



GEOTHERMAL ENERGY ASSOCIATION

209 Pennsylvania Avenue SE, Washington, D.C. 20003
Phone: (202) 454-5261 Fax: (202) 454-5265
www.geo-energy.org

GEA Weekly Update June 23, 2008

National News.....	2
DOE Releases FOA for Geothermal Technology.....	2
House Appropriations Begins Energy and Water Funding Process.....	3
Energy Information Administration to Release International Energy Forecasts.....	3
Company News.....	3
Sierra Geothermal: Resource Estimate Doubles; Company Places in Top 10 for TSX Venture.....	3
U.S. Geothermal: Raft River Update Shows Power Output, Test Results.....	4
Renewable News.....	5
USDA Funds Renewable Energy Projects.....	5
Inslee Supports Clean Energy With Jobs and Security Act.....	5
<i>The Economist</i> Names Geothermal as Important Energy Source.....	5
Climate Change News.....	6
Carbon Capture and Storage Bill Would Provide Technology Funding.....	6
U.S. Releases Report on Climate Change Influence on Extreme Weather.....	6
Council on Foreign Relations Releases Climate Change Foreign Strategy Report.....	6
State News.....	7
California: State Proposes Changes to Geothermal Regulations.....	7
Washington: State Sees New Interest in Geothermal.....	7
International News.....	8
Australia: Green Rock Energy Drilling at Olympic Dam, W.A.....	8
Australia: New Licenses Extend Torrens Energy Exploration.....	8
Australia: KUTh Energy Reports Geothermal Results in Tasmania.....	8
Australia: Geothermal at Forefront of Renewable Energy Options.....	8
Italy: Enel to Add Geothermal Plants to Tuscany Region.....	9
Nicaragua: Geothermal Will Help Country Reach 100% Renewable Energy.....	9
Philippines: Board Approves Kanlaon Buffer Zone Project.....	10
Philippines: Sale of Geothermal Plants Pushed to July.....	10
Notices and Employment Opportunities.....	11
Financial Assistance Funding Opportunity Announcement, U. S. Department of Energy National Energy Technology Laboratory (Applications Due July 10).....	11
Nicaraguan Energy Ministry Seeks Offers to Develop San Cristobal Volcano (Bids Due July 31).....	12
FOA, U.S. DOE, Enhanced Geothermal Systems Research, Development, and Demonstration (Applications Due August 12).....	12
Rio Tinto Alcan and the International Business Leaders Forum, Prize for Sustainability (Responses Due September 12).....	13
Engineering Manager, Western GeoPower, Inc.....	14
Partnership Opportunity, Denver Federal Center Well Logging Calibration Facility.....	14
Requests for Proposals (RFPs).....	15
RFP for Renewable Energy, Arizona Public Service (June 25).....	15
RFI for California Geothermal Development, Transmission Initiative (June 30).....	15
RFP for Partnerships for a Clean and Sustainable China, U.S. DOE (July 11).....	17
RFP for U.S. and China Clean Energy Partnership, U.S. Agency for International Development (July 17).....	17
.....	17

RFP for Renewable Energy, Arizona Public Service (August 13).....	17
RFP for Renewable Energy, Tucson Electric Power Co. and UNS Electric (September 5).....	17
RFP for Energy Frontier Research Centers, U.S. DOE (October 1)	17
RFP Climate Change and Sustainability Conferences, U.S. EPA (December 9).....	18
Upcoming Events	18
2008 Reznick Group Renewable Energy Business Symposium, The Crossroads of Technology and Finance in Renewable Energy, July 14–16 (Denver, CO).....	18
GEA “Geothermal 101” Workshop, July 23 (Ritz-Carlton @ Battery Park, New York City)	19
Oregon/Washington Geothermal Lease Sale July 24, 2008, Proposed Sale Postponed	19
Geothermal Programmatic EIS Hearings, Various Locations, July 8–30.....	19
California Geothermal Summit, California Geothermal Energy Collaborative, July 30 (Sacramento, CA)	20
11th Annual Congressional Renewable Energy, Energy Efficiency EXPO, and Forum, Sustainable Energy Coalition, July 31 (Washington, DC).....	21
Geothermal Technologies Workshop, Western Area Power Administration, August 11-12 (Everett, WA)	21
Renewable Energy Philippines 2008, August 28–30 (Manila, Philippines).....	22
GEA Trade Show/GRC Annual Meeting, October 5–8 (Reno, NV)	23
XVI Annual Congress of the Mexican Geothermal Association, November 14 (Morelia, Mexico).....	23
2nd African Rift Geothermal Conference, November 25–29 (Entebbe, Uganda).....	23

National News

DOE Releases FOA for Geothermal Technology

The U.S. Department of Energy (DOE) issued a Funding Opportunity Announcement (FOA) for up to \$90 million over a four year period, according to a June 18 DOE press release. The FOA will advance research, development, and demonstration of next-generation geothermal energy technology. DOE has up to \$10.5 million available for immediate funding under this FOA, and it anticipates making up to 26 awards, which are open to industry and academia.

