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<http://www.geo-energy.org/updates.aspx>



National News

DOE Announces \$15 Million for Geothermal Heat Recovery Methods and Technologies

DOE’s Geothermal Technologies Program is soliciting geothermal energy research and development projects that address:

- environmental risk factors, ensuring geothermal energy development is consistent with Energy Independence and Security Act of 2007 (EISA) section 614
- innovative methods for extracting heat from geologic formations lacking hydrocarbons to GTP’s technology portfolio
- reducing the Levelized Cost of Electricity to \$0.10 kWh to \$0.06 kWh

DOE’s press release:

Press Release — August 20, The U.S. Department of Energy’s (DOE) Geothermal Technologies Program today announced a \$15 million funding opportunity to research and develop innovative methods to extract heat from geothermal resources from the Earth’s crust to produce clean, renewable energy. DOE’s objective through this funding is to promote the advancement and commercialization of technologies for heat recovery with potentially lower environmental, technical, and financial risks than currently available methods.

This funding opportunity seeks applicants to expand geothermal power generation into geologically diverse environments, such as permeable sedimentary formations, a widespread geologic resource of which a number of reservoirs are located in regions with high electricity prices. Naturally permeable rock formations not only reduce the need to increase permeability artificially, but also minimize the risk of rapid drawdown of the reservoir’s heat to allow for sustained heat recovery.

Proposals should actively address potential environmental risk factors associated with geothermal heat recovery such as water consumption and induced seismicity. Cooperation and innovative partnerships among geothermal, mining, carbon sequestration, oil and gas industries, small businesses, national laboratories, and academic institutions are highly encouraged.

Funding will be available on a competitive basis for two phases of work. Phase I will encompass feasibility studies of the applicant’s proposed heat recovery method including numerical analysis of the proposed reservoir, economic modeling, and unproven component technology engineering and validation plans. Phase II will be the validation and proof of concept of unproven component technology.

Prospective applicants for this Funding Opportunity Announcement (FOA) are encouraged to begin developing partnerships, formulating ideas, and gathering data for potential applications. An initial, pre-application concept paper is required to be eligible for submission of a full application. Pre-application concept papers will receive

feedback from DOE regarding the responsiveness of the concept to the objectives of the FOA. The pre-application concept papers are due October 1, 2010 and eligible full applications will be due November 30, 2010.

The complete Funding Opportunity Announcement can be viewed on the FedConnect Web site, <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000336&agency=DOE>.

DOE's Geothermal Technologies Program works to establish geothermal energy as a significant contributor to America's future electricity generation by partnering with industry, academia and the national laboratories to discover new geothermal resources, develop innovative methods for tapping geothermal resources, and demonstrate high-impact technologies.

See http://www1.eere.energy.gov/geothermal/news_detail.html?news_id=16257.

With Hill Hopes for Climate Bill Dashed, Advocates Circle Wagons at EPA

From Sustainable Energy Coalition/SUN DAY Campaign

With global warming legislation sidelined, most advocates are shifting their focus to upholding EPA's authority to limit greenhouse gas emissions. Their strategy amounts to a two-pronged campaign: fending off efforts in Congress to handcuff EPA regulatory power while prodding the Obama administration to mandate deep emission cuts. Legislative efforts to stymie EPA climate rules have already begun, and more are expected with November elections looming and EPA's first climate rules set to take effect in January. Opponents of EPA climate rules are also expected to try to attach measures to block climate rules as riders to appropriations bills or other legislation.

See <http://www.nytimes.com/gwire/2010/08/25/25greenwire-with-hill-hopes-for-climate-bill-dashed-advoca-50989.html>.

Vice President Biden Says US on Path to Double Wind, Solar and Geothermal

On August 24, the Administration released a report on the status of efforts under the stimulus legislation, and as part of that event Vice President Biden spoke to the state of progress on achieving the Administration's goal of doubling wind, solar and geothermal power production by 2010. The Vice President said:

"...we're jumpstarting investment in renewable energy.

Three decades ago, the U.S. led the world in another arena - the development of renewable energy such as wind, solar, and geothermal power. Since that time, because of the failure to invest in these industries, we've fallen behind.

President Obama, Secretary Chu, and I set a goal of doubling U.S. renewable energy generation capacity from wind, solar, and geothermal by 2012.

We wanted to install as much renewable capacity in three years as the U.S. had in the previous thirty.

But we're ahead of pace to meet it. In Pensacola, Florida, we've funded the largest photovoltaic power plant in North America, with over 90,000 solar panels—enough to provide energy for 3,000 homes.

And the Department of Energy is in the process of supporting what will be the world's largest solar thermal facility – in the Mojave Desert. It will have 349,000 mirrors.

Because of projects like these, we are on pace to cut the cost of solar energy use in half by 2015 – leading us towards a day when solar power can be as cheap or cheaper than electricity from the grid, meaning that households can save money by using solar.

All told, the new generation capacity supported by the Recovery Act is going to power 16.7 million homes.

But we knew that generating renewable power was only half the story – that we had to reassert ourselves as renewable manufacturing leaders as well. So President Obama set a goal of doubling U.S. renewable manufacturing capacity by the end of 2011.

And, by the way, that means jobs.

We're on track to meet that goal, too. We're using a tax credit (48C) to increase incentives for renewable energy manufacturers to set up or relocate their businesses here in the US. Already, for example, it's paid out \$346 million in tax credits for wind alone, resulting in 52 wind manufacturing projects in the US.

And again, it's not just government. It's leveraging private capital: All in all, \$46 billion in clean energy funds we're providing in seed money alone will generate more than \$100 billion in non-federal investment in new energy projects.

As a result, we are on pace to hit our target of doubling America's renewable energy generation and manufacturing capacity by 2012."

For the Vice President's complete remarks go to <http://www.whitehouse.gov/the-press-office/2010/08/24/remarks-vice-president-joe-biden-recovery-act-innovation-report-event>.



Company News

Nevada Geothermal Power Inc.: Settlement with Ormat Announced

Press Release, August 23 — Nevada Geothermal Power Inc. (NGP) (TSX.V: NGP, OTCBB: NGLPF) is pleased to report that NGP Blue Mountain I LLC, the owner of the 49.5 MW Faulkner 1 geothermal power plant and Ormat Nevada Inc. have settled all disputes that have arisen under the EPC contract as a result of the facility shutdown between January 16 and February 23, 2010 due to a short circuit caused by faulty layout of underground cables.

"We believe the settlement, which consists of cash, power plant spares and extended warranties, is responsive to NGP's requests. NGP is pleased with the performance of the plant since its restart in February and we are looking forward to a good and continuing relationship with Ormat," said Brian Fairbank, President & CEO.

"We are happy with the settlement," said Dita Bronicki CEO of Ormat. "This demonstrates Ormat's commitment to its EPC customers. We wish NGP success in the continued development of geothermal power plants."

Ormat Technologies: GRE Project Begins Commercial Operation

Press Release, Reno Nev., Aug. 25 -- Ormat Technologies, Inc. (NYSE: ORA), today announced that the GRE Recovered Energy Generation (REG) power plant is in commercial operation.

The project is a 5.5 MW net power plant that converts the waste heat from the exhaust of a gas turbine in a compressor station along a natural gas pipeline in Martin County, Minnesota. The electricity produced by the project is sold to Great River Energy, under a 20 year power purchase agreement.

"We are very happy to bring into commercial operation this most recent REG unit along the Northern Border gas pipeline. This is the 10th REG unit we own and operate in the U.S., that brings the total installed capacity to approximately 53 MW and contributes to the important goal of emission free power generation," said Dita Bronicki, Chief Executive Officer of Ormat.

The ORMAT® REG facilities consist of ORMAT® ENERGY CONVERTERS (OEC) based on Organic Rankine Cycle technology, which converts recovered heat to electricity without the need for any additional fuel or water. The OEC units are environmentally benign, with no emissions of CO2 or NOX.

See <http://www.ormat.com/news>.

Sierra Geothermal Power: Q2 Financial Results Reported

Press Release, Vancouver, BC - August 26 -- Sierra Geothermal Power Corp. today disclosed results for its second quarter ended June 30, 2010.

For the second quarter and six months ended June 30, 2010, Sierra reported a net loss of \$912,636 or (\$0.01) per share and \$2,349,219 or (\$0.02) per share compared to a net loss of \$642,400 or (\$0.01) per share and \$1,070,631 or (\$0.01) per share for the second quarter and six months ended June 30, 2009. As of June 30, 2010, Sierra had cash of \$4,086,346 and working capital of \$3,902,147, compared to cash of \$8,260,320 and working capital of \$6,664,549 on December 31, 2009. The full text of Sierra's unaudited financial statements and management's discussion and analysis is available on the SEDAR website at www.sedar.com or at www.sierrageopower.com.

