



GEO THERMAL ENERGY ASSOCIATION

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National News

House Passes Bill to Fund Investment in School Modernization, Including Geothermal Systems

Rep. Peter Welch (D-VT) sponsored an amendment to the 21st Century Green High-Performing Public School Facilities Act, H.R. 3021, authorizes \$6.4 billion for school renovation and modernization projects for fiscal year 2009. Welch worked with several northeastern lawmakers to successfully amend the bill to allow funding for investments in renewable energy and heating systems for school buildings. The amendment specifies biomass, wind, solar, and geothermal.

"Public education and school infrastructure is one of the most important investments we can make," said Welch. "In the face of our current energy challenges, providing funding for renewable energy and heating systems for our local schools is a win for taxpayers and a win for our environment. Many Vermont schools have successfully saved money and reduced their dependence on fossil fuel by converting to biomass."

Welch worked with Reps. Carol Shea-Porter, Michael Arcuri, and Paul Hodes on the amendment. The House passed the legislation, which now waits for Senate action.

Senate Wrestles with Energy Bill, Tax Extenders and AMT Relief

The Senate attempted today to bring up for debate two energy bills, S. 3044, which includes a controversial windfall profits tax, action on the House energy tax bill, H.R. 6049, which includes extension of the PTC and other renewable tax incentives. Also included in the mix, Senator Max Baucus intended to offer an amendment to HR 6049 to extend AMT relief for one year.

The Senate failed to achieve "cloture" on either bill. The vote on S.3044 was 51-43, with 60 votes needed. The vote on HR 6049 was 50-44.

The vote on cloture for the energy tax bill was:

Grouped By Vote Position

YEAs—50

Akaka (D-HI)	Feinstein (D-CA)	Nelson (D-FL)
Baucus (D-MT)	Harkin (D-IA)	Nelson (D-NE)
Bayh (D-IN)	Inouye (D-HI)	Pryor (D-AR)
Biden (D-DE)	Johnson (D-SD)	Reed (D-RI)
Bingaman (D-NM)	Kerry (D-MA)	Reid (D-NV)
Boxer (D-CA)	Klobuchar (D-MN)	Rockefeller (D-WV)
Brown (D-OH)	Kohl (D-WI)	Salazar (D-CO)
Cantwell (D-WA)	Landrieu (D-LA)	Sanders (I-VT)
Cardin (D-MD)	Lautenberg (D-NJ)	Schumer (D-NY)
Carper (D-DE)	Leahy (D-VT)	Smith (R-OR)
Casey (D-PA)	Levin (D-MI)	Snowe (R-ME)
Conrad (D-ND)	Lieberman (I-CT)	Stabenow (D-MI)
Corker (R-TN)	Lincoln (D-AR)	Tester (D-MT)
Dodd (D-CT)	McCaskill (D-MO)	Webb (D-VA)
Dorgan (D-ND)	Menendez (D-NJ)	Whitehouse (D-RI)
Durbin (D-IL)	Mikulski (D-MD)	Wyden (D-OR)
Feingold (D-WI)	Murray (D-WA)	

NAYs—44

Alexander (R-TN)	Crapo (R-ID)	Martinez (R-FL)
Allard (R-CO)	DeMint (R-SC)	McConnell (R-KY)
Barrasso (R-WY)	Dole (R-NC)	Murkowski (R-AK)
Bennett (R-UT)	Domenici (R-NM)	Roberts (R-KS)
Bond (R-MO)	Ensign (R-NV)	Sessions (R-AL)
Brownback (R-KS)	Enzi (R-WY)	Shelby (R-AL)
Bunning (R-KY)	Grassley (R-IA)	Specter (R-PA)
Burr (R-NC)	Gregg (R-NH)	Stevens (R-AK)
Chambliss (R-GA)	Hagel (R-NE)	Sununu (R-NH)
Coburn (R-OK)	Hatch (R-UT)	Thune (R-SD)
Cochran (R-MS)	Hutchison (R-TX)	Vitter (R-LA)
Coleman (R-MN)	Inhofe (R-OK)	Voinovich (R-OH)
Collins (R-ME)	Isakson (R-GA)	Warner (R-VA)
Cornyn (R-TX)	Kyl (R-AZ)	Wicker (R-MS)
Craig (R-ID)	Lugar (R-IN)	

Not Voting—6

Byrd (D-WV)	Graham (R-SC)	McCain (R-AZ)
Clinton (D-NY)	Kennedy (D-MA)	Obama (D-IL)

Company News

GEA Explains Geothermal Direct Use in U.S.