Through this FOA, DOE will concentrate on issues related to enhanced geothermal systems (EGS) reservoir creations, operation and management. In the future, the work aims to create, sustain, replicate, and commercialize EGS technologies. In the short-term, these projects will develop and demonstrate technologies that are useful to both hydrothermal and EGS geothermal projects, the press release said.

“Geothermal energy is a clean, reliable, scalable, renewable energy source and these geothermal projects will help the U.S. tap domestic heat sources that were previously out of reach,” Assistant Secretary of Energy Efficiency and Renewable Energy Andy Karsner told the press.

According to the DOE, topic areas to be addressed by this FOA are component technologies research and development and system demonstrations. This will include addressing aspects of engineered reservoir creations, management and utilization of high temperatures. In addition, it will allow testing and validation of stimulation techniques for improving productivity of wells or increasing inter-well connectivity at existing geothermal fields.

Funding for this FOA is subject to annual Congressional appropriations. Applications for fiscal year 2008 are due on or before August 12, 2008. See announcement under **Notices and Employment Opportunities** for more information.

For press releases from the Department of Energy, visit http://www.doe.gov/news/press_releases.htm.

House Appropriations Begins Energy and Water Funding Process

The House Energy and Water Appropriations Subcommittee took action on its \$33 billion FY 2009 funding bill June 17, but the results of the mark-up were being withheld pending Full Appropriations Committee action on June 25.

Energy and Water Subcommittee Chairman Pete Visclosky (D-IN) said in a public opening statement:

The Fiscal Year 2009 Energy and Water Development Appropriations Act provides an opportunity to address critical issues that affect our economic vitality, environment, and national security. The lack of a coherent energy policy in years past has led to record-high gas prices that hurt every American, to copious amounts of environmentally-destructive greenhouse gas emissions, and to dependence on foreign oil that puts our national security at risk. Similar failures to make adequate investments in infrastructure in years past have led to devastating floods and slowed our shipping network. The bill that is before us today addresses high fuel prices and climate change, sets us on a path toward energy independence, makes a major investment in critical infrastructure, advances our nonproliferation efforts, and supports funding to secure our nation's nuclear weapons stockpile.

The Full Appropriations Committee mark-up is scheduled for 10 am Wednesday, June 25 and will be webcast.

For more information, go to: <http://appropriations.house.gov>.

Energy Information Administration to Release International Energy Forecasts

On June 25, the Energy Information Administration will release "International Energy Outlook 2008," which gives projections of world energy supply and demand through 2030. The release will be at the Center for Strategic and International Studies in Washington, DC.

For more information from the EIA, contact the National Energy Information Center: (202) 586-8800, infoctr@eia.doe.gov.

Company News

Sierra Geothermal: Resource Estimate Doubles; Company Places in Top 10 for TSX Venture

Press Release—June 17, Sierra Geothermal Power's Reese River Project Reserve Estimate Doubles

Sierra Geothermal Power Corp. (SGP) (TSX VENTURE:SRA) today announced the results of an independent report by GeothermEx Inc. which doubles the resource estimate on its Reese River project in Lander County, Nevada. GeothermEx estimates a 90% probability (confidence level) of generating at least 26 MW (net) for 20 years and a 50% probability that the reserve can support a plant of at least 58 MW.

GeothermEx was commissioned to conduct a geothermal resource assessment and provide an independent technical report on the Reese River project. Previously, Reese River had a 90% probability of generating 13 MW and 50% probability of exceeding 30 MW. The new estimate was based on additional exploration activities conducted by SGP. The report notes however, it is important to restate that the estimate of energy reserves is an estimate of heat in place and does not indicate that the heat can necessarily be recovered economically.

"The increased resource capacity numbers are consistent with our strategy to increase the MW capacity of our pipeline of projects," said Gary R. Thompson, President and CEO. "In addition to the recently announced 500% increase of the reserve estimate at Barren Hills, the improved Reese River estimates give our top five projects a combined resource capacity of approximately 150 MW at the 90% confidence level and 320 MW at the 50% confidence level. As a point of reference, a 150-MW geothermal power plant would provide enough clean and sustainable power for 120,000 homes."

The most recent drill results in May 2008 from Reese River include three temperature gradient wells. Wells 88-5, 62-4 and 18-33 were drilled to depths between 488 m (1,600 ft) and 610 m (2,000 ft). Bottom hole temperatures recorded were between 96 and 125° C (194–257°F).

Press Release—June 19, [Top 10 in the TSX Venture Exchange's Clean Tech Sector; Among TSX Venture Top 50 Emerging Companies](#)

Sierra Geothermal Power Corp. (SGP) (TSX VENTURE:SRA), a renewable energy company focused on the exploration and development of geothermal resources, has been chosen by the TSX Venture Exchange as one of the top emerging public companies in the clean tech sector in the third annual TSX Venture 50.