As disclosed in its July 21, 2010 news release, Sierra has scheduled a special meeting of shareholders at 10:00 a.m. (Vancouver time) on August 31, 2010, at the offices of its counsel, Clark Wilson LLP, at 800- 885 West Georgia Street, Vancouver, B.C., at which it will ask its shareholders to consider and, if thought fit, adopt a special resolution approving a proposed plan of arrangement with Ram Power, Corp. The special resolution approving the proposed plan of arrangement must be approved by at least sixty six and two thirds percent of the votes cast by shareholders represented in person or by proxy at the special meeting.

Sierra's Board of Directors and management strongly encourage shareholders to vote at the special meeting. Detailed information concerning the plan of arrangement and how to vote at the special meeting of shareholders is contained in the shareholder meeting materials mailed by Sierra to its shareholders on or about August 5, 2010. A copy of these meeting materials is available on SEDAR at www.sedar.com. See <http://www.sierrageopower.com/>.

US Geothermal: Phase 1 of San Emidio Geothermal Project Receives Permit

The Washoe Planning Commission has granted a permit allowing U.S. Geothermal Inc. to begin work on Phase 1 of its San Emidio Geothermal Project in northern Nevada. The first of two phases, the reconstruction and relocation phase will begin in third quarter 2010. The total project is estimated at \$200 million, with \$3.7 million coming from the DOE's Innovation Exploration Grant. US Geothermal will develop an exploration strategy to identify preexisting access points for geothermal fluids.

See

<http://www.energyboom.com/geothermal/phase-1-san-emidio-geothermal-project-begins-after-receiving-special-permit>.

Vulcan Power Company: Reno to Host New Headquarters

Vulcan Power Company is relocating its headquarters to Reno, Nevada and will host an open house August 27. CEO Craig Mataczynski will discuss business, current Nevada drilling sites, and plans for expansion. Senate Majority Leader Harry Reid (D-Nev.) will speak on Nevada's role in the geothermal industry.

See <http://www.rgj.com/article/20100820/BIZ/8200373/Vulcan-Power-Company-relocates-to-Reno>.



Renewable Energy and Climate Change

U.S. Chamber of Commerce Sues EPA over Endangerment Finding

From EESI Climate Change News:

On August 13, the U.S. Chamber of Commerce and the advocacy group Coalition for Responsible Regulation each filed petitions asking the U.S. Circuit Court of Appeals for the District of Columbia to review the Environmental Protection Agency's (EPA) decision that greenhouse gases (GHGs) endanger human health and welfare. The petitions were filed the same day that EPA formally published in the Federal Register its decision to not reconsider the endangerment finding. "The U.S. Chamber, policymakers, numerous trade groups, state governments, and businesses throughout the country have collectively raised strong concerns about the significant negative impact the EPA's endangerment finding will have on jobs and local economies," Robin Conrad, the executive vice president of the Chamber's National Litigation Center, said in a statement. The Chamber does not question the science behind the endangerment finding, but rather whether it is appropriate to use the Clean Air Act to regulate GHG emissions. "The EPA itself has admitted that regulating climate change under the Clean Air Act would create an 'absurd' result," Conrad said. "Unfortunately, the agency has refused to reconsider its flawed decision."

For additional information see: [New York Times](#), [Environmental Leader](#), [U.S. Chamber of Commerce Press Release](#)

U.S. Energy-Related Carbon Dioxide Emissions to Increase 3.4% in 2010

From EESI Climate Change News

On August 10, the U.S. Energy Information Administration issued its monthly Short-Term Energy Outlook, which projected a rise in carbon dioxide (CO₂) emissions in 2010 due to economic growth. CO₂ emissions from fossil fuels declined by 7.0 percent in 2009, but are now expected to increase by 3.4 percent and 0.8 percent in 2010 and 2011, respectively, as energy consumption grows. Even with these increases, the EIA points out that these projected emissions remain below any level from 1999 through 2008. The expected rise in energy usage is attributed to higher electricity coal sector usage and natural gas consumption in 2010, while greater demand for petroleum in the transportation sector and industrial sector fossil fuel demand growth will contribute higher emissions in 2011.

For additional information see: [EIA Short-Term Energy Outlook](#).

World 2009 CO₂ Emissions Fell 1.3%

From EESI Climate Change News

On August 13, the German renewable energy institute IWR announced that global carbon dioxide (CO₂) emissions in 2009 fell 1.3 percent in a consecutive two-year decline. The institute, which advises German ministries, attributed the decline in emissions to the global economic crisis and increased investments in renewable energy technologies. CO₂ emission reductions could have been greater if stronger output from countries in Asia and the Middle East had not balanced out much of the emission declines in Europe, Russia and the United States, IWR said. "The energy-induced CO₂ output in China in 2009 due to its economic growth has grown to a level now that is as high as that of the U.S. and Russia combined," IWR director Norbert Allnoch said. At 31.3 billion tonnes, global CO₂ emissions are still 37 percent above those in 1990, the base year for the Kyoto Protocol.

For additional information see: [Reuters](#), [Environmental Leader](#)

EPRI Developing Regional Climate Solutions Analysis

An economic analysis in development by the Electric Power Research Institute shows very different regional responses to potential limits on carbon emissions, supporting the case that climate policy solutions should be made on a regional level in order to offer the best deal for consumers. "The one-size-fits-all response ... from a technical perspective doesn't make a lot of sense," said Bryan Hannegan, EPRI vice president for environment and renewable energy.

Economic responses also differed. EPRI's Prism computer model calculates the effects of changing prices for energy types as the energy demand increases over the next four decades. The analysis is expected to be finished by the end of the year.

See <http://www.nytimes.com/cwire/2010/08/19/19climatewire-a-new-epri-computer-model-makes-the-case-for-93010.html>.

Renewable Energy Myths Debunked in *Popular Mechanics*

A *Popular Mechanics* article debunks 10 myths that could block clean energy progress. Myth #7, "The Risk of Earthquakes makes Deep Geothermal Unrealistic," explains that enhanced geothermal power does not commonly have effect on the human population in light of geothermal drilling stories of Basel, Switzerland, where experts said plants were constructed in active geological areas too close to the city.

See <http://www.popularmechanics.com/science/energy/debunking-myths-about-nuclear-fuel-coal-wind-solar-7>.



State News

California: Geothermal Energy Production in State Turns 50

An article on renewableenergyworld.com highlights California as the birthplace of geothermal energy mass production in the U.S., now reaching its 50th anniversary.

The Geysers began as a single 11-MW geothermal power plant and now comprises the largest commercial geothermal field in the world. Geothermal energy provides 5% of the state's electric power.

See <http://www.renewableenergyworld.com/rea/news/article/2010/08/u-s-utility-scale-geothermal-turns-50?cmpid=rss>.

Wyoming: Casper Hosts Geothermal in the Oilfield Symposium

The Geothermal in the Oilfield Symposium in Casper, August 18-19, brought together representatives from industries, utilities, and academia. Public relations program manager Jim Nations visited from the Rocky Mountain Oilfield Testing Center where the concept is being tested, as well as University of North Dakota professor Will Gosnold whose students used 15 years of data to estimate the cost savings of using geothermal power at well sites.

Speakers discussed feasibility and economics, the nation's resource estimates, and geothermal energy potential for oilfields in Wyoming, Montana, Colorado, North Dakota, Utah, Texas and Oregon. Site visits included geological formations in Alcova and the RMOTC geothermal site.

See <http://www.wyomingbusinessreport.com/article.asp?id=53165>.



International News

Argentina: Geothermal One to Develop Plant at Las Mellizas Mine

Geothermal One of Canada will build a 30-MW geothermal plant at the Las Mellizas Mine and an associated 132 kV line for connection to the power grid. The plant could generate 25% of the region's electricity consumption.

See

http://www.powergenworldwide.com/index/display/articledisplay/5504744067/articles/powergenworldwide/renewables/geothermal/2010/08/geothermal-one_to.html.

Australia: Parliament Provides for Geothermal Production Leases

Queensland Parliament has passed Geothermal Energy legislation to promote competition in the industry and draw renewable energy companies to Queensland. Companies will obtain Geothermal Production Leases for large-scale geothermal developments. The legislation promotes responsible land and resource management and provides for compensation arrangement for those who own or occupy affected land. The Queensland government is also upgrading the 80-kW Birdsville geothermal station, the only operating geothermal plant in Australia, and investing \$15 million in the Queensland Geothermal Centre of Excellence at the University of Queensland.

See <http://www.mysunshinecoast.com.au/articles/article-display/paving-the-way-for-clean-geothermal-energy-production,18362>.

Chile: Magma and Enel to Bring Geothermal Plants on Line in 2014; Gov't Sees New Geothermal Era

Enel Chile is developing the Apacheta geothermal project in northern Chile with plans to open for business in 2014. The 40-MW plant still requires environmental approval. Four wells have shown positive results. Meanwhile Magma Energy Corp seeks to begin productions at the Mariposa geothermal field in 2014. The company will invest about \$230 million in the project.

Chile and the two vying companies will see which one opens the first geothermal plant in the country. The projects are at similar stages of progress. "We see that there is an environment of political stability; we have a country that is dedicated to renewable energy," Enel Chile president Oscar Valenzuela told press.

