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National News



Kerry Bill Will Spur Clean Energy Production

Press Release, August 6, Washington DC — Senator John Kerry (D-Mass.) has introduced legislation to reduce our dependence on foreign oil and excite clean energy production and technology across the country.

The Clean Energy Technology Leadership Act of 2010 will provide tax incentives for clean energy manufacturing, renewable energy, and conservation.

“While we continue the fight to bring comprehensive energy legislation to the floor of the United States Senate, it’s essential that we take action to start moving in the right direction,” said Sen. Kerry. “Providing incentives for clean energy production will drive our economy forward and take us one step closer to reducing our carbon emissions and ending our dependence on foreign oil.”

The Clean Energy Technology Leadership Act of 2010 will:

- provide additional funding for the advanced energy manufacturing credit and uncap the credit for solar energy property, fuel cell power plans, and advanced energy storage systems, including batteries for advanced vehicles;
- extend and modify tax incentives for new energy efficient homes, nonbusiness energy property improvements, and energy efficient commercial buildings;
- encourage clean transportation by providing incentives for natural gas heavy vehicles;
- extend the excise tax credit for biodiesel and renewable diesel retroactively for 2010 and through 2012;
- modify the cellulosic biofuel tax credit to include algae based fuels;
- extend the credit for domestic manufacturers of energy appliances;
- provide an additional \$3.5 billion for clean renewable energy bonds; AND
- extend the research and development tax credit retroactively for 2010 and through 2012 and provide an additional 10 percent credit for qualified advanced energy research expenditures.

The Kerry legislation would also extend through 2012 the Section 1603 tax grant program of the stimulus bill, a priority for many renewable energy companies. It also “clarifies that real estate investment trusts and public power would be eligible for the program,” a fact sheet from the Senator’s office states.

See <http://kerry.senate.gov/press/release/?id=91fe4bab-d8bf-4239-9da4-815dab5228ef>.

Speculation on Contents of Oil Spill Bill Continues

After finding opposition and a shortage of votes for energy legislation that would deal with the oil spill and other disasters, Majority Leader Harry Reid has said he will once again bring altered legislation to the Senate floor next month. Reid is being lobbied by Democrats to add a renewable energy standard to the oil spill bill, and Sen. Tom Udall has said there could be as many as 62 senators ready to support it.

But Sen. Jeff Bingaman said last week he doubts Congress will pass anything before Election Day. “I think the Republicans are reluctant to support anything that might result in another signing ceremony between now and the election,” he said.

White House energy and climate advisor Carol Browner said on NBC’s “Meet the Press” that there is still a chance to get climate legislation signed during the lame-duck session with cap-and-trade measures included.

But Bingaman disagrees. “I think it’s going to be difficult for the Senate to pass any kind of cap-and trade legislation ... I’ve thought that all along.”

The Senate will be in recess until September 13, and the House will be in recess until September 14.

See <http://www.politico.com/news/stories/0810/41025.html> and

Bingaman Introduces Legislation to Improve Loan Guarantee Program

Last week, Senators Jeff Bingaman (D-NM), Jeanne Shaheen (D-NH), Barbara Boxer (D-CA), and Dianne Feinstein (D-CA) introduced legislation (S. 3746) to amend the Energy Policy Act of 2005 to improve the loan guarantee program of the Department of Energy under title XVII of the Act.

See http://www.opencongress.org/people/show/300009_Jeff_Bingaman.



Company News

ACORE: Michael Eckhart to Retire, Korn/Ferry to Select New President

Press Release, August 6 —The American Council On Renewable Energy (ACORE) enters a new phase as founding President Michael Eckhart has announced his retirement after nine years leading the organization, and the Board of Directors has appointed a search committee and retained the executive search firm Korn/Ferry International.

ACORE, a 501(c)(3) nonprofit organization, has emerged since its founding in 2001 to have over 600 organizational members, an Advisory Board of 25 noted leaders in renewable energy, a strong Board of Directors elected by the members, and a staff and intern team of 25 people in Washington, DC. ACORE has been a leader in advancing renewable energy solutions in the United States, specializing in research, education, communications and convening. It produces four national conferences each year in business, finance and policy, and maintains effective relations with renewable energy leaders and organizations around the world.

ACORE received the prestigious Skoll Award for Social Entrepreneurship in 2008, being selected as one of the most innovative and impactful nonprofit organizations in the world.

"It has been an extraordinary honor to have had the opportunity to work with such fabulous people these years, building ACORE as a group endeavor, and I especially thank our many dedicated members for their support," said Eckhart. "It will be a ten-year effort by the time we complete the transition to a new President. Ten years is a good period of time for a founder to lead, and I look forward to supporting a new leader who will take ACORE and renewable energy to the next level."