SGP was ranked eighth of the top 10 performers in the clean tech industry and was recognized as a company that is setting the bar in the sector.

"It is a great honor to be listed as one of Canada's top emerging companies in 2007," said Gary R. Thompson, President and CEO. "I want to congratulate our board members, management team and employees, and thank our investors for their part in this remarkable achievement."

U.S. Geothermal: Raft River Update Shows Power Output, Test Results

Press Release—June 19, [U.S. Geothermal Provides Raft River Update](#)

U.S. Geothermal Inc. (AMEX: HTM, TSX: GTH), a renewable energy company focused on the production of electricity from geothermal energy, announced a project update on the Raft River Unit I geothermal power plant in Idaho. The net electrical power output of the plant is currently between 10.5 and 11.5 MW. With four production and four injection wells in operation, the maximum net electrical output achieved by the plant during March, April and May were 11.2, 12.0, and 11.7 MW respectively. The power plant operated at 99% availability during the same period, including scheduled maintenance.

A computer model of the reservoir volume, pressure and temperature has been completed by an independent expert and is now being used to investigate possible production and injection well strategies to increase power production and to evaluate alternative well locations and capacities. As part of the program to test the reservoir, geothermal fluid from the power plant is being injected into production well No. 5, which has resulted in increased pressure stability within other nearby production wells and improved plant performance. This injection test is ongoing.

Final "punch list" construction activities are still being completed by Ormat Nevada. Project operating costs have been higher than budget due primarily to winter startup issues, chemical treatment of cooling water, and environmental monitoring and compliance activities. While the production well issues are being addressed, the project is purchasing power for the production pumps from a third party.

The electrical power from Raft River Unit I is being sold under a full-output contract to Idaho Power Company. Under the terms of the contract, power prices vary by season, with lower prices paid during the spring months of March through May at 73.5% of the contract price, and are paid at 120% of the contract price during the summer and winter peak months of July-August and November-January. The remaining months are paid at the 100% price level. The renewable energy credits contracted to Holy Cross Energy of Colorado have been registered with Western Renewable Energy Generation Information System so they

meet the Colorado Renewable Portfolio Standard requirements. It is anticipated that the first payments due that have been accrued will be received during the current quarter and then payments are expected on a monthly basis thereafter

Renewable News

USDA Funds Renewable Energy Projects

The U.S. Department of Agriculture Rural Development's Renewable Energy and Energy Efficiency program is providing \$1.52 million for renewable energy systems and energy efficiency projects, according to their Web site.

Twenty individuals and businesses in six states were awarded loans and grants, Agriculture Deputy Secretary Chuck Conner told the press.

Visit

<http://www.usda.gov/wps/portal/!ut/p/.s.7.0.A/7.0.1OB?contentidonly=true&contentid=2008/06/0159.xml>.

Inslee Supports Clean Energy With Jobs and Security Act

Congressman Jay Inslee is set to introduce his new renewable energy payments bill, “The Renewable Energy Jobs and Security Act.” The new act will provide:

1. guaranteed interconnection with uniform minimum standards,
2. a mandatory purchase requirement through long-term contracts with fixed-rate tariffs, and
3. rate recovery through a regional cost-sharing mechanism/regional system benefits charge.

***The Economist* Names Geothermal as Important Energy Source**

The Economist published an article called “The Future of Energy: It’s Closer Than You Think” that pointed out key points everyone should know about the clean energy world.

Of note was the inclusion of geothermal energy as an important source that is often neglected. The article cites development in the Philippines and Australia as evidence of the possibilities of geothermal, and quotes Professor Jefferson Tester of MIT on his views of future development.

“In Dr Tester’s view, the reason this source of power is neglected is that it is invisible,” the article states. “Everybody feels the wind and the sun, but only miners notice that the Earth’s interior is hot, so no one thinks of drilling for that heat.”

The article added that Dr. Tester encourages funding for \$1 billion on demonstration projects over the next 15 years to bring geothermal into a more widely used forum.

For the complete article, visit

http://www.economist.com/specialreports/displayStory.cfm?story_id=11565685 and

http://www.economist.com/specialreports/displaystory.cfm?story_id=11565660.

Climate Change News

Carbon Capture and Storage Bill Would Provide Technology Funding

Representative Rick Boucher (D-VA) has introduced a carbon capture and storage (CCS) technology bill to provide a \$1 billion federal fund. Grants from the fund would go to large-scale commercial projects. Boucher says that continued use of coal is necessary and will be aided “when a mandatory program is implemented to control greenhouse gas emissions,” he told the press.

To view the press release, visit

http://www.boucher.house.gov/index.php?option=com_content&task=view&id=1432&Itemid=1.

U.S. Releases Report on Climate Change Influence on Extreme Weather

A report released on Friday by the federal Climate Change Science Program said that the national refuge system must develop greater strategies to counter the affects of climate change, according to eenews.net/cw/. A more active approach is necessary in order to prevent major degradation in the upcoming years and this will need to include participation from the highest level of leadership in the government, the report said.