The Chilean government estimates \$200 million in investments in geothermal in exploration and development over two years. It plans to grant 50 new concessions over the next year and 120 over the next two years. Energy Minister Ricardo Raineri told press he will send a bill to Congress that would ease the process of obtaining exploration and exploitation concessions.

"With these measures we're starting a new era of geothermal [energy] in Chile, considering that we aspire to have 20% of our power grid supplied with energy from renewable sources by 2020," Raineri said.

See <http://online.wsj.com/article/BT-CO-20100819-711534.html>, <http://www.bloomberg.com/news/2010-08-20/magma-vies-with-enel-to-start-chile-s-first-geothermal-electricity-plant.html>, and <http://online.wsj.com/article/BT-CO-20100826-715132.html>.

Iceland: Magma Increases Stake in HS Orka Amid Opposition

In a purchase threatened by the Icelandic government a few weeks ago when a letter was sent to the company stating the privatization of the energy sector would be reversed, Magma Energy Corp's Swedish subsidiary has closed a deal on another 38.03% stake in Icelandic HS Orka. This brings the company's stake in HS Orka to 84.21%. The government is now reviewing laws on owning energy businesses, and each transaction as Magma seeks to acquire HS Orka has been reviewed by the Committee on Foreign Investment. "This matter has been reviewed twice in the past by a committee and each of those times has resulted in agreement that the transaction was completed according to existing laws," Magma spokeswoman Alison Thompson told press.

National celebrity Björk Gudmundsdottir is leading the opposition to the sale, with one poll showing opposition from 85% of Icelanders. She told press Icelanders have "a unique relationship with geothermal energy." She wrote, "We are asking the government to stop the sale and organize a national referendum on how Icelanders feel about whether access to their energy sources should be privatized or not."

Bjorn Thor Arnarson, head economist with the Chamber of Commerce says blocking foreign ownership of natural resources will hurt foreign investment in one of Iceland's most attractive industries.

See <http://www.reuters.com/article/idUSTRE67G4EX20100817> and <http://www.businessweek.com/news/2010-08-23/bjork-takes-on-magma-to-give-iceland-voters-final-say.html>.

India: IGA Board Welcomes Professor Chandrasekharam

A professor at the Indian Institute of Technology has been elected to the Board of Directors of the International Geothermal Association. Prof. D. Chandrasekharam is chairman of GeoSyndicate Power Pvt Ltd and a professor

of the Department of Earth Sciences. Chandrasekharam is the first Indian to be elected to the board. IGA has 6000 members from 65 countries.

See http://www.tradingmarkets.com/news/stock-alert/esci_indian-prof-d-chandrasekharam-elected-to-board-of-iga-1126603.html.

Italy: \$3.8 billion Expected in Enel Green Power Stake Shares

Enel SpA, the country's biggest utility expects to raise "at least" US\$3.8 billion selling minority stake in Enel Green Power. The company is in talks with sovereign wealth funds, CEO Fulvio Conti told press, though he did not disclose which countries were involved.

See <http://www.businessweek.com/news/2010-08-23/enel-seeks-eu3-billion-from-green-power-sale-ipo.html>.

Philippines: First Gen Acquires BacMan Plants, Maibarara Project on Track, and Geothermal Concepts Integrated in Public Schools

First Gen vehicle Bac-Man Geothermal will take over the 150-MW Bacon-Manito geothermal plants this week. First Gen acquired the plants from the Power Sector Assets and Liabilities Management Corp. (PSALM) for \$28.25 million. The two steam plants are located in the provinces of Albay and Sorsogon.

"We're hoping to bring the units back online within 18- to 24-month time frame. Last year, the availability was three percent so it's practically shut down and it's now in the process of planning and executing the rehab," Richard Tantoco, executive vice president of First Gen told press.

Meanwhile PetroGreen Energy Resources Corp, Trans-Asia Oil and Energy Development Corp, and Philippine National Oil Company-Renewable Corp have incorporated Maibarara Geothermal Inc. in the proposed 20-MW Maibarara geothermal project. The cost is expected at P2.8 billion and the project is scheduled for completion by second half 2013.

And alongside renewable energy development projects in the Philippines, Chevron Geothermal Philippines Holdings promotes geothermal resource stewardship and environmental consciousness in public schools through a partnership with the Department of Education in Albay, Aquinas University of Legaspi, and Aquinas University Foundation. Geothermal concepts are delivered to students using integrated curriculum webbing into subjects like math, science, English, and Filipino.

The lessons were developed in May 2010 through a series of workshops. Additional schools are expected to be added to the program by 2013.

See <http://www.gmanews.tv/story/199594/psalm-to-turn-over-150mw-bacman-geo-power-plants-to-first-gen>, <http://www.mb.com.ph/articles/273492/p28billion-laguna-geothermal-project-pushed>, and <http://www.mb.com.ph/articles/267603/geothermal-concepts-integrated-school-curriculum>.

Sri Lanka: Geothermal Explorations Underway

An article by a former University teacher and President of the Geological Society of Sri Lanka explains the geophysics of geothermal exploration and field explorations underway to locate deep hot dry rock and hot water reservoirs for power generation. "This program brings vast benefits to Sri Lanka, including advancement of knowledge in the area of geothermal energy development, training of young geologists and geophysicists in geophysical field procedures and transfer of new geophysical technology," Dr. G Morrel Fonseka writes.

See <http://www.dailynews.lk/2010/08/24/fea01.asp>.

Turkey: International Partnerships Sought

Following new Turkish alternative energy laws a town in Turkey is looking for partners to develop geothermal projects in the area. About 125,000 homes in the country are heated with geothermal energy and a 45-MW power plant is under construction.

See

<http://www.renewableenergymagazine.com/paginas/ContenidoSecciones.asp?ID=14&Cod=5977&Tipo=&Nombre=Latest%20news>.



Geothermal Heat Pumps and Direct Use

IKEA and NREL Developing Model for Large Retail Store Geothermal Systems

A Denver IKEA store will be the first to have a geothermal system when it opens next year. IKEA has teamed with DOE's National Renewable Energy Laboratory to showcase and study advantages of a geothermal heating system. The IKEA/NREL project could become a standard for geothermal installations in large-scale retail stores across the country. "By collecting actual live data on the performance of systems, you have better insight on what needs to be improved," said NREL senior geothermal analyst Erin Anderson. NREL's data base will be open to researchers.

See <http://www.sustainablebusiness.com/index.cfm/go/news.display/id/20903>.

Corps of Engineers Incorporates Geothermal Systems in All New Construction

The Fort Drum Program Office of the Army Corps of Engineers New York District is now providing geothermal as a primary option for heating and cooling in all new construction. Fort Drum began using geothermal systems in 2004 as part of an effort to look into alternative sustainable energy sources and had success with geothermal systems in barracks projects. A new \$6 million Child Development Center will incorporate a geothermal heating and cooling system and is designed to be Fort Drum's first LEED Gold building.

"We conducted a survey of the residents in the barracks over at Wheeler-Sack Barracks and we received positive responses from all surveyed," said project manager Phil Favret.

See <http://www.army.mil/news/2010/08/23/41739-corps-of-engineers-looks-below-the-earths-surface-for-green-energy/>.



<http://www.geo-energy.org/updates.aspx>



Notices

Closing This Week

AGU Session on Geothermal Exploration Seeks Abstracts (September 2)

New research and development of renewable energy resources with special emphasis on geothermal exploration has experienced an unprecedented federal funding increase over the past few years. This renewed focus has attracted a new generation of geoscientists to the field of geothermal exploration and geothermal occurrence models, making this proposed session very timely. We attempt to attract scientists from academia, industry, and government to invigorate innovative geothermal exploration techniques, incl. seismology, magnetotellurics, remote sensing, isotope geochemistry, thermochronometry, etc. We seek to focus this session on latest developments in this revived field and attract researchers from diverse fields to help propel the science forward.

AGU abstract Deadline Sept. 2. Please see

http://www.agu.org/meetings/fm10/program/scientific_session_search.php?show=detail&sessid=776 for more information.

BLM Seeks Comments for Dixie Valley EA (September 5)

The Bureau of Land Management seeks comments on two proposed geothermal energy projects in Dixie Valley as it prepares an Environmental Assessment. The proposed 70 MW plants by TGP Dixie Development Company will both be covered under one environmental assessment. The company expects the projects could create about 305 jobs and contribute \$350 million in taxes to the county. BLM has placed the projects on a fast-track timeline.

Comments will be accepted until Sept. 5. Send to Desna Young, planning and environmental coordinator, Stillwater Field Office, 5565 Morgan Mill Road, Carson City, NV 89701 or via e-mail to: desna_young@blm.gov.

E-mail should include "Coyote Canyon/Dixie Meadows" in the subject line. For information, visit http://www.blm.gov/nv/st/en/fo/carson_city_field/blm_information/nepa.html; or call (775) 885-6078.

New This Week

GEA Conducting Survey on Web Site Functionality

Posted 8/2010: GEA's web site, www.geo-energy.org has ongoing updates meant to provide you with accessible reports, information, links, and more.