In *Renewable Energy World's* "Ask the Experts" column, Bill T. from Santa Fe, New Mexico asked the following question:

"I travel quite a lot, and have seen extensive use of geothermal energy in Iceland and some Eastern European countries for district heating. But, I don't get a sense there is much geothermal use for heating in the United States. Is this the case? If it is, why don't we use more geothermal energy for heating homes and buildings?"

GEA's Karl Gawell explained the U.S. current usage and potential for district heating, which falls under the direct use category of geothermal energy use, as well as reasons it is not as developed a resource in the U.S. as in some other countries, like Iceland.

"One reason for the low rate of development is that the most geologically viable places in the U.S. for geothermal energy are in the west, where cities and towns are spread out, making it far more expensive to install pipelines — whereas European cities tend to be closer together," Gawell said.

Gawell offered examples from current reports and projects across the western states, showing the potential and benefits that could occur from expanded direct use.

"The Department of the Interior has new rules that may help to promote more direct uses and district heating," Gawell said. "Under the new geothermal leasing law, local governments and others can obtain low-cost access to geothermal resources on public lands for public purposes. The BLM and Forest Service are about to issue a west-wide programmatic Environmental Impact Statement for geothermal leasing, which I expect should include an examination of the areas that could be suitable for community, tribal, or other similar uses of geothermal resources."

Gawell added, "According to the DOE Web site, geothermal district heating systems can save consumers 30%-50% of the cost of natural gas heating."

For the complete article, visit <http://www.renewableenergyworld.com/rea/news/ate/story?id=52651>.

Glitnir Bank Receives Financial Times Award

Glitnir Bank won second prize for ‘Sustainable Deal of the Year’ at the Financial Times Sustainable Banking awards in London, according to Northern Europe’s *Ice News*. Glitnir received the award for providing a \$15 million loan to Hudson Ranch to develop in the Salton Sea geothermal field in California.

Alexander Richter, Director of Global Industry Research and Communication at Glitnir, said that Glitnir Bank was among the first to offer this sort of financial product in the U.S. Last year, they did the same for Nevada Geothermal. “We have a very strong position in the US geothermal market and we intend to strengthen it even further,” said Mr. Richter.

Visit <http://www.icenews.is/index.php/2008/06/09/ft-awards-glitnir-bank-for-geothermal-energy-loan/>.

Sierra Geothermal: Barren Hills Report Shows Increased Capacity

Press Release—June 3, [Sierra Geothermal Power’s Barren Hills Project Reserve Estimate Increases by 500%](#)

Sierra Geothermal Power Corp. (SGP) (TSX-V: SRA) today announced the results of an independent report by GeothermEx Inc. which significantly increases the resource estimate on its Barren Hills project in Lyon County, Nevada. GeothermEx estimates a 90% probability (confidence level) of generating at least 55 MW and a 50% probability that the reserve can support a plant of 117 MW.

GeothermEx was commissioned to conduct a geothermal resource assessment and provide an independent technical report on the Barren Hills project. The previous assessment of the project was conducted in 2004 under the Public Interest Energy Report (PIER) study, which estimated the project had a 90% probability that its reserves could support a plant of 10 MW and a 50% probability of 25 MW of operating capacity. The new estimate was based on additional historical data from the previous operator’s exploration activities as well as recent geophysical studies conducted by SGP.

“We are delighted to see the increased capacity numbers. These new resource estimates are approximately 5 times greater than the 2004 assessment,” said Gary Thompson, President and CEO. “The Environmental Assessment that is required by the Bureau of Land Management to allow deep drilling has already been initiated. We look forward to advancing the project once our permits have been approved.”

