are requested by June 30, 2008. Send them to Tim Mason at Black & Veatch (MasonT@bv.com). For more information about the RETI process go to: <http://www.energy.ca.gov/reti/index.html>, or contact GEA’s Western States Representative, John McCaull, at 530/979-7586 (cell) or email john@geo-energy.org.

Renewable Energy Transmission Initiative
Generator Profile Information

General Information	
Project Owner	
Project Name	
Project Status	
Power sales (PPA? short-list?)	
Expected on-line date	
Development stage (planning, feasibility, under construction, etc.)	
Location	
City, County, State	
Site Map (latitude/longitude)	
Total site acreage	
Site control (owned, leased, option)	
BLM application? Accepted?	
Facility Information	
Technology Type	
Capacity (MW)	
Annual generation (MWh or C.F.%)	
Generation profile (12 x 24)*	
Water use and source	
Transmission Information	
Interconnecting utility	
Expected interconnection substation	
Expected interconnection voltage	
Interconnection status (application, feasibility study, SIS, agreement)	

*Please include an Excel spreadsheet with anticipated hourly generation by month

RFP for Energy Frontier Research Centers—U.S. Department of Energy (Due October 1)

The U.S. Department of Energy requests proposals for Energy Frontier Research Centers (EFRCs) to accelerate the rate of scientific breakthroughs needed to create advanced energy technologies for the 21st century. The EFRCs will pursue the fundamental understanding necessary to meet the global need for abundant, clean, and economical energy. Through this initiative, DOE seeks to bring together the skills and talents of multiple investigators to enable fundamental research of a scope and complexity that would not be possible with the standard individual investigator or small group research project. \$500 million expected to be available, up to 50 awards anticipated.

Responses due 10/1/08. For more info, contact Emiela Bradford at emiela.bradford@ch.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/933104E42D0185E58525742100694C78?OpenDocument>. Refer to Sol# DE-PS02-08ER15944. (Grants.gov 4/4/08)

RFP Climate Change and Sustainability Conferences (Due December 9)

The U.S. Environmental Protection Agency has issued a Broad Agency Announcement for Conferences, Workshops, and/or Meetings. EPA seeks applicants for the planning, arranging, administering and/or conducting of conferences and workshops in areas including, but not limited to: Economics and sustainability; air and global climate change; and technology. \$500K expected to be available, up to 15 awards anticipated. Proposals due 12/9/08.

For more information, contact Bernice Smith at smith.bernicel@epa.gov or go to http://es.epa.gov/ncer/rfa/2008/2008_baa.html. Refer to Sol# EPA-C2008-BAA. (Grants.gov 12/6/07)

Upcoming Events

SMU Geothermal Conference, June 17–18 (Dallas, TX)

Southern Methodist University will put on a Geothermal Conference June 17–18. This international conference specializes in the enhancement of existing oil & gas wells for electrical production. According to SMU, “Geothermal energy can be extracted from the well fluids using newly designed compact turbines with binary fluids. These systems are now sized to fit single wells or multiple wells with an approximate fluid temperature differential of 120°F+ between produced and cooling temperatures. Thus, in the Gulf Coast, temperatures of 225°F or higher are eligible. This electrical production (geothermal energy) is renewable and considered a baseload source and is capable of producing 24 hours a day. This capability gives new life to low yield producers with high water volume and a reason to keep them pumping. Undesirable high water flow geopressure wells become an immediate revenue path if converted to electrical production. With a system installed in Chena Hot Springs, Alaska and another installation going into the Wyoming Rocky Mountain Oil Field Testing Center, the ability to use low temperature fluids is no longer just a concept, rather it’s a reality. New technology, data, and economics will be presented to assist you in developing your company’s renewable energy portfolio using existing wells.

Topics Presented To Include:

- Power Generation Technology Advancements
- Geothermal Resource Exploration and Assessment
- Reservoir Engineering
- Fracturing
- Geopressure Development
- Tight Gas Sands Development
- Well Longevity—Corrosion and Scaling Management

- Enhanced Geothermal Systems – International
- Green Power for Utilities (RECs)
- Economics and Business Plan
- Transmission needs
- Regulations and Leasing
- Financing
- Demonstration Sites

For more information and to read the Call for Papers, visit
http://smu.edu/geothermal/Oil&Gas/2008/Geothermal_Energy_Utilization.htm.