We are aware of some glitches on our site — for example, there are some inconsistencies in viewing from different browsers. We are working on this; please help us solve any additional problems. Let us know:

- Have you run into any problems on GEA's site?
- Have you come across any antivirus warnings?
- Have you had any problems accessing files or links?
- Have you noticed any out-of-date information?
- Please report problems to Leslie Blodgett, leslie@geo-energy.org

Many thanks for your help! Recent updates to www.geo-energy.org include:

- Updates to Developing Projects and Power Plant information
- Video on YouTube
- Photos on Flickr
- Member Access includes presentations from all GEA events
- Member Data base searchable by field and location
- Notices, Jobs, and Proposals listed in the GEW are now also updated each week to the site.

DOE Webinars will Discuss Loan Program and New Ways to Apply (September 1 and 9)

The Department of Energy's Loan Programs Office is hosting two live webinars on Wednesday, September 1, 2010 & Thursday, September 9, 2010, from 3:00 p.m. to 3:30 p.m. EDT. Speakers will discuss the Program's open solicitations for loan guarantees and new ways to apply.

Each live webinar will cover:

- New Round 8, Part I & II deadlines for the Energy Efficiency, Renewable Energy and Advanced Transmission and Distribution Technologies Solicitation (2009);
- Eligibility information and application requirements in connection with the Solicitation for Federal Loan Guarantees for Projects that Manufacture Commercial Technology Renewable Energy Systems and Components; and
- New methods of submitting materials via the online application portal.

Webinars will include a presentation and brief Q&A. Potential applicants, industry professionals and other interested parties are welcome to attend.

To register:

Wednesday, September 1, 2010 - <https://www1.gotomeeting.com/register/683912936>

Thursday, September 9, 2010 - <https://www1.gotomeeting.com/register/412304929>

Bloomberg New Energy Finance Publishes Geothermal – US Drilling Market Research Note

Posted 8/2010: Bloomberg has just published a Geothermal – US Drilling Market Research Note for its clients. Highlights covered in the Research Note:

- Fluctuations in the domestic oil price have pushed several oil and gas drillers into the geothermal market in an effort to keep their rigs busy;
- The added competition has driven down day rates and reduced wait times for rigs, both features highly favorable for geothermal developers; and
- The US geothermal drilling market is set to expand to over \$2bn/yr; or \$15bn+ to complete the over 4 GW in the current US development pipeline.

New Study on Water Issues Related to Shale Gas

Argonne National Laboratory, through funding provided by The U.S. Department of Energy's National Energy Technology Laboratory (NETL), has just released the final report on a study they completed on water issues relating to shale gas development in the Marcellus Shale. Entitled "Water Management Technologies Used by Marcellus Shale Gas Producers", it discusses:

- Controlling the storm water runoff from disturbed areas,
- Obtaining sufficient freshwater supply to conduct hydraulic fracturing (frac jobs) on new wells, and
- Managing the flowback water and produced water from the well (primary focus of the report)

Full copy of the report available at: http://www.evs.anl.gov/pub/dsp_detail.cfm?PubID=2537.

Current Notices

DOE Loan Guarantee Solicitation Extended (October 5)

The Department of Energy is extending the application deadline for the July 2009 Energy Efficiency, Renewable Energy and Advance Transmission and Distribution Technologies Solicitation. Round 8, Part I application is due October 5, 2010. Applicants that are invited to submit a Part II application must submit all materials by the Round 8, Part II deadline of December 31, 2010.

Energy secretary Steven Chu said: "By extending the time applicants can file, we will be able to support additional projects that diversify the country's clean energy mix and strengthen our economy."

The extension gives companies six more weeks to apply for a loan guarantee under Section 1703 or Recovery Act-funded Section 1705. For more information about this solicitation and the Department's Loan Guarantee Program, please visit www.lgprogram.energy.gov.

Los Angeles Department of Water and Power Integrated Resource Plan Open for Comment

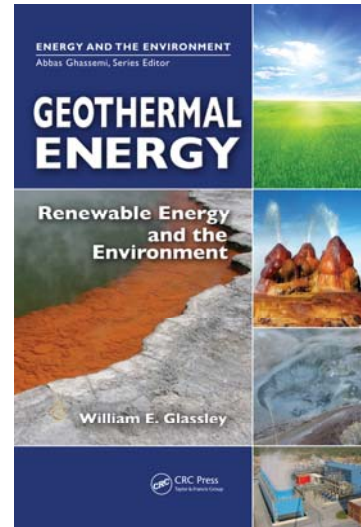
The Los Angeles Department of Water and Power (LADWP) Draft 2010 Integrated Resource Plan (Draft 2010 IRP) is now out and open for comment. The draft is designed to provide a 20-year for ensuring Las Angeles energy needs are met and follow regulatory requirements and environmental policy goals. The Draft 2010 IRP adheres to the following objectives:

- * Reliability of the Power System
- * Regulatory compliance
- * Environmental stewardship, including pursuing renewable energy resources
- * Maintaining low and stable rates

For related documents and workshops visit <http://www.lapowerplan.org/>.

New Book Provides Case Studies on Geothermal Energy Topics

A new book on geothermal energy, entitled *Geothermal Energy: Renewable Energy and the Environment* has just been released by CRC Press. The author is William E. Glassley, who is with The Energy Institute, University of California, Davis. Initial chapters deal with the physics of heat generation and heat transfer, thermodynamics, hydrology, geochemistry and basic earth sciences, providing a rigorous introduction to the principles that determine the characteristics of geothermal resources. Subsequent chapters deal with resource exploration and assessments, drilling, power generation, direct use applications and heat pumps. The book concludes with chapters that consider environmental issues, the economics of geothermal applications and project development guidelines, and potential future developments that could affect geothermal energy availability. Real world examples are used throughout the book to demonstrate key processes and considerations. Case studies conclude each chapter, along with extensive references and links to useful internet sites. Problem sets are included for each chapter and a teaching guide is also available. (CRC Press, Taylor and Francis Group, 311 pages, approximately 20 color plates and 150 figures, \$119.95. ISBN 9781420075700).



Geothermal Power Plant Technician Program in Iceland

From the Keilir Institute of Technology: Recent developments within the technologies of geothermal power plants have led the expansion of technical training in Iceland to cope with the demand for technicians. The Geothermal Power Plant Technician course at the Keilir Institute of Technology is set to address the growing need for skilled geothermal power plant technicians as well as health, safety and environmental issues.

The Geothermal Power Plant Technician course at Keilir is split into two separate programs, which are then spread across two years. The first year is an Associate of Applied Science Degree (worth 60 ECTS), where students receive hands-on training in running and maintaining power plants. The second year is an Associate of Science Degree (also worth 60 ECTS), which is more focused on the academic methods and techniques used for planning daily operations, maintenance and purchasing equipment/spare parts – the combination of the two results in a total of 120 ECTS.

Students will show a great deal of initiative, implement improvements and perform follow-up actions throughout the program. Students will also be trained with a 'sense of ownership' towards running, operating and maintaining geothermal power plants. This will of course be beneficial towards the impact of long-term employment opportunities.

In addition, students will learn how to significantly reduce maintenance costs through specialized training, without the need for a manufacturer's service. The Geothermal Power Plant Technician Program is available from September 2011 at the Keilir Institute of Technology in Keflavik, Iceland.

To find out more regarding geothermal power in Iceland, the course and Keilir visit: <http://en.keilir.net> or contact Arnbjorn Olafsson, Department Manager at Keilir Institute of Technology.



Employment

Employment Opportunities

For details on employment opportunities listed here visit http://geo-energy.org/empl_opport.aspx.

GIS Specialist, Nevada Geothermal Power, Reno, NV

Please send resumes to careers@nevadageothermal.com

Vice President Geology, Western US

Please send resumes to Bstevens@stmassociates.com

Geothermal Openings, NREL, Boulder, CO

Go to http://www.nrel.gov/employment/job_openings.html and search "geothermal"

Drilling Manager, NV

Contact:

Andrew Matkovic / Vice President Clean Tech & Energy
(216) 539-7668 or andrewmatkovic@carmongroup.com

Geophysicist, Calpine, The Geysers, CA

To apply online, see

https://www.hrapply.com/calpine/AppJobView.jsp?link=3645&page=AppJobList.jsp&skimSessionName=com.hrlogix.view.cont.app.JobListTable&skimName=requisition.requisition_id&skimNdx=4&op=reset.

Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID

Please contact:

Vanessa Van Dyk at Idaho National Laboratory: Vanessa.VanDyk@inl.gov, 208-526-6325
OR apply on line at: www.inl.gov/careers

Project Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668
(updated 8/20/10)

Development Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668
(updated 8/20/10)

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com



Requests for Proposals

Closing This Week

Market-Based GHG Reduction, U.S. EPA (September 2)

The U.S. Environmental Protection Agency requests proposals for Market-Based Approaches to Reducing Greenhouse Gas Emissions Through Energy Efficiency in Homes and Buildings. Proposals must demonstrate the potential to create a sustainable change in the market for energy efficient products, services, and best practices. Areas of interest include, but are not limited to: Improving energy performance in the residential and commercial/government market through increased use of high-efficiency products; Increasing supply/market share for high efficiency products through retail, internet sales (e- tail), and other sales outlets; and Combined Heat and Power's contribution as an energy efficiency measure and its capacity to reduce GHG emissions. \$5.360 million expected to be available, up to 14 awards anticipated. Responses due 9/2/10. For more info, contact Hewan Tomlinson at tomlinson.hewan@epa.gov or go to: http://www.epa.gov/air/grants_funding.html. Refer to Sol# EPA-OAR-CPPD-10-11. (Grants.gov 7/14/10)

Green Jobs: Training and Implementation Contractor - New York (September 2)

The New York State Energy Research and Development Authority requests proposals for a Green Jobs Green New York (GJGNY) Training and Implementation Contractor. GJGNY is a statewide program to promote energy efficiency and the installation of clean technologies to reduce energy costs and reduce greenhouse gas emissions. Successful applicant will be responsible for areas including, but not limited to, providing structured training, coordination, and communication for Constituency Based Organizations (CBOs). \$500K expected to be available. Responses due 9/2/10. For more info, contact Susan Andrews at sta@nysesda.org or go to: <http://www.nysesda.org/funding/2080rfp.asp>. Refer to RFP #2080.

New This Week

Renewables – California, SCE (September 8)

Southern California Edison Co. seeks up to 250 MW renewable energy contracts (including energy, green attributes, capacity attributes and resource adequacy benefits) from generation owners with qualifying in-state facilities of 20 MW or less in size. Responses due 9/8/10. For more info, contact George Wiltsee at george.wiltsee@sce.com or go to: <http://www.sce.com/EnergyProcurement/renewables/renewables-standard-contracts.htm>. (Green Power Network 8/5/10)

Renewables & GHG Reductions – Developing Countries, EEREP (September 10)

The U.S. Agency for International Development requests applications for the Energy Efficiency and Renewable Energy Program (EEREP). Through this program, USAID anticipates awarding Leaders with Associate (LWA) Cooperative Agreements. The LWAs will be under two themes: 1) Increasing Energy Efficiency, which will focus on increasing energy efficiency to reduce GHG emissions in developing country economies, and 2) Increasing Adoption of Renewable Energy, which seeks to assist developing countries with promoting and establishing an expanded supply of renewable energy systems. \$5 million expected to be available, 2 awards anticipated. Responses due 9/10/10. For more info, contact eereplwa@usaid.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=56249>. Refer to Sol# RFA-OAA-10-000009. (Grants.gov 7/30/10)

Renewable Energy Transmission – California, CEC (September 14)

The California Energy Commission requests proposals for the Support of the Renewable Energy Transmission Initiative (RETI). The purpose of this RFP is to select a qualified contractor to provide support services to RETI stakeholders that include coordinating and facilitating meetings, seeking consensus decisions from stakeholders and participants, and preparing reports and other documents on actions and decisions reached by stakeholders. \$750K expected to be available, one award anticipated. Responses due 9/14/10. For more info, contact Andrew Ferrin at aferrin@energy.state.ca.us or go to: <http://www.energy.ca.gov/contracts/index.html>. Refer to RFP #700-09-701.

Regional Pollution Prevention Centers, U.S. EPA (September 20)

The U.S. Environmental Protection Agency requests proposals for Coordination of Regional Pollution Prevention Information Network Centers. Through this RFP, EPA expects to fund a coordinator for the national network of eight regional pollution prevention information centers. \$190K expected to be available, 1 award anticipated. Responses due 9/20/10. For more info, contact Beth Anderson at Anderson.Beth@epa.gov or go to: <http://www.epa.gov/p2/pubs/grants/index.htm>. Refer to Sol# EPA-HQ-OPPT-10-06. (Grants.gov 7/22/10)

Small Producers Program, RPSEA (September 28)

The Research Partnership to Secure Energy for America (RPSEA) recently announced the 2010 Request for Proposals (RFP) for the Small Producers Program. Up to \$3.2 million is available for a variety of projects, including among others "Creative capture and reuse of industrial waste products (CO₂, produced water, excess heat) to reduce operating costs or improve recovery."

Proposals are due September 28, 2010. Early responses are encouraged. The written question and answer period ends August 27. The full RFP can be found at: http://www.rpsea.org/req_proposals/

Basic and Scientific Research, U.S. Army (September 30)

The U.S. Army Research Office has issued a Broad Agency Announcement for basic and scientific research in mechanical sciences, environmental sciences, mathematical and computer sciences, electronics, computational and information sciences, physics, chemistry, life sciences, and materials science. Responses due 9/30/11. For more info, go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=41952>. Refer to Sol# W911NF-07-R-0003-04. (Grants.gov 8/4/10)

Materials and Surface Engineering, NSF (October 1)

The National Science Foundation requests proposals for Materials and Surface Engineering. This program supports fundamental research leading to a better understanding of the effect of microstructure, surfaces, and coatings on the properties and performance of engineering materials; and the ultimate control of these properties through material design. Responses due 10/1/10. For more info, contact Clark Cooper at ccooper@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13356. Refer to Sol# PD-10-1633. (Grants.gov 8/4/10)

Structural Materials and Mechanics, NSF (October 1)

The National Science Foundation requests proposals for Structural Materials and Mechanics. This program supports fundamental research on the behavior of civil infrastructure materials and the mechanics of structural components in the built environment. Of particular interest is research on structural components consisting of natural and synthetic materials, their response to mechanical, hydrothermal, and time-dependent loads, and their impact on life-cycle performance and sustainable development of the civil infrastructure. Responses due 10/1/10. For more info, contact Lawrence Bank at lbank@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13357. Refer to Sol# PD-10-1635. (Grants.gov 8/4/10)

Climate Change and Health, HHS

The U.S. Department of Health & Human Services requests proposals for Climate Change and Health: Assessing and Modeling Population Vulnerability to Climate Change. This RFP encourages research of risk factors of populations that lead to or are associated with increased vulnerability to exposures, diseases, and other adverse health outcomes related to climate change. For more info, including funding and program contacts, go to: <http://grants.nih.gov/grants/guide/pa-files/PAR-10-235.html>. Refer to Sol# PAR-10-235. (Grants.gov 7/21/10)

Climate Data Record Program, Commerce, NOAA (November 10)

The U.S. Department of Commerce, NOAA, requests proposals for the Climate Data Record Program. This program seeks to support the development and stewardship of Climate Data Records for the atmosphere, cryosphere, oceans, and land surface. \$2.5 million expected to be available, up to 15 awards anticipated. Letters of Interest due 9/15/10, final proposals due 11/10/10. For more info, contact Linda Statler at Linda.S.Statler-at-noaa.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=56019>. Refer to Sol# NOAA-NESDIS-NESDISPO-2011-2002566. (Grants.gov 11/10/10)

Energy Production with Innovative Methods of Geothermal Heat Recovery, DOE (November 30)

From DOE:

Funding Opportunity Announcement Number: DE-FOA-0000336

Announcement Type: Initial

CFDA Number: 81.087

Issue Date: 08/19/2010

Pre-Application Due Date: 10/01/2010, 11:59 P.M. Eastern Time

Full Application Due Date: 11/30/2010, 11:59 P.M. Eastern Time

REGISTRATION AND APPLICATION SUBMISSION REQUIREMENTS

Registration Requirements: Allow at least 21 days to complete registrations.

To submit an application under this announcement, complete the following registrations:

1. Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number, at <http://fedgov.dnb.com/webform>.
2. Register in the Central Contractor Registration (CCR) system, at <https://www.ccr.gov/>. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in CCR registration. These items are needed to submit applications in Grants.gov. Update your CCR registration annually.
3. Register in Grants.gov at <http://www.grants.gov/>. See the Organization Registration User Guide at <http://www.grants.gov/assets/OrgRegUserGuide.pdf>. The Applicant User Guide is at <http://www07.grants.gov/assets/ApplicantUserGuide.pdf>.
4. Register in FedConnect at <https://www.fedconnect.net/>; use "Register as a Vendor" link. To create an organization account, your organization's CCR MPIN is required.

Where to Download the Application Package:

Download the Application Package for this announcement at <http://www.grants.gov/>. Click on the "Apply for Grants" link; then, click on the "Download a Grant Application Package" link and follow the instructions. Insert the announcement number to download the Application Package.

Where to Submit the Application Package:

Applications must be submitted through [Grants.gov](http://www.grants.gov/) to be considered for award. Follow instructions in the User's Guide for application submissions. Applicants are responsible for verifying successful transmission, prior to the Application due date and time.

Where to Ask Questions About the Funding Opportunity Announcement Content:

To ask questions about the Funding Opportunity Announcement, use FedConnect at <https://www.fedconnect.net/>. You must be a registered user in the system and submit questions by sending messages in your FedConnect email box. Part VII of this announcement explains how to submit questions to the Department of Energy (DOE).