In its report, GeothermEx states: “Results indicate a 90% probability that recoverable reserves are about 55 megawatt (net) for 20 years.” The report notes, however, this does not ensure that production can be achieved, because drilling is required to prove the existence of deep permeability.

For press releases from Sierra Geothermal, visit <http://www.integratir.com/newsrelease.asp?ticker=V.SRA&title=null>.

SPX Corporation: Equipment will Facilitate Icelandic Geothermal Projects

Press Release—June 3, [SPX to Supply \\$100 Million in Critical Components for Geothermal Power Plants in Iceland: Equipment Will Support Renewable Power Generation Process](#)

SPX Corporation (NYSE: SPW) today announced that its thermal equipment and services business has agreed to supply critical components worth approximately \$100 million to Orkuveita Reykjavíkur (OR), an Iceland utility. The announcement was made at a formal ceremony at the Hellisheidi geothermal power plant in Iceland on Friday, May 30, 2008.

"Our products will help create one of the most modern and efficient geothermal facilities in the world," said Drew Ladau, President of SPX Thermal Equipment and Services.

"Iceland is a world leader in geothermal power generation and we're pleased to play a role in helping build their energy infrastructure."

The SPX components are slated for OR's five planned geothermal power plants to be built at the base of Hengill volcano in Iceland. Under the terms of the contract, SPX will supply a complete cold-end solution for the plants, which includes engineering, design, manufacturing, and installation of a steam condensing system utilizing multiple SPX heat exchangers.

The new geothermal power plants, which use hot steam from within the earth to produce electricity, are anticipated to begin operation in 2010-2011 and have a total output of 225 MW. "We are pleased to support OR in the expansion of their geothermal power generation," Ladau added. "With growing global pressure to increase generation from renewable sources, SPX is continuing its tradition of supplying optimized solutions for these severe duty applications."

SPX executives were present for the ceremony along with Iceland's President, Olafur Ragnar Grimsson and the German ambassador in Iceland, Dr. Karl-Ulrich Müller.

SPX Corporation is a Fortune 500 multi-industry manufacturing leader. The company offers highly-specialized engineered solutions to solve critical problems for customers.

For news releases from SPX, visit <http://investors.spx.com/releases.cfm>.

Renewable and Climate Change News

Idaho Power Works Toward Energy Efficiency

An article in the *Idaho Statesman* reported on Idaho Power Co.'s new plans for energy efficiency. The company is looking to build new transmission lines, natural gas power plants, and wind and geothermal facilities. They are also turning energy-efficiency programs into business opportunities.

The article focused on the switch from hydropower and coal, a symptom of a far-reaching realization that the "era of cheap power is ending." Instead, the company will now put over \$900 million toward a proposed natural gas plant and two major transmission lines. This will happen over the next three years and will link Treasure Valley to Wyoming and the Pacific Northwest.

Since the hydroelectric and coal plants have become an insufficient supply of power over the past few years, the company has turned to wind and geothermal opportunities. Wind power capacity may reach 360 MW by 2009, and geothermal should provide 45.5 MW by 2011, the article said.

To work with finances, the Idaho Public Utilities Commission approved a program that lets Idaho Power cover fixed costs in power plants and transmission lines despite fluctuating power use from consumers. This will encourage energy conservation. The utility is also in a pilot program with the PUC to get a share of the incentive money for green building if the utility persuades contractors to build energy-efficient homes.

The cost of power will go up, the article said, but the company is continuing to look into other ways to make energy efficiency profitable and lower the cost.

For the complete article, visit <http://www.idahostatesman.com/387/story/404378.html>.

Controversy Over Effectiveness of the Clean Development Mechanism

On June 3, a BBC World Service investigation by the University of Zurich said politics played a “clearly significant” role in the executive rulings made in the Kyoto Protocol’s Clean Development Mechanism (CDM). The mechanism gives firms in developing countries financial incentives to cut greenhouse gas (GHG) emissions. The report says under this mechanism, carbon credits have been paid for projects that would have been realized without external funding—essentially giving projects money for nothing.