The search committee is being led by ACORE's Co-chairmen of the Board of Directors, John Geesman and Dan Reicher.

"We have exceptionally large shoes to fill, and are pleased to have a world class firm helping us to do that. We are hopeful of identifying a successor to Mike by year-end," said Geesman.

"This is a bittersweet moment with Mike stepping down after a successful decade building ACORE and the prospect of a new President taking the influential organization to an even higher level," said Reicher.

The executive search firm Korn/Ferry International has been retained to conduct the search. A position description will be posted on ACORE's web site <http://www.acore.org/> by August 31, 2010. The contact for the search at Korn/Ferry is Charles Ingersoll, Senior Client Partner, (202) 955-0947.

See http://www.acore.org/about/press_releases.

Calpine Corporation: The Geysers Highlighted on CBS Sunday Morning Segment

The Geysers geothermal field, the largest collection of geothermal energy plants in the world, was highlighted this week on *CBS Sunday Morning: Alternative Energy: Will U.S. Lead or Follow?*

"We're using the heat of the Earth, that's what geo-thermal means, heat of the Earth," said Mike Rogers of the Calpine Corporation, which runs most of the plants in the complex. "In terms of size, The Geysers provides enough power for a city about the size of San Francisco," he said.

The Geysers, located north of San Francisco, includes 2-mile-deep wells drilled through bedrock and 90 miles of pipes.

See <http://www.cbsnews.com/stories/2010/08/15/sunday/main6774678.shtml>.

Ormat Technologies: First Renewable Tax Abatement in State Granted

This week, Nevada's energy commissioner awarded the state's first renewable energy tax abatements to Ormat Technologies. Ormat will use the associated \$10.4 million in property and sales and use taxes over 20 years in development of a geothermal plant in Pershing County. The 15-MW plant will create about 60 construction jobs and will provide energy to more than 11,000 homes over the next 20 years.

See <http://www.rgj.com/article/20100811/BIZ/8110411/>.

Raser Technologies: Second Quarter 2010 Financial Results Announced

Press Release, August 11 — Raser Technologies, Inc. an energy technology company, today announced financial results for the second quarter and six-month period ended June 30, 2010.

Recent Highlights:

-- Entered into an agreement to repay a substantial portion of the debt held by the senior secured lender of Thermo No. 1. Under the arrangement, the lender received an immediate payment of \$27 million out of project escrow accounts and will waive compliance with certain debt-related covenants and obligations for the next year. In addition, Raser will make an additional payment of up to \$6 million before June 29, 2011. Over the next 12 months, Raser plans to sell certain assets, which could help establish the value of other geothermal interests in Raser's portfolio as well as further capitalize the company and pay down debt.

-- Announced that Pacific Gas & Electric (PG&E) will be the first company in the United States to take delivery of Raser's new extended range electric (E-REV) fleet trucks, designed to achieve an average of 100 miles per gallon in typical daily driving when recharged at night from a typical household outlet. The extended range electric pick-up truck can nominally drive the first 40 miles on powerful lithium-ion batteries. It targets continued driving over 300 miles by generating its own electricity from a small onboard gasoline-powered generator or "range extender." Raser expects to deliver to PG&E the first two E-REV fleet trucks modified with Raser's E-REV powertrain for initial testing and demonstration before the end of 2010. Raser expects to then build up to 30 more test and validation vehicles in 2011 for internal and fleet testing, followed by initial production fleet deliveries in 2012 and potential retail customer vehicles in 2013.

-- Began drilling at Lightning Dock project located in the Animas basin in southwestern New Mexico. The Lightning Dock area is one of the most studied, undeveloped geothermal resources in the entire United States. Numerous wells have been drilled since the 1970's, providing valuable geological information. Ultimately, Raser believes the Lightning Dock project could support a 15 megawatt power plant.

-- Signed a non-binding Memorandum of Understanding (MOU) with Hyundai Heavy Industries on June 28, 2010. The MOU reflects Raser's and Hyundai's intent to collaborate to jointly develop renewable energy and electric vehicles. Raser anticipates the MOU will set into play a broader long-term relationship to develop renewable energy in the western U.S. utilizing Raser's resource portfolio and Hyundai's renewable energy equipment manufacturing capabilities and to develop the first phase of commercial production of electric fleet vehicles utilizing Hyundai's high tech engineering and manufacturing capability and Raser's powertrain technology. The

MOU contemplates development of a 5 megawatt solar power generation project and the production of 3 extended range electric trucks.

-- Hired four former General Motors executives to lead Raser's Plug-In Hybrid Electric Vehicle (PHEV) program for fleet trucks, including David J. Stenson, Nicholas Zielinski, Joseph R. Katona and William G. Shikany. All four new executives are based in Detroit, Michigan.