Where to Submit Questions About the Registrations or Systems:

DUNS & Bradstreet: govt@dnb.com

Central Contractor Registration (CCR) system: <https://www.bpn.gov/ccr/contactccr.aspx>, By phone: 866-606-8220 or 334-206-7828 (8:00 A.M. to 8:00 P.M., Eastern Time)

Grants.gov: support@grants.gov, By phone: 1-800-518-4726 (7:00 A.M. to 9:00 P.M., Eastern Time)

FedConnect: support@FedConnect.net, By phone: 1-800-899-6665 (8:00 A.M. to 8:00 P.M., Eastern Time)

RFP Announcements

Power Forecast, Haiti, TDA

The U.S. Trade and Development Agency announces its intent to request proposals to provide technical assistance to forecast future power demand in Haiti and assist governmental and private sector entities in Haiti in developing a strategy to generate, transmit and distribute power to both urban and rural areas, to encourage Haiti's recovery from the disastrous earthquake and to fuel economic growth. The assistance will include the identification, assessment and quantification of renewable energy options such as wind, solar and biomass. \$800K expected to be available. For more info, contact Jason Bell at jbell@ustda.gov or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=381bf13f574e4baee474468a6f994556&tab=core&_cview=0. Refer to Sol# CO2010510006. (FBO 6/5/10)

Southern California Edison Seeks Renewable Energy Contracts

Southern California Edison is seeking power purchase contracts for renewable energy under 20 MW in size. The power utility will buy power from solar, wind, biomass, biogas, oceanic, hydroelectric, or geothermal projects located in California. SCE is looking for projects that could be operating within three years of contract approval, expected to be January 2011.

See <http://www.brighterenergy.org/14706/brief/solar-brief/southern-california-edison-seeks-renewable-energy-contracts/> and <http://www.sce.com/EnergyProcurement/renewables/renewables-standard-contracts.htm>.

Community Environmental Demonstration Projects – Alaska (September 9)

The Alaska Native Tribal Health Consortium and RurAL CAP request proposals for Community Environmental Demonstration Projects. This initiative will support innovative projects that address approaches for enhancing human health and the environment of Tribal communities in rural Alaska. Areas of interest for demonstration projects include, but are not limited to: Climate change, indoor air quality, solid waste management, recycling, outreach materials, energy use, and pollution. \$200K expected to be available, up to 12 awards anticipated. Responses due 9/9/10. For more info, contact Desirae Roehl at droehl@anthc.org or go to: <http://www.anthc.org/chs/ces/hve/fy11solicitation.cfm>.

Greenhouse Gas Mitigation, Indonesia (September 15)

The U.S. Agency for International Development Mission in Indonesia requests applications for the Greenhouse Gas Mitigation Program. This RFP will support projects to reduce greenhouse gas emissions in both the land use/forestry sector and the energy sector. \$1.5 million expected to be available, up to 2 awards anticipated. Responses due 3/30/10 and 9/15/10. For more info, contact Dominicus Soenarno at aps10-011@usaid.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=51783>. Refer to Sol# APS-INDONESIA-10-011. (Grants.gov 2/12/10)

NV Energy Seeks Offers for Renewable Energy Credits (September 22)

NV Energy has issued a Request for Offers (RFO) for renewable energy portfolio credits from qualified renewable energy generators for a contractual time length of five to 25 years. Energy credit proposals will be considered for solar, geothermal, biomass, wind and other resources eligible for portfolio energy credits under the Nevada Renewable Portfolio Standard and will require certification from the Public Utilities Commission of Nevada.

Eligible renewable resources must be either in operation or have a commercial operation date no later than July 1, 2013. Minimum bid size is 450 kW; proposals with multiple sites of no less than 150 kW at each site. Go to www.NVEnergy.com/PCOnlyRFO; proposals are due by 5 p.m. (PDT) on Sept. 22, 2010.

See <http://www.prnewswire.com/news-releases/nv-energy-seeks-offers-for-renewable-energy-credits-99578969.html>.

Black Carbon, Climate and Air Quality (September 22)

The U.S. Environmental Protection Agency requests proposals for Black Carbon's Role in Global to Local Scale Climate and Air Quality. This RFP will support areas including but not limited to: Emission source research, the global to local scale emissions inventory, and co-pollutants. This RFP will also support opportunities for early

career projects. \$7 million expected to be available, up to 9 awards anticipated. Responses due 9/22/10. For more info, contact Bryan Bloomer at bloomers.bryan@epa.gov or go to: http://www.epa.gov/ncer/rfa/2010/2010_star_blackcarbon.html. Refer to Sol# EPA-G2010-STAR-L1 and EPA-G2010-STAR-L2. (Grants.gov 5/19/10)

Environmental Scientist Award, Health and Human Services (September 30)

The U.S. Department of Health & Human Services, National Institutes of Health, requests proposals for the Outstanding New Environmental Scientist Award. This RFP will support early stage investigators committed to research in problems related to environmental exposures. Examples of relevant toxicants include, but are not limited to: Industrial chemicals or manufacturing byproducts, pesticides, air pollutants and other inhaled particulates. \$3.6 million expected to be available, up to 6 awards anticipated. Letters of Intent are required and are due 9/30/10, final proposals due 10/29/10. For more info, contact Carol Shreffler at shreffl1@niehs.nih.gov or go to: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-10-004.html>. Refer to Sol# RFA-ES-10-004. (Grants.gov 6/18/10)

U.S. DOE Office of Science (September 30)

The U.S. Department of Energy, Office of Science, announces its continuing interest in receiving grant proposals in areas including, but not limited to: Basic Energy Sciences, Biological and Environmental Research, and Advanced Scientific Computing. Proposals accepted through 9/30/10. For more info, including program-specific contacts go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000179&agency=DOE>. Refer to Sol# DE-FOA-0000179. (Grants.gov 12/4/09)

Clean Energy RFP Offering up to \$150K, NIREC (October 5)

The Nevada Institute for Renewable Energy Commercialization (NIREC) has opened a new call for proposals supporting clean energy innovations. The new clean energy RFP offering is up to \$150,000 in funding and services per project

About the RFP

Pre-Proposal Due Tuesday, September 14, 2010, 2:00 pm PDT

Project Proposal Due Tuesday, October 5, 2010, 2:00 pm PDT

Apply to one of two award tracks: NIREC Research Partner Track (DRI, UNR, UNLV, UC Davis) or U.S.-based Early-Stage Company Track

Through this award, NIREC provides funding and pre-commercialization services worth \$150,000. Applicants submit a budget of up to \$100k and NIREC provides up to an additional \$50k in business planning services in the form of an Entrepreneur-in-Residence (EiR) who guides the commercialization process. At the end of a successful NIREC engagement, projects will be well on the way to achieving that next very important funding milestone toward commercialization.

No cost sharing or program fees are required. To ensure NIREC can continue to provide valuable funding and services, NIREC expects to share in the success of the businesses it helps cultivate. Get the application guide and application documents: <http://www.nirec.org/rfp2010Apply.html>

Power, Controls and Adaptive Networks, NSF (October 7)

The National Science Foundation requests proposals for Power, Controls and Adaptive Networks. This program supports distributed control of multi-agent systems with embedded computation for sensor and adaptive networks. This program emphasizes electric power networks and grids, including generation, transmission and integration of renewable, sustainable and distributed energy systems, such as fuel cells and micro-turbines in large power networks; high power electronics and drives; and understanding of associated regulatory and economic structures. The program also emphasizes energy scavenging and alternative energy technologies, including solar cells, ocean waves, wind, geothermal, low-head hydro, and the hydrogen economy. In addition, the program supports generation and integration in the National Grid (InterGrid), and interdependencies of critical infrastructure in power and communications. Responses due 10/7/10. For more info, contact Radhakishan

Baheti at rbaheti@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13380. Refer to Sol# PD-10-1518. (Grants.gov 2/17/1)

Works Procurement Notice, Drilling Of Geothermal Wells in Roseau Valley, Commonwealth of Dominica (October 25)

The Government of the Commonwealth of Dominica through the Ministry of Public Works Energy and Ports – Geothermal Project Management Unit, intends to procure the services of a drilling contractor to drill at least three geothermal wells in the Wotten Waven / Laudat area. The objective of the project is to prove the existence of high enthalpy geothermal resource suitable for commercial generation of electric power and to determine the capacity for sustainable exploitation. Services to be provided by the contractor include mobilization and demobilization of the drilling rig and associated equipment, drilling of at least three wells, provision of cementing, drill-pipe inspection, and vertical drilling expertise. The provision of drilling mud and related additives and well testing services will also be required. Deadline is 9:00am Eastern Caribbean Time on October 25, 2010.

Attendance at an information meeting and site visit on August 17, 2010, at 09:00 am is strongly recommended. Contact the Project Management Unit, Ministry of Public Works, Energy and Ports, Government Headquarters Roseau. Telephone: (767) 266- 3616/8; 266 -3294/3296 Fax: (767) 448-0182. Email: pmu.geotheremal@gmail.com; geothermal@dominica.gov.dm.