A related April 2008 study by two Stanford University professors said up to two-thirds of projects financed under the auspices of the CDM should not be credited for reducing GHG emissions. International Rivers, which monitors global CDM projects, said “Evidence is accumulating that [the CDM] is increasing GHG emissions behind the guise of promoting sustainable development.” Michael Wara and David Victor, the authors of the study, said, “it is possible to fix the CDM [through] much stronger regulatory oversight and much improved verification systems. . .[but] that approach will also imply that CDM will become a smaller market with a possibly even less predictable supply of emission credits.”

From: The Environmental and Energy Study Institute, www.eesi.org

For more information see:

<http://news.bbc.co.uk/2/hi/business/7436263.stm>

<http://www.reuters.com/article/environmentNews/idUSL0383379220080603>

<http://www.guardian.co.uk/environment/2008/may/21/environment.carbontrading>

<http://www.euractiv.com/en/climate-change/climate-change-clean-development-projects-fire/article-172702>

http://iis-db.stanford.edu/pubs/22157/WP74_final_final.pdf

State News

Colorado: Mt. Princeton Hot Springs Could Develop First Plant in State

Mt. Princeton Geothermal LLC hopes to build the first geothermal plant in Colorado, near the Chaffee County hot springs, according to gazette.com.

Mount Princeton Hot Springs owns land that could host a plant. "The possibility of creating clean power for a lot of people, that's something low impact, is exciting to a lot of us, especially when gas is \$4.50 a gallon," Tom Warren, manager of the hot springs, told the press.

The site could generate 10 MW or more. Nearby transmission lines mean the area could be a cost-effective probability, stated the article.

A 2004 Colorado vote approved a decision to require 10% renewable sources of power by 2015, and Gov. Bill Ritter expanded it to 20% by 2020, the article said.

For the complete article,

visit http://www.gazette.com/articles/energy_36914___article.html/geothermal_power.html.

International News

Dominica: Caribbean Islands Project Enters New Phase

The Geothermal Energy in the Caribbean Islands Project is set to begin geological and geophysical analysis of the project area, according to *The Dominican*. Additional surveys will be done on the Roseau River, in River Blanc area, and in the area from Dumas Estate to Morne Micotrin to the Valley of Desolation.

The project is funded under the Interreg III B Programme of the European Union. Geologist Herve Traineau and Geophysicist Nicholas Coppo of the French Geological Survey conducted the analysis.

For the complete article, visit <http://www.thedominican.net/articlesone/geothermalphase.htm>.

Germany: Abundance of New Projects in Progress

Germany's geothermal industry has seen recent growth. A recent law introduced a tariff that will allow financial possibilities for development, according to a *Renewable Energy World* article.

Currently, four geothermal power plants, all small in size, are operating in Germany. Although the German geology does not contain volcanoes or dry steam reservoirs, new technology is allowing for expanded development. "Geothermal sources could supply Germany's electricity needs 600 times over," said Werner Bussmann, CEO of the German Geothermal Association, according to the article.

A few 8–10 MW plants are due within the next year or two in Sauerlach, Dürrnhaar, Riedstadt, Speyer, Gross Schoenebeck and Mauerstetten. As many as 150 power plant projects are in talks. These represent a total investment of about 4 billion euros, the article states.

For the complete article, visit <http://www.renewableenergyworld.com/rea/news/story?id=52588>.

Iceland: Reykjavik Energy Orders 5 New Plants from MHI

Reykjavik Energy is planning five 45-MW geothermal power plants near Reykjavik, according to a press release from Mitsubishi Heavy Industries, Ltd., who will build the plants. Deliveries of the plants will commence in October 2010 and will finish by February 2012.

This brings the number of plants that Reykjavik Energy has ordered from MHI to 15, a total of 565 MW. The new plants will provide electricity to new aluminum refineries in the area.

For news releases from MHI, visit <http://www.mhi.co.jp/en/news/index.html>.

India: First Geothermal Company to Begin Drilling

India's first geothermal company, GeoSyndicate Power Private Ltd, will begin exploratory drilling later this year, according to economictimes.com.