Despite threats to national parks, forests, coastlines and oceans, refuge managers have not created any strategies to help the lands adapt to climate change, the article said. According to the report, “refuge managers are faced with the dilemma of managing for a future challenge without fully understanding where and when the changes will occur and how they might be best addressed.”

The key lesson for federal officials managing public lands is to intensify efforts to deal with current problems like runoff of polluted water into streams and oceans, invasive species and air pollution, Linda Joyce, an author of the report, told the press.

With the report giving an overview of the current situation and suggestions to counter it, some think that it should have gone further. Nick Sundt, a former Climate Change Science Program employee, told the press that the report is mainly directed at resource managers at federal agencies but should have included more information to Congress and the White House.

According to the article, he would have liked to see more discussion about the budget and staffing increases needed to help agencies fold adaptation strategies into their long-range plans.

For the complete article, visit <http://www.eenews.net/cw/>.

For the report, visit <http://climatescience.gov/Library/sap/sap4-4/final-report/default.htm>.

Council on Foreign Relations Releases Climate Change Foreign Strategy Report

Source: EESI Climate Change News

On June 13, the Council on Foreign Relations (CFR) released the report, “Confronting Climate Change: A Strategy for U.S. Foreign Policy.” The report recommends an overhaul of U.S. domestic and foreign policy to confront the challenges of climate change. The report says that the United States must leverage ambitious, comprehensive, and equitable action at home to advance an effective policy abroad. It lays out a U.S. negotiating strategy for a global climate accord, outlining what the United States should be willing to offer and what it should expect others, including the rapidly emerging economies, to do in return. It cautions that a comprehensive post-Kyoto climate deal will not be easy to conclude.

The report recommends creating a Partnership for Climate Cooperation that would focus the world's largest emitters, including India and China, on implementing aggressive emissions reductions. The partnership would complement efforts in the United Nations to get a global treaty. It urges policymakers not to ignore the important economic challenges involved in reducing emissions, noting that near-term costs "matter because they affect the livelihood of Americans." It says that a "properly designed and executed domestic policy. . . can avoid unacceptable shocks or disruptions and smooth the transition to a low-carbon economy."

For more information see:

<http://rs6.net/tn.jsp?e=001gsD9NzYDf0Eh0DsTMTRykNWzA9aXvoO3Y5aLBf5A2AeEKO->

[Jh8xVDIOhGOh-](#)

[IGwQwVAJWs4Pv1YOS7e4wueQ8QcZMnqpNBk7EwllWyyZ1raAdJxutcqG0qfdFfOYMJM_CsvQxAkUH_s=">](#)

State News

California: State Proposes Changes to Geothermal Regulations

The California Department of Conservation, Division of Oil, Gas, & Geothermal Resources has proposed changes to the California regulations governing the drilling, operation, and plugging and abandoning of geothermal wells in California. The regulations may be viewed at ftp://ftp.consrv.ca.gov/pub/oil/geothermal/NewRegs_Jun_20_08.pdf

Please contact Elizabeth Johnson ljohnson@consrv.ca.gov or Mike Woods mwoods@consrv.ca.gov with any comments by August 20, 2008.

Washington: State Sees New Interest in Geothermal

Setbacks in the oil and gas industry in Washington have led to a growing emphasis on geothermal energy in the state, according to an article on SeattlePI.com. Increased interest in exploring for oil and gas in Washington in the past four years has met some challenges in the areas of geology and tax policy.

This has resulted in a focus on geothermal energy in Washington where high-temperature rocks in Eastern Washington could be used to produce geothermal energy. "That's where we're seeing a lot of inquiry," State Geologist Ron Teissere told the press. "I think there are a lot of people on the landscape looking around."

Although drilling in the state for oil and gas has taken place over the years, the Department of Natural Resources reports that there has been no production in these areas since 1962. One major factor in this is that there are many other places to drill that are less expensive due to the location of the possible oil and gas deposits in the state, the article said. Adding to this is that Washington does not have a severance tax on natural-resource extraction, other than a timber excise tax, which makes it difficult to capture revenue from the energy sector.

In the long run Washington's best hope is for one of the now-experimental technologies in these industries to emerge as a generator not only of useful energy, but also of jobs and tax revenue, the article said.

For the complete article, visit http://seattlepi.nwsourc.com/virgin/367551_virgin19.html.

International News

Australia: Green Rock Energy Drilling at Olympic Dam, W.A.

Green Rock Energy is designing a program in Western Australia for the drilling of two deep evaluation wells and water circulation testing at its Olympic Dam Geothermal Energy project, according to Greenbang.com. This comes after a successful completion of hydraulic testing earlier this year.

The drilling is in preparation for the construction of various engineered geothermal systems or reservoirs at Olympic Dam, which will supply heat energy to power a large baseload power plant, the article states. It is expected that drilling will begin during the first half of 2009.