Send questions in writing to geothermal@dominica.gov.dm and c/o The Project Coordinator, Geothermal Project Management Unit, Ministry of Public Works, Energy & Ports, 3rd Floor Government Headquarters, Roseau, Commonwealth of Dominica, mentioning the publication reference (EuropeAid/130061/D/WKS/DM) at least 21 days before the deadline for submission of tenders. The Contracting Authority must reply to all tenderers' questions at least 11 days before the deadline for submission of tenders. Eventual clarifications or minor changes to the tender dossier will be published at the latest 11 days before the submission deadline on the EuropeAid website at <https://webgate.ec.europa.eu/europeaid/online-services/index.cfm?do=publi.welcome>.



Events

Happening This Week

Asia-Pacific Clean Energy Summit and Expo, CTSI, Honolulu, HI (August 30 – September 2)

Conference website with the full program, sponsors, etc. is <http://asiapacificcleanenergy.com/>

Press Release, July 27 — In partnership with the State of Hawai'i, the Clean Technology and Sustainable Industries Organization (CTSI) will coordinate the second annual Asia-Pacific Clean Energy Summit and Expo in Honolulu from August 30 through September 2.

As an island state, Hawai'i's expedited need for renewable energy and self-sufficiency makes it a perfect location for innovators to develop and implement new technologies on the state's microgrids. Additionally, its abundant wind, solar, and ocean resources provide a unique opportunity for partnerships between industry, government and power companies to demonstrate project success.

"The State of Hawai'i welcomes energy industry experts and policy decision-makers from around the globe to the Asia-Pacific Clean Energy Summit and Expo which will focus on the importance of developing a clean energy economy and increasing the energy security of our state, nation and the Asia-Pacific region," said Governor Linda Lingle. "Long-term energy security and independence can be achieved with sustainable technologies, and Hawai'i is working on expanding partnerships that will help us find, implement and manage those assets.

"The Hawai'i Clean Energy Initiative partnership between the State of Hawai'i and U.S. Department of Energy was a year old when we held the first energy summit and expo last year. This year, we look forward to discussing our state's tremendous progress to move Hawai'i toward our goal of 70 percent clean energy by 2030," Governor Lingle added.

To showcase the growing early clean technology success and opportunities in Hawai'i, the Asia-Pacific Clean Energy Summit program focuses on topics such as electric vehicle transportation, grid integration of renewable energy, energy security, efficiency, regulatory frameworks, and financing of new renewable energy technologies.

Top-level government leaders scheduled to speak at the Summit include Linda Lingle, Governor of the State of Hawai'i; U.S. Senator Daniel K. Inouye; Patricia Hoffman, U.S. Department of Energy; Jerry Ou, Taiwan Director General of Energy; Governor Luo Baoming from Hainan Province, China; Thomas Hicks, Deputy Assistant Secretary of the Navy for Energy; and over 100 other top energy officials representing organizations such as: Hawaiian Electric Company, Nissan, Tesla, Lockheed Martin, Siemens Energy, U.S. Department of Navy, Honeywell, Pacific Northwest National Laboratory, Hawai'i Public Utilities Commission, SAIC, Johnson Controls, Chevron, Sandia National Laboratories and the U.S. Department of Energy.

"The quality of speakers and sponsors of the event truly highlight the importance of clean energy in Hawai'i and the commitment to testing new technologies in the state," stated CTSI Executive Director, Patricia Glaza. "Hawai'i is the perfect gateway to bring partners together from the U.S. mainland and Asia-Pacific to help ensure the success of the state's clean energy goals."

Sponsors of the event include the State of Hawaii, Nissan, Lockheed Martin, Hawaiian Electric Company, Green Power Inc., AECOM, FirstWind, Sempra Energy, Pacific Biodiesel, Inc., General Atomics, Science Applications International Corporation (SAIC), Honeywell, Covanta, General Motors, Deloitte, ClearFuels Technology Inc., AV Inc., Phoenix Motorcars, Hawaii Powered, The Gas Company, Spray Foam Hawai'i, and Puna Geothermal Venture.

In addition, the Summit will include an exposition that allows summit participants to view first-hand the clean energy initiatives being pursued around the world and highlights Hawai'i's advances as an early adopter of clean technology solutions. Countries and organizations will exhibit their efforts, services and innovations to international governments, investors and corporations. Current and future technologies in smart grid, building efficiency, fuel cells, biofuels, energy storage, waste and recycling, biomass, solar, wind, hydroelectric, and geothermal energy will be showcased at the summit to increase awareness and find possible funding opportunities and partnerships.

In 2009, the inaugural Summit brought in approximately 800 attendees representing 14 different countries and territories including: American Samoa, Western Samoa, Fiji, Australia, Canada, China, Hong Kong, India, Indonesia, Japan, New Zealand, Philippines, Malaysia, Marshall Islands, Micronesia, Singapore, South Korea, Solomon Islands, Taiwan, Palau, and Guam, as well as the United States. This year, event organizers expect over 1,200 participants from around the globe. To learn more and register, visit <http://asiapacificcleanenergy.com/>.

New This Week

Vulcan Power Company Open House, Reno, Nevada (August 27)

Vulcan Power Company is relocating its headquarters to Reno, Nevada and will host an open house August 27. CEO Craig Mataczynski will discuss business, current Nevada drilling sites, and plans for expansion. Senate Majority Leader Harry Reid (D-Nev.) will speak on Nevada's role in the geothermal industry. See <http://www.rgj.com/article/20100820/BIZ/8200373/Vulcan-Power-Company-relocates-to-Reno>.

GEA Events

GEA Annual Members Meeting and Policy Workshop, Sacramento, CA (October 23)

On Saturday, October 23rd from noon to 5pm, GEA will hold its "Annual GEA Member's Meeting and Policy Workshop" at the Hyatt Regency in room C. As part of the Member's Meeting, GEA staff will present successes, activities, and direction for 2010 and beyond and open floor to member discussion. As part of the Policy Workshop, keynote speakers from federal and state government will provide expert presentations on the latest

regulatory and legislative developments and discuss trends shaping politics in Washington, DC and state capitols. Pulling the two parts of the meeting together will be a discussion of what it will take to sustain long-term growth in the geothermal industry. There is no admission charge for GEA Members and 2010 Geothermal Energy Expo exhibitors. The meeting is also open to the GRC members and others on a space available basis. For more information contact Kathy Kent kathy@geo-energy.org or Karl Gawell karl@geo-energy.org.

GEA Geothermal Energy Expo and GRC Annual Meeting, Sacramento, CA (October 24-27)

Tweeting about your GEA Expo plans? Use tag #GEAEXPO. And follow us here: @GEAGeoEnergy.

With the GEA Geothermal Energy Expo® right around the corner, GEA has opened visitor registration to walk the halls of the biggest geothermal expo in the world. Registration for visitors is available at: <http://www.geothermalenergy2010.com/visitors.asp>.

Come see the more than 150 exhibitors of this years Expo including: 101 Pipe & Casing, Inc., Alstom Power, Ashland, Inc., Atlas Copco Mafi-Trench Company LLC, Ausenco PSI, Baker Hughes, Bakersfield Pipe and Supply, Baroid Industrial Drilling Products, BM Engineering & Construction Comp., Boart Longyear Drilling Services, Boart Longyear/Energy Products, Boise State, Bolttech Mannings, Brush Turbogenerators, BS&B Safety Systems, LLC, Bureau of Land Management, CA Division of Oil, Gas, & Geothermal Resources, California Energy Commission, Cameron, Campbell Scientific, Chevron Global Lubricants, City of Reno, Composite Cooling Solutions, Cryostar, CSE Engineering, Inc., Department of Energy, Geothermal Technologies Program, Department of Navy, Geothermal Program Office, Dewhurst Group, DHI Services, Inc., DOSECC Exploration Services, Dresser-Rand, Ecology & Environment, Inc., ElectraTherm, Inc., Emerson Process Management, EMPSi, Ensign Energy, EvapTech, Inc, Expro Americas LLC, Freemyer Industrial Pressure, Fuji Electric, GEFCO- Newsom Industries, Geo-Heat Center, George T. Hall Company, Geotech Ltd., GeoTek Energy, LLC, Geothermal Development Associates, Geothermal Education Office, Geothermal Energy Association, Geothermal Resources Council, GeoThermHydro, Gradient Geophysics, Inc., Great Basin Center for Geothermal Energy, Halliburton, Holland & Hart LLP, Holtec International, Horizon Well Logging, Ind Valco, Reno-Win, & Beric Valves, Industrial Cooling Solutions, Industrial Tests, Inc., Institute of Earth Science & Engineering, Islandsbanki, Itasca International Inc., ITT, JBR Environmental Consultants, Inc., JD Rush Company, Kelly Pipe, Kiewit/TIC, Kuster Company, L.A. Turbine Corporation, Layne Christensen, Linear Power, Machine Support Technologies, Inc., MadgeTech, Inc., Magma Energy Corporation, Major Drilling America Inc., MEGTEC Systems, Mill Man Steel, Mitsubishi Power Systems Americas, Nalco, Nash, A Gardner Denver Product, National Oilwell Varco, Nevada Commission on Economic Development, Ormat Technologies, Inc., Pacific Process Systems, Inc., Perma Works LLC, Plymouth Tube Company, Potter Drilling, Inc., POWER Engineers, Inc., PowerChem Technology, Pratt & Whitney Power Systems, Precise Propellant Stimulation, LLC, Processes Unlimited International Inc., Quantec Geoscience, Rain for Rent, Ram Power, Raser Technologies, Rattler Energy, Rigger Engineering, RMT, Inc., Rocky Mountain Oilfield Testing Center, Rotork Controls, Inc., Ruen Drilling, Inc., Sacramento Municipal Utility District (SMUD), Schlumberger, Siemens Industry, Inc., SnapOn Industrial, SNC-Lavalin Thermal Power, SpecTIR, SPX Corporation, Stoel Rives LLP, Stork H&E Turbo Blading Inc., Sunrise Engineering, Inc., TAS, TBA Power, Inc., Team Australia Geothermal, Tenaris, The Shaw Group, ThermaSource, LLC, Tiger Energy Services, Titan Metal Fabricators, TIX Corporation, TNG Energy Services, Inc., Toshiba International Corp, TRE Canada Inc., Tricor Metals, TurboCare, Tyco Flow Control, Vooner FloGard Corporation, WEC Welding and Machining, Well Analysis Corporation, Wellons Water Technology, Western Cultural Resource Management, Inc., Western Environmental Testing Laboratory, Wolseley, Wolverine Tube, Inc., Wood Group Field Services, WorleyParsons, Zapata Geophysics, and Zonge Engineering.