GeoSyndicate recently signed an MoU with Panx Geothermal, an Australian Geothermal venture. The company will explore the Godavari rift and Ladakh geothermal provinces, D Chandrasekharam, the company's chairman, told reporters.

For the complete article, visit <http://economictimes.indiatimes.com/articleshow/3103703.cms>.

Indonesia: Companies Bid for Geothermal Projects in West Java

Seventeen companies will bid for geothermal projects development in West Java, according to *The Jakarta Post*. Chevron and Medco are among the bidders. The winners will be announced within the next two or three months, and the projects could kick off soon after.

"We estimate that each developer will need about two or three years to carry out the exploration activities, so we predict that all projects will be operational in 2011," said Sugiharto Harsoprayitno, director for the management of geothermal power at the Energy and Mineral Resources Ministry.

The three projects to be developed are Tangkuban Perahu at 220 MW, Cisolok Sukarame at 45 MW, and Tampomas at 50 MW.

For the complete article, visit <http://old.thejakartapost.com/detailbusiness.asp?fileid=20080607.L01>.

Nevis: First Geothermal Well in OECS Produces Steam

The West Indies Power's Nevis I geothermal well produced a 30-foot flow of steam last week, making Nevis 1 the first commercial hydrothermal geothermal well in the OECS, according to the *Caribbean Net News*.

The well is expected to go online in 2009 to supply 34 MW to Nevis and St. Kitts.

Visit http://www.caribbeannetnews.com/stkitts/stkitts.php?news_id=8316&start=0&category_id=35.

Poland: First Geothermal Power Generation Plant Under Construction

Poland has been employing geothermal energy for heating purposes since the 1990s, but the first geothermal heat and power generating plant is now under construction in Uniejów near Łódź, stated an article in *Polish Market Online*.

The article states that existing bore-holes could be developed for water and heat exploitation. Currently, high prices to extract the water are preventing full development of resources.

For the complete article, visit

<http://www.polishmarket.com.pl/document/17155?p=%2FMONITOR+GOSPODARCZY%2F>.

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 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 logon 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 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-megawatt (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).

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

Geothermal Technologies Workshops, Western Area Power Administration, June 10-11 (Westminster, CO) and August 11-12 (Everett, WA)

Western Area Power Administration (Western) is hosting two Geothermal Technologies workshops. Their theme is "Electric Utilities' Roles in Promoting Geothermal Energy Technologies." They are 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 these workshops 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. Additional agenda details and other information are on the following pages. Both workshops are similar in structure and content.

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 on the following page and send a check to made payable to Utility Forum Connection and mail to:

Utility Forum Connection
PO Box 255
Lincoln City, OR 97367

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

Cleantech Investment Briefing, June 11, McLean, VA

Morrison & Foerster LLP, supported by the Baltimore/Washington DC Chapter of the MIT Enterprise Forum, invite you to a panel of Cleantech company executives, investors, industry experts and legal practitioners—including the Corporate, Energy, Land Use and Intellectual Property/Patent practice groups. Together these leaders in the field will address the opportunities for Cleantech investment.

The discussion will focus on five of the fastest-moving Cleantech investment areas—carbon sequestration, cellulosic and algae-based biofuels, solar, water, and energy efficiency versus energy intelligence.

The event will be held Wednesday, June 11, 8:00–10:00 a.m. at Morrison & Foerster, 1650 Tysons Boulevard, Suite 400, McLean, Virginia, 22102. Registration starts at 7:30 a.m. Breakfast is provided.

For additional questions, please contact vaevents@mofo.com or 703-760-7797.

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 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 website 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.

2008 California Geothermal Summit Postponed

The California Geothermal Energy Collaborative scheduled for June 25 has been postponed, and it appears likely the event will be re-scheduled for July 30. CGEC hopes to make an announcement this week with the new date, an updated agenda, and more information.

For more information visit <http://ciee.ucop.edu/geothermal/documents/2008CGECSummitFlyer.pdf>.

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 website (<http://www.geotermia.org.mx>), and/or send a message to Luis Gutiérrez-Negrin.

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