To help cover the costs of the project, Green Rock will apply for a \$7 million grant under the federal government's \$50 million Geothermal Drilling Program.

For the complete article, visit <http://www.greenbang.com/3470/green-rock-goes-for-7m-in-geothermal-test/>.

Australia: New Licenses Extend Torrens Energy Exploration

Torrens Energy, which has been drilling for geothermal resources in South Australia, has been granted four new exploration licenses, according to abc.net.au. The company has already found high heat flows, which it expects will extend outside their current exploration area.

The drilling and experimentation done so far has uncovered temperatures of 230–260°C at 5,000 m over 800 km².

Visit <http://www.abc.net.au/news/stories/2008/06/20/2280814.htm>.

Australia: KUTH Energy Reports Geothermal Results in Tasmania

A report from KUTH Energy shows that equilibrated heat flow values from drilling on its geothermal tenement in Tasmania confirm and extend the high values reported elsewhere in the tenement, according to energycurrent.com. The high values are necessary for hot rock geothermal projects.

Surface heat flow values of 83 mW/m² returned from three drill holes to the northeast and northwest of the Storey's Creek Granite. Also, the area of high heat flow given by KUTH's drilling program to date is greater than 579 m² and open on several sides, the article stated.

The results, together with four earlier reported values of between 92 and 96 mW/m², reinforces that KUTH's heat flow drilling program "is defining a new, significant geothermal province in Australia," KUTH told the press.

"The magnitude of the heat flows obtained is comparable with those reported from the Cooper Basin, currently Australia's best known geothermal province," KUTH added.

For more information, visit <http://www.energycurrent.com/index.php?id=3&storyid=11358>.

Australia: Geothermal at Forefront of Renewable Energy Options

Geothermal, wave, and wind energy have all been identified as options capable of reducing dependence on fossil fuels, according to an article in *The Sidney Morning Herald*. Scientist and industry experts state that

with continuing development of these types of energy, the emergence of them as realistic solutions isn't too far away.

Geothermal energy is one area that is gaining momentum. "There's a lot of investment in geothermal and companies are at the point of actually drilling deep wells and starting to circulate water between those wells, which is the key commercialization barrier to developing a robust geothermal system," Peter Reid, the operations manager of Petratherm told the press.

Petratherm, an Australian-based geothermal exploration and development company, is already operating one of Australia's most advanced geothermal programs. Reid predicts that in the near future, geothermal production will be more wide-spread.

"I think you will see some power being produced on a small scale in the next 12 to 18 months," he added. "The common thought is that maybe up to 10% of Australia's capacity could be generated by geothermal by around 2050, a sizeable chunk of our energy budget."

Many experts predict that advancements in alternative energy technologies will continue, along with the percentage of renewable energy used, according to the article.

For the complete article, visit <http://www.smh.com.au/news/environment/riding-new-wave-of-answers/2008/06/17/1213468423197.html>.

Italy: Enel to Add Geothermal Plants to Tuscany Region

In the Tuscany region of Larderello, geothermal energy continues to flourish since its establishment in the area in 1913 with the world's first geothermal steam power plant, said an article in independent.co.uk. Today, the energy source fuels 25% of Tuscany's electricity and that will most likely increase with the proposal of more plants in the area.

The Larderello power plant is owned and operated by Enel, Italy's largest power company, which has operations throughout the world. Enel plans to add five more geothermal plants to the Tuscany region. According to the article, two of those have been approved, with the other three plants waiting for planning authorization.

The plans will help Italy maintain its position as the world's fourth-largest generator in the geothermal sector. Also it will allow geothermal energy to continue supplying more than five billion kilowatt hours of electricity every year to approximately two and a half million households, the article said.

Geothermal energy is an established resource in Italy and Enel hopes to expand the resource even more throughout the world. According to the article, in the United States alone the company plans to double the size of its geothermal operations by 2012.

For the complete article, visit <http://www.independent.co.uk/news/business/analysis-and-features/magma-force-clean-energy-lights-up-chiantishire-851840.html>.

Nicaragua: Geothermal Will Help Country Reach 100% Renewable Energy

The Nicaraguan government is considering offers of at least \$30,000 made before July 31 to develop at the San Cristobal Volcano, according to an article found on Bloomberg.com. This is part of the government's plan to switch entirely to alternative energy within five years, which would provide the country independence from Venezuelan oil.

Nicaragua's Energy Ministry posted a statement on their Web site at <http://www.mem.gob.ni/media/file/ADQUISICIONES/CONVOCATORIA%20LICITACION%20CASITA>

[.pdf](#). Contact information about making an offer can be found under **Notices and Employment Opportunities**.

Visit http://www.bloomberg.com/apps/news?pid=20601086&sid=arPvPCpZfq.U&refer=latin_america.