Every year, the Geothermal Energy Expo® hosts the world's largest gathering of vendors providing support for geothermal resource exploration, characterization, development, production and management. It provides a unique opportunity for exhibitors to showcase their projects, equipment, services and state of the art technology to the geothermal community. The Expo is held in conjunction with the GRC Annual Meeting, www.geothermal.org.

Last year's count was 2300 participants and planning shows this year's numbers will top it. This year the Expo will be held in Sacramento, CA at the Sacramento Convention Center Complex, a component of the City of Sacramento Convention, Culture and Leisure Department.

Exhibitor Benefits include:

- * 50-word company listing in the official event guide
- * Exhibit Booths are 10' x 10' and has an 8' high back drape and 3' high side drapes
- * A 7" x 4" identification sign with the Exhibitor's name and space number
- * Each booth will also include a table, two chairs and a wastebasket.
- * Enhanced Exhibitor Listing on event website, www.geothermalenergy2010.com
- * For every 100 sq ft exhibitors receive 3 booth staff passes
- * Complimentary Expo Hall passes to distribute to your clients and customers

To view the floor plan for the 2010 Expo, please go to: http://www.geothermalenergy2010.com/floor_plan.asp

To register as an Exhibitor, please go to: <http://www.geothermalenergy2010.com/registration.asp>

To view the Exhibitors contract for 2010, please go to: <http://www.geothermalenergy2010.com/contract.asp>

More information including sponsorship opportunities, room block, and special events coming soon. We are looking forward to another great Expo! Please do not hesitate to let us know if you have any questions.

Contact: Kathy@geo-energy.org

Geothermal Energy Expo Sponsorship Opportunities

Sponsorship Opportunities – contact Kathy Kent at kathy@geo-energy.org

Water Sponsor - \$3,500 (Exclusive)

SOLD: TNG Energy Services

Benefits:

- Sponsor logo placement on water station and Eco Sports Bottle to be given out to Expo attendees
- Recognition on GEA/GRC site
- Recognition on signage on Expo Hall

Exhibition Aisle Signs – 1/ Aisle Section - \$1,000 (Limit 8)**Benefits:**

- Logo on aisle sign
- Proportional logo on event guides

Poker Tournament - \$5,000 (Exclusive)**Benefits:**

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

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

SOLD: Geothermal Resource Group

Benefits:

- 20 x 20 space with two desktop computers with internet connection and printer in 2010 Expo Hall
- Offers the opportunity for technical and management professionals from around the world to come together and networking/round tables and chairs
- Company logo on signage of the “Cyber Space”
- Company’s website set to default for all computer screen savers
- Recognition on signage on Expo Hall

Expo Triangular Eco-Highlighters - \$2,500 (Exclusive)**Benefits:**

- Company name and logo on Expo Hall pens given out with attendee bag
- Sponsor receives recognition on GEA website and on Expo Guide

Expo Eco-Pens - \$2,000 (Exclusive)

Benefits:

- Company name and logo on Expo Hall pens given out with attendee bag
- Sponsor receives recognition on GEA website and on Expo Guide

GRC Annual Meeting and GEA Geothermal Energy Expo® Mutual Sponsorships 2010

Sponsorship Opportunities – contact Kathy Kent at kathy@geo-energy.org

Platinum Level - \$30,000 (Limited to maximum of 5 sponsors)

SOLD: Halliburton

Benefits:

- Sponsorship of Opening Reception, Sunday evening, October 24, 2010
- Formal acknowledgement at Opening Reception, Sunday evening, October 24, 2010
- (1) 10'x20' booth space within Expo
- (3) complimentary full conference passes
- Prominent display of name/logo on event guides
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A full page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Gold Level - \$15,000 (Limit 5)

Benefits:

- (1) 10'x10' booth space within Expo
- (2) complimentary full conference passes
- Prominent display of name/logo on event guides
- Formal acknowledgement at Opening Reception
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A half page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Silver Level - \$7,500 (Unlimited)

SOLD: City of Reno

Benefits:

- Proportional logo on event guides
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A quarter page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Breaks

Afternoon Coffee and Sweets, Monday - \$5,000 (Exclusive)

SOLD: The Shaw Group

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Morning Coffee, Tuesday - \$2,500 (Exclusive)

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Afternoon Coffee and Sweets, Tuesday - \$5,000**Benefits:**

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Morning Coffee, Wednesday - \$2,500**Benefits:**

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Variety Items**Neck Wallets - \$10,000 (Exclusive)****SOLD: Calpine Corporation****Benefits:**

- One color sponsor logo placement on 2010 neck wallets to be worn by all attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site
- Recognition on signage on Expo Hall

Annual Meeting and Expo Delegate Bags - \$15,000 (Exclusive)**Benefits:**

- One color sponsor logo placement on bags to be given out to all of the 2010 attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site
- Company literature inserted into attendee bags
- Recognition on signage in Expo Hall

Why Should You Attend GEA Events?

As the national trade association for the geothermal industry, the Geothermal Energy Association (GEA) strives to create and deliver educational events involving the full range of the geothermal industry, reflecting the dynamic growth of the geothermal market, and communicating the benefits of geothermal energy to all. GEA events offer important opportunities to learn and network within the geothermal community, and to inform and educate companies and organizations outside today's industry that are interested in learning more about geothermal energy. The revenue generated from GEA events is used to advance the goal of the GEA, "to expand the production and use of geothermal energy in the United States and around the world." The revenue supports GEA's workshops and events, communications activities, outreach efforts, policy related activities and analysis, internet publications, and other initiatives designed to help achieve this goal. ONLY GEA puts your dollars to work in all of these ways to advance the future of the geothermal energy industry. And, GEA does not sell your email or postal address to junk mailers or spammers.

To keep track of new events and changes to this calendar go to: www.geo-energy.org.

Other Events**Geothermal Investment Forum and Networking Event, CanGEA, Toronto, ON, (September 14)**

Canadian Geothermal Energy Association

<http://www.cangea.ca/>**XVII Congress of the Mexican Geothermal Association, Morelia, Mich., Mexico (October 8)**

Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana)

<http://www.geotermia.org.mx>

Caribbean Renewable Energy Forum, the Bahamas (October 13–15)

To view the latest agenda please follow this link: www.caribbeanenergyforum.com/agenda.php. To qualify for a 15% early bird discount on the registration fee, please register by July 16th. To register please follow this link: www.caribbeanenergyforum.com/attend.php?sub=register.

Australian Geothermal Energy Conference, SA, Australia (November 16–19)

Australian Geothermal Energy Association

<http://www.ausgeothermal.com/>

GeoPower Europe, European Geothermal Energy Council, Paris, France (December 8–9)

For the current agenda and to register, visit

<http://www2.greenpowerconferences.co.uk/EF/?sSubSystem=Prospectus&sEventCode=GE1012FR&sSessionID=8ae2803966ed82ae2265bfed68f83b92-1060598>.

POWER-Gen International, Orlando, FL (December 14–16)

<http://www.power-gen.com/index.html>

Renewable Energy World North America 2011, Tampa, FL (March 8–10, 2011)

<http://www.renewableenergyworld-events.com/index.html>

Geothermal Energy Utilization Associated with Oil and Gas Development, SMU Geothermal Laboratory, Dallas, TX (June 13–15, 2011)

<http://smu.edu/geothermal/>

GEOHERMAL ENERGY WEEKLY

A newsletter for the geothermal industry written by Leslie Blodgett and Karl Gawell

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209 Pennsylvania Avenue SE, Washington, D.C. 20003

Phone 202-454-5261 Fax 202-454-5265

research@geo-energy.org