Geothermal Electricity & CHP in Europe: A Technology for Our Future—June 18 (Strasbourg, France)

Schedule:

09:30 Registration

10:00 Welcome Address—B. Sanner (EGEC)

10:10-11:30 Session 1: Technology

- Engine project conclusions: F. Boissier (BRGM)
- Combined Heat & Power: F. Kabus (GTN)
- Enhanced Geothermal System: D. Fritsch (GEIE Sultz)
- Dry steam-flash-binary: M. Antics (GPC IP)

11:30-11:50 Coffee Break

11:50-13:00 Session 2: Case Studies

- Larderello R. Parri (ENEL)
- Unterhaching E. Knapek (prior Mayor of Unterhaching)
- Sultz A. Genter (GEIE Sultz)
- Madrid R. Hidalgo (Petratherm)

13:00-14:30 Lunch Break

14:30-16:00 Session 3: Policy and market

- Welcome to MEPs B. Sanner (EGEC)
- EC Directive: European Parliament position C. Turmes (EP)
- Feed-in tariff in Germany H. Kreuter (GtV)
- EGEC View C. Boissavy (EGEC)

16:15 Departure to site visit “Sultz-sous-Forêts” Plant (A European research program for electrical power generation from a deep enhanced geothermal system) > www.sultz.net

19:00-20:00 Return

Target Groups: Engineers, Communities, Industry, Investors, Project Developers, Energy Suppliers

Languages: English

Organizers: European Geothermal Energy Council – EGEC www.egec.org

Fees: Prior registration required: 40 EUR; Free for EGEC Members and for Students with Identification

The Conference is supported by the European Commission within project RESTMAC in the 6th Framework Program. The responsibility for the conference program is with European Geothermal Energy Council – EGEC only.

GEA “Geothermal 101” Workshop, July 23 (Ritz-Carlton @ Battery Park, New York City)

The Geothermal Energy 101- Finance and Development Workshop will consider geothermal energy from a variety of viewpoints, including a Geothermal Basics Tutorial, US and World Market Review, Financial Issues and Perspectives and a Geothermal project showcase that will span projects in development and new technologies. An all star series of presentations is planned for the day by many of the leading companies

involved in US geothermal development including, ThermaSource, EGS, Inc. MidAmerican Energy, Ormat, Glitnir, US Renewables Group, GeothermEx, UTC Power, Terra-Gen Power, and many more.

We are also proud to announce as lunchtime keynote speakers, the President of Iceland, Olafur Ragnar Grimsson and Director for Climate Change and Energy Initiative for Google.org, Dan Reicher.

Come hear leading experts discuss a fast growing renewable energy industry considered to have massive untapped energy potential. Space is limited, reserve your spot today!

To view the full agenda, or to register, go to http://geo-energy.org/financeWorkshop/work_shop.asp.

Oregon/Washington Geothermal Lease Sale July 24, 2008, Proposed Sale Postponed

The Bureau of Land Management's Oregon/Washington State Office had proposed to hold a geothermal resources lease sale on July 24, 2008.

The proposed sale was for parcels located in the Glass Butte area (Lake County). Upon review of the current planning documents, the District has determined that further studies must be done to be compliant with National Environmental Policy Act (NEPA) requirements. Therefore, the sale has been postponed until further notice.

We are still accepting nominations for future sales. Nominations are not automatically placed on a sale when received, and BLM cannot guarantee that the nominated lands will always be included on a particular sale notice. The parcels must be reviewed for availability and for environmental and cultural concerns prior to being placed on a sale. Sale parcels will normally be configured as requested; however, BLM reserves the right to adjust the parcel size and configuration as needed.

Each nomination must be submitted with a nonrefundable filing fee of \$100 per nomination plus \$0.10 per acre of lands nominated. If a land parcel consists of fractional acreage, please round the land acres up to the nearest whole acre.

*Sale notices, results lists, and Form 32031 will be posted on our Web site at:
<http://www.blm.gov/or/energy/geothermal/index.php>*

If you have questions regarding this notice, please call Donna Kauffman at 5038086162; write to the attention of OR936.2 at the address on this letterhead; or send electronic mail to Donna_Kauffman@or.blm.gov.