Philippines: Board Approves Kanlaon Buffer Zone Project

Energy Development Corporation (EDC) is ready to move forward with its geothermal expansion project in the Philippines' Mt. Kanlaon buffer zone after setbacks with its project proposal. EDC appealed seven conditions that the Provincial Board set when it approved EDC entry to the buffer zone in May. The seven conditions are listed below, as reported by the Philippines' sunstar.com:

1. For a change of project title from geothermal exploration to development, none from the board members has objected.
2. On selling cost of geothermal power, Board Member Nehemias de la Cruz (1st District) proposed that EDC should sell its power in a lower rate compared to independent power producers (IPPs) and let the three electric cooperatives in Negros Occidental -- the Central Negros Electric Cooperative (Ceneco), Negros Occidental Electric Cooperative (Noceco), and Victorias-Manapla Rural Electric Service Cooperative (Vresco) -- be the top priorities in power distribution.
3. No cutting of trees beyond 100 cm, Board Member Edgardo Acuña (2nd District) has gave nod to EDC's promise to only cut about 34 trees measuring 100 cm and above with condition to exert all efforts aimed at minimizing the number of big trees to be cut during civil works and road making within the 12.52 hectares land area at the buffer zone.
4. Condition that during tree cutting, members of the Oversight Committee (OC) shall be there 12 to 16 hours everyday, Board Member Frederick Kho (3rd District) conceded to the latest proposal that EDC should send notice to the OC and in case members won't appear on the site, it's tantamount of wavering their rights to this particular condition.
5. On composition of OC, Kho said that they're now passing on the responsibility to Governor Zayco to choose whom he want to compose the OC.
6. The issue of Global Positioning System (GPS) and satellite imagery to be installed at the buffer zone, Board Member Melvin Ibañez (5th District) agreed to the suggestion that instead of these hi-tech gadget, EDC shall only submit to the PB an aerial photo of the buffer zone at the start of exploration, a year after and during completion, and then a bi-annual update.
7. Condition of 100 trees to every one tree cut, Board Member Reynaldo Gustilo (1st District) agreed to EDC's proposal to only one is to 36 ratio, provided, however, that EDC should reforest about 400 hectares instead of only 125 hectares of Mt. Kanlaon Natural Park in five to 10 years.

For the complete article, visit

<http://www.sunstar.com.ph/static/bac/2008/06/19/news/edc.s.geothermal.expansion.project.okayed.html>.

Philippines: Sale of Geothermal Plants Pushed to July

For the second time the Philippines' government is delaying the sale of two geothermal plants, according to uk.reuters.com. The sale has now been pushed back to late-July due to questions from the bidders about supply contracts.

The delays come with the sale of the 289-MW Tiwi and 458.53-MW Makban geothermal facilities. The sale first moved from its original date of June 4 to June 27, the article said.

“We needed more time to thrash out the issues raised by the bidder particularly on geothermal supply contracts,” Power Sector Assets and Liabilities Management Corp (PSALM) vice president Froilan Tampinco told the press.

According to the article, the government has been guaranteeing supply contracts for the plants in order to assure potential buyers of a ready income stream. With 22 active volcanoes, the Philippines is the world's second-largest producer of geothermal energy and the resource supplies 18% of the Philippines' energy.

For the complete article, visit <http://uk.reuters.com/article/email/idUKMAN27920720080623>.

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.

Nicaraguan Energy Ministry Seeks Offers to Develop San Cristobal Volcano (Bids Due July 31)

The Nicaraguan government is considering offers of at least \$30,000 made before July 31 to develop at the San Cristobal Volcano.

Nicaragua's Energy Ministry posted a statement on their Web site at

<http://www.mem.gob.ni/media/file/ADQUISICIONES/CONVOCATORIA%20LICITACION%20CASITA.pdf>.

The documents, in Spanish, can be obtained from:

MINISTERIO DE ENERGIA Y MINAS

Del Portón del Hospital Bautista 1 c. Abajo, 125 vrs. al lago. Apartado postal CJ-159.

Managua, Nicaragua

PBX: (505) 222-5576 Fax: (505) 222-4629

For more information, contact:

- Lic. Iván Cortés, Dirección General de Electricidad y Recursos Renovables, correo electrónico: ivan.cortez@mem.gob.ni
- Ing. Magdalena Pérez, correo electrónico: magdalena.perez@mem.gob.ni
- Lic. Aura María González correo electrónico: aura.gonzalez@mem.gob.ni. Pagina web: www.mem.gob.ni

FOA, U.S. DOE, Enhanced Geothermal Systems Research, Development, and Demonstration (Applications Due August 12)

Announcement Number: DE-PS36-08GO98008

Initial estimated total funding for this award is listed at \$10,500,000 in FY'2008; with additional anticipated funds of \$79,000,000 in FY'2009 and FY'2010, subject to change and Congressional appropriations. There are also distinctions between funding for two topic areas covered in this FOA. Please see the FOA for detailed funding information.