"We are committed to developing renewable energy projects and electric vehicles as indicated by our recent MOU (Memorandum of Understanding) with Hyundai Heavy Industries (HHI)," said Raser Chief Executive Officer, Nick Goodman. "HHI selected Raser as a development partner because of our leadership in plug-in hybrid trucks as well as our sizable holdings of renewable resources. In addition, we recently announced that PG&E will take delivery of two of Raser's E-REV (extended range electric vehicles) fleet trucks modified with Raser's E-REV powertrain for initial testing and demonstration before the end of 2010 and Raser has an aggressive schedule for getting these trucks developed for commercial sale over the next several years."

"During the quarter we made significant progress at our Lightning Dock project re-entering well 55-7. While the pump test is ongoing, initial indications are encouraging," Mr. Goodman added.

For more, see http://www.marketwatch.com/story/raser-technologies-announces-second-quarter-2010-financial-results-2010-08-11?reflink=MW_news_stmp.



Renewable Energy and Climate Change

Bonn Talks End Amid Growing Pessimism

From *EESI Climate Change News* — On August 6, delegates concluded a week of negotiations in Bonn, Germany, as part of the United Nations Framework Convention on Climate Change (UNFCCC). Instead of producing a more concise version of the draft text produced at the Bonn talks held in June, the conference produced a longer document full of amendments. Once again, disagreements over emissions reductions and climate change financing between developing and developed countries surfaced. One issue of contention was the pledge by rich countries to give \$100 billion to developing countries by 2020 to help adapt to climate change. Developing countries have suggested that \$100 billion will not be enough. "It sounds very large," said Dessima Williams, the Grenadian delegate on behalf of low-lying island states. "For the donor countries it is a lot to ask taxpayers to pay. But you must weigh that against the need. . . ." of the developing countries which will be hardest hit by climate change. Another issue was whether or not the onus to reduce greenhouse gas (GHG) emissions should only be on developed countries or if developing countries should have to reduce emissions as well. Lastly, the failure of the U.S. Senate to pass a climate and energy bill this summer has been taken as proof of U.S. lack of commitment to reduce GHG emissions. "That has been taken as a signal by some that nothing can occur," said Williams.

For additional information see: [BusinessGreen](#), [AP](#), [Reuters](#).



State News

Alaska: First Well Completed at Naknek; Second Well Underway

An article on alaskadispatch.com describes a project underway by Naknek Electric Association that is set to be the first utility-grade geothermal plant in Alaska. A first well, drilled earlier this summer cost \$20 million. Drilling on a second, \$9 million well is expected to begin this fall, and a third well is planned.

The 25-MW plant could be ready by 2012. King Salmon, 300 miles south of Anchorage will be tied in to the new power source as well as Naknek and South Naknek. Eventually all 28 villages located in the Bristol Bay region are expected to be connected to the alternative energy grid. Electric bills could go down by 70%.

NEA has received about \$3.5 million from state and federal grants and about \$20 million of the next phases will be covered by grant money. NEA will need to front about \$32 million on top of the \$20 it has already contributed for the total \$52 million estimated to get the plant up and running.

"Despite its bounty, the increasing and unpredictable cost of fossil fuel energy is destabilizing rural communities," wrote L. Tiel Smith, resource manager for Bristol Bay Native Corporation, in a letter of support for the project. "Lowering the cost of energy will radically improve local economies, enhance resource development and preserve the culture."

See <http://www.alaskadispatch.com/dispatches/energy/6285-geothermal-energy-heats-up-in-king-salmon>.

Alaska: Hot Geothermal Resources Found in Akutan

The City of Akutan has produced water topping 360°F from the first of two geothermal energy wells being developed for the city. Drilling began in July 2010. The project's team will now use test results to complete a preliminary design of the system and will develop cost estimates.

"The Akutan geothermal resource is very hot at exceptionally shallow depths," said Project Manager Amanda Kolker. "This, in addition to the remoteness of Akutan Island, has made the drilling program logistically challenging. But it is worth it. The results have already exceeded our expectations. Before drilling commenced, we could only speculate about the resource. All evidence pointed towards a high-quality and relatively accessible geothermal resource within several miles of the village, but now we have proof. We are very encouraged by the results so far," she said.

See <http://www.renewableenergyworld.com/rea/news/article/2010/08/akutans-geothermal-exploration-paying-off>.

California: Geothermal Project to Reduce Amount of Water Used

The Imperial Irrigation District is involved in five renewable energy projects that could add 110 MW of electricity to its energy supply by 2015. The projects will be developed from a variety of resources, including geothermal energy. The proposed GTherm geothermal project would heat fluid through an underground heat