California Geothermal Summit, California Geothermal Energy Collaborative, July 30 (Sacramento, CA)

The California Geothermal Summit will be held on Wednesday, July 30, 2008 at the Embassy Suites Hotel, 100 Capitol Mall, Sacramento, CA.

The renewable energy landscape in California is changing.

Your input at this Geothermal Summit is important on issues of research, state and federal policies, RPS goals, climate change impact, and transmission decisions.

Meeting the approaching RPS goals will be a daunting challenge for the state. Also, the AB32 greenhouse gas reduction mandate provides additional opportunities and issues for all renewables. The 2008 California Geothermal Summit will focus on what the future holds for the geothermal community, and how we can more effectively partner with other renewable technologies

Registration Fee - \$85.00

Late Registration Fee after July 21 - \$160
(Limited seating available)

Registration fee is payable by check to the Geothermal Education Office or a Visa or MasterCard credit card. Please note: your credit card statement will show a charge from California Study.

Registration Processing is being handled by Marilyn Nemzer at the Geothermal Education Office. The registration form can be found at <http://ciee.ucop.edu/geothermal/documents/2008CGECSummitFlyer.pdf>. To request a registration form in Word format, send an email to the address listed below. Please return the attached registration form and payment to the Geothermal Education Office using one of the following:

Email: GEO.nemzer@gmail.com
Fax: (415) 435-7737
Mail: 664 Hilary Drive, Tiburon, CA 94920

For general questions concerning the workshop, contact CGEC Administrative Manager Judy Fischette at fischette@sbcglobal.net.

Hotel information and directions will be provided after you register.

Geothermal Technologies Workshop, Western Area Power Administration, August 11-12 (Everett, WA)

Western Area Power Administration (Western) is hosting a Geothermal Technologies workshop. The theme is “Electric Utilities’ Roles in Promoting Geothermal Energy Technologies.” It is cosponsored by the American Public Power Association (APPA), the National Rural Electric Cooperative Association (NRECA), and the Utility Geothermal Working Group (UGWG).

The target audiences for the workshop are utility staff who are interested in learning about geothermal technologies—including geothermal heat pumps (GHP) and geothermal power production—who want to compare them with other resource options, or who want to learn how to improve on existing programs. Through class presentations, case histories, and demonstrations, attendees will learn about:

- Cost effectiveness tests of GHP from the utility and customer perspectives
- Case histories of GHP systems energy savings over conventional HVAC systems
- How GHP programs qualify as energy efficiency programs
- New drilling and installation techniques
- Cost comparisons of geothermal power and other resource options

Georg Shultz the Director, Electric Staff Division for the USDA’s Rural Utility Services (RUS), will give an update on the RUS’s work with cooperatives on promoting geothermal technologies in rural areas.

Workshop fees are \$90 for one day and \$125 for both days. Reduced fees for APPA, NRECA, NWPPA, and State Working Group members and Western Customers are \$60 and \$90. If you wish to attend, please fill out the registration form and send a check to made payable to Utility Forum Connection to:

Utility Forum Connection
PO Box 255
Lincoln City, OR 97367

Questions? Contact Guy Nelson, energyguy@utilityforum.com or (541) 994-4670.

Renewable Energy Philippines 2008, August 28–30 (Manila, Philippines)

This is the First International Exhibition & Conference on Renewable Energy in the Philippines.

Renewable energy is getting more and more attention because of global warming. Renewable Energy Philippines 2008 is a link to enable the U.S. Renewable Energy providers, manufacturers, and researchers to go overseas and encourage other countries to invest in environment friendly energy sources.

Asian Development Bank & World Bank will speak on Future Carbon Fund, Carbon Finance Program, and support of CDM Projects.

August 28–30, Hall 3, SMX Convention Center
Metro Manila, Philippines

The exhibition provide a one-stop B2B and technology exchange platform for equipment manufacturers and suppliers, project operators, financing institutions, oil & gas producing companies, state-owned companies and relevant Government Agencies to meet and do business under one roof and venue. Exhibition profile includes all equipment, technology applications and projects available for investment to the following fields of interest:

- Alternative Fuels
- Gas Energy
- Geothermal Energy
- Hydro Energy
- Ocean Energy
- Solar Energy
- Wind Energy
- Others—Battery, Energy Bank, Energy Saving Products, etc.

*For more information, contact: TDC EVENTS INTERNATIONAL INC., 1504 FRANCISCO STREET
BERKELEY, CA 94703*

*USA Contact: Maria Gomez, Tel: +1 305 4365751, Fax: +1 305 4365352, Cel: +1 305 7722549, e-mail:
maria@andinalink.com*

*Latin America Contact: Andrea Valencia, Tel: +571 4821717, Fax: +571 3128782, e-mail:
andrea@andinalink.com*

Web site: www.dp-link.com

GEA Trade Show/GRC Annual Meeting, October 5–8 (Reno, NV)

The GEA Trade Show and GRC Annual Meeting will take place October 5-8 Peppermill in Reno, Nevada. Annually, Geothermal Energy Association hosts a wide range of companies working in the U.S. and abroad within the geothermal power industry at its Trade Show. Last year in Reno/Sparks, Nevada, 71 booths were visited by over 1000 visitors. With dramatic growth underway in geothermal power projects in the U.S. and internationally, we expect the 2008 trade show in Reno to be our largest event yet!

*For more information about the GEA Trade Show, visit http://www.geo-energy.org/2008_ts/index.htm.
For information about the GRC Annual Meeting, go to <http://www.geothermal.org>.*

XVI Annual Congress of the Mexican Geothermal Association, November 14 (Morelia, Mexico)

The XVI Annual Congress of the Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana) will take place in the city of Morelia, Mexico, on November 14.

The AGM is calling for papers related to geothermics. Please send abstracts to Luis Gutiérrez-Negrín (luis.gutierrez@geotermia.org.mx) before July 25. Ten to twelve papers will be selected for oral presentation during the congress. Papers and presentations can be in Spanish or English.

The AGM is the Mexican association affiliated to the International Geothermal Association (IGA) It holds an annual technical congress and a general assembly, restricted to its membership, usually in a city of Mexico related to geothermics. The events are cosponsored by the geothermal division of the Comisión Federal de Electricidad, whose headquarters is in Morelia.

For more information, please visit the AGM Web site (<http://www.geotermia.org.mx>), and/or send a message to Luis Gutiérrez-Negrín.

2nd African Rift Geothermal Conference, November 25–29 (Entebbe, Uganda)

The second International Geothermal Conference on the African Rift will be held in Entebbe, Uganda. The conference is designed as a forum for the exchange of information on the African Rift Geothermal Resources and for discussion of the current state of scientific knowledge and understanding of all aspects of exploration and development of geothermal resources, including exploration, field and conversion technology, design and construction, environmental considerations, financial, marketing, and operational aspects.

Scientific Program

The Scientific Program of the conference consists of Plenary Lectures, Poster presentations, Workshop and Field Trips. The structure and the list of sessions below are preliminary.

A number of Keynote addresses will be given by eminent scientists, on subjects relevant to the main themes of the conference (as indicated in this circular). Lectures will be open to all participants and will take place in a large conference hall.

Sessions

The following will be the themes for oral and poster sessions:

- Session 1: Exploration: Geology, Geophysics, Geochemistry, and Hydrology
- Session 2: Drilling and well design: Shallow and deep, Production and Injection
- Session 3: Field development, Production Technology, Power generation & Operation.
- Session 4: Reservoir Engineering: Well Testing, Injection, and Modeling
- Session 5: Case Histories
- Session 6: Economics and Financing
- Session 7: Environmental, Social, Legal and Institutional Aspects
- Session 8: Direct Use: Agri- and aquaculture, Mineral extraction, Manufacturing, Air conditioning etc.

Contributions

The organizers of ARGeoC2 welcome submission of titles/extended abstracts for oral and poster presentations from all geoscientists, engineers and others involved in geothermal resources exploration and development. Authors may submit papers for publication only, or for presentation and publication in “The Conference Proceedings.” Papers may be selected for presentation in a technical session, or poster session. Selection of papers for presentation will be based on subject material suitability, professional standards of writing, and quality of the illustrations. Time allotted for oral presentations will be 15 minutes each, with an additional 5 minutes for discussion. Oral presentations will be illustrated with LCD Projector in PowerPoint.

For more information and to register, contact Department of Geological Survey and Mines, Plot 21–29, Johnstone Road, P.O Box 9, Entebbe, Uganda. Phone: +256 712 812231, +256 712 835843, +256 773 129941. Fax: +256 414 320364. E-mail: argeoC2@minerals.go.ug or bahati@minerals.go.ug.



GEA 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