Geothermal energy is an abundant, reliable, ubiquitous, base load, indigenous renewable energy source. Only the hydrothermal portion of the geothermal resource has been developed commercially around the world. There are a significant number of hydrothermal systems that do not have adequate productivity for economic production. To address the development of Enhanced Geothermal Systems (EGS), DOE recognizes that there will be challenges requiring new technology development in the form of R&D, field testing, and verification in order for EGS to enter the marketplace. DOE is seeking to partner with geothermal stakeholders to alleviate some of the risks of EGS development through this Funding Opportunity Announcement (FOA) covering two key topic areas. This integrated FOA will allow DOE to

develop new sensors, down-hole tools, and mapping capabilities in order to operate at greater depths and higher reservoir temperatures, and to partner with geothermal stakeholders to increase the knowledge and understanding necessary for EGS to advance to a state of commercial readiness. Brief descriptions of both topic areas are as follows:

Topic Area 1: Component Areas R&D

This topic area seeks projects that address key aspects of engineered reservoir creation, management, and utilization by developing tools and techniques useful to temperatures up to 300°C and depths as great as 10,000 m. Areas of interest include: zonal isolation; down hole pumps; fracture characterization; image fluid flow; tracers and tracer interpretation; high temperature logging tools and sensors; and stimulation prediction models. These technology improvements are discussed in greater detail in the report, An Evaluation of Enhanced Geothermal Systems Technology, posted on the DOE Web site: http://www1.eere.energy.gov/geothermal/pdfs/evaluation_egs_Tech_2008.pdf.

Topic Area 2: System Demonstrations

This topic area seeks projects that will successfully characterize a geothermal system with low natural productivity, develop a plan to stimulate the productivity of the system, stimulate a well in the system and monitor the productivity or injectivity of the well in relation to other wells available in the system. The projects will allow testing and validation of stimulation techniques for improving productivity of wells or increasing inter-well connectivity at existing geothermal fields. Use of available or experimental technologies from geothermal, petroleum or other relevant industries will be considered.

Applications for this Funding Opportunity Announcement must be accessed, completed, and submitted through Grants.gov at <http://www.grants.gov> to be considered for award. Questions regarding the content of the announcement should be submitted through the “Submit Question” feature of the DOE Industry Interactive Procurement System (IIPS) at <http://e-center.doe.gov>.

VERY IMPORTANT: To complete and submit applications through Grants.gov, there are several actions you must complete (e.g., obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, register with the Central Contract Registry (CCR), install the PureEdge Viewer, register with the credential provider, and register with Grants.gov). Applicants are highly encouraged to register as soon as possible and should allow at least 21 days to complete the registration process. When done, call the Grants.gov Helpdesk at 1-800-518-4726 to verify successful registration. Registration Instructions are found on the Grants.gov Web sites at <http://www.grants.gov> and in the Funding Opportunity Announcement.

Should you have questions regarding the operation of Grants.gov, please contact the Grants.gov Contact Center at support@grants.gov or 1-800-518-4726. Contact Center hours of operation are Monday–Friday from 7:00 am to 9:00 pm Eastern Standard Time.

Visit <https://e-center.doe.gov/iips/faopor.nsf/3b3cff0a4a1f243485256ec100490e1a/c6ac09127a4b508b8525746c005f950d?OpenDocument> for information and instructions. The full announcement can be found at [Announcement DE_PS36-08GO98008.pdf](#). Additional information is available at [Document; Enhanced Geothermal Systems Research, Development, and Demonst...; 06/19/2008](#).

Rio Tinto Alcan and the International Business Leaders Forum, Prize for Sustainability (Responses Due September 12)

Rio Tinto Alcan and the International Business Leaders Forum seek nominations for the Rio Tinto Alcan Prize for Sustainability. The prize recognizes organizations demonstrating a comprehensive approach to addressing, achieving and further advancing economic, environmental and/or social sustainability. First prize is \$1 million. Responses due 9/12/08.

For more info, go to: <http://www.alcanprizeforsustainability.com/intro.php>.

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 be 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 a 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, 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. **NOTE:** the planning horizon for RETI is tied to California's RPS goals which is getting to a 20% renewables mix at the retail level by 2013 (with flexible compliance), and 33% by 2020. The RETI analysis

will be split into three distinct time periods: near-term (through 2012), mid-term (2013 to 2016) and long-term (2017 to 2020).

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 Partnerships for a Clean and Sustainable China, U.S. DOE (July 11)

The U.S. Department of State requests proposals for China Request for Assistance. Through this initiative, DOS seeks proposals from U.S. and Chinese organizations to assist in areas including reducing greenhouse gas emissions; advancing sustainable economic growth; reducing poverty; creating new investment opportunities; building local capacity; and improving economic and energy security. \$6.79 million expected to be available, up to 15 awards anticipated. Responses due 7/11/08.

For more info, go to:

<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=41879>.

Refer to Sol# S-OES-08-RFA-003. (Grants.gov 6/2/08)

RFP for U.S. and China Clean Energy Partnership, U.S. Agency for International Development (July 17)

The U.S. Agency for International Development requests proposals for the U.S. and China Clean Energy Partnership. This program will support public-private partnership activities that assist China in achieving its national energy efficiency goals and reduce its growing contributions to greenhouse gas emissions, while at the same time addressing China's local and regional air pollution and unsustainable energy consumption patterns. \$2 million expected to be available, 1 award anticipated. Responses due 7/17/08.

For more info, contact Praveena ViraSingh at pvirasingh@usaid.gov or go to:

<http://www07.grants.gov/search/search.do?oppId=41898&flag2006=false&mode=VIEW>.

Refer to Sol# USAID-RDMA-CHINA-486-08-008-RFA. (Grants.gov 6/4/08)

RFP for Renewable Energy, Arizona Public Service (August 13)

The Arizona Public Service seeks at least 35,000 MWh and up to 1,000,000 MWh from renewable energy resources. Notice of Intent to Bid is due 7/11/08, final proposals due 8/13/08.

For more info, contact Gordon Samuel at RenewableRFP@aps.com or go to:

<http://www.aps.com/aps/rfp/renewable2008/default.html>.

RFP for Renewable Energy, Tucson Electric Power Co. and UNS Electric (September 5)

Tucson Electric Power Company and UNS Electric RFP seek up to 150,000 MWh from eligible renewable energy resources and associated credits to meet Arizona's RPS requirements. Responses due 9/5/08.

For more info, contact Carmine Tilghman at ctilghman@tep.com or go to:

<http://www.uesaz.com/Wholesale/>. (Green Power Network 6/7/08)

RFP for Energy Frontier Research Centers, U.S. DOE (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, U.S. EPA (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

2008 Reznick Group Renewable Energy Business Symposium, The Crossroads of Technology and Finance in Renewable Energy, July 14–16 (Denver, CO)

Reznick Group is pleased to announce the first in a series of business symposiums created for key decision makers in renewable energy business and technology.

The Crossroads of Technology and Finance in Renewable Energy will explore the critical relationship between technology and finance in the successful development of renewable energy projects and infrastructure. It is designed for leaders looking to improve their understanding of renewable energy technologies, transactions, valuations and business issues and capital structures. It will provide a unique opportunity for developers, investors, power producers, technology firms and others to come together and learn important new information in the rapidly changing renewable energy industry.

Speakers include:

- Congressman Mark Udall (D-CO)
- John Geesman—American Council on Renewable Energy
- Matt Ringer—National Renewable Energy Laboratory
- Ted Schultz—Duke Energy
- John Eber—JP Morgan
- Saf Dhillon—U.S. Geothermal Inc.
- Jigar Shah—SunEdison
- Patty Hargreaves—Mondial Energy Inc.

For more information or to register, please visit the Web site at http://www.reznickgroup.com/sub_main.php?document_id=92&ion_id=5&subpage=14.

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, U.S. 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 U.S. geothermal development including, ThermaSource, EGS, Inc. MidAmerican Energy, Ormat, Glitnir, U.S. 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.

Geothermal Programmatic EIS Hearings, Various Locations, July 8–30

The BLM and U.S. Forest Service had released a Draft Programmatic EIS for Geothermal Leasing on BLM and Forest Service lands in a dozen western states. Hearings on the Draft document are scheduled from July 8 to July 30, as noted below. For more information on the Draft PGEIS, and the hearings dates and locations, go to: http://www.blm.gov/wo/st/en/prog/energy/geothermal/geothermal_nationwide.html

- 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.

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/2008CGECSSummitFlyer.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.

11th Annual Congressional Renewable Energy, Energy Efficiency EXPO, and Forum, Sustainable Energy Coalition, July 31 (Washington, DC)

The 11th Annual Congressional Renewable Energy & Energy Efficiency EXPO + Forum will be hosted by the Sustainable Energy Coalition in cooperation with Members of the congressional Renewable Energy & Energy Efficiency Caucuses. The day-long event will be held in the Caucus Room of the Cannon House Office Building in Washington, DC on Thursday, July 31.

This year's EXPO will bring together more than three dozen businesses, sustainable energy industry trade associations, and energy policy research organizations to showcase the status and near-term potential of the cross-section of renewable energy and energy efficiency technologies.

As Congress, the Administration, the business community, and American voters search for options to address ever-higher energy prices, increased reliance on energy imports, and the potential threat posed by rising levels of greenhouse gas emissions, the EXPO will help address the role that sustainable energy technologies might play. This will include not only the technical aspects of renewable energy and energy-efficient technologies but also related issues such as economics, current and near-term market potential, model programs in the public and private sectors, institutional and legal barriers, etc.

Attendance is free and no RSVPs are required.

For more information and to register to exhibit, contact:

*Ken Bossong
Sustainable Energy Coalition
6930 Carroll Avenue
Suite #340
Takoma Park, MD 20912
301-270-6477 x.23
Kbossong614@yahoo.com
<http://www.sustainableenergycoalition.org>*

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, Kara Slack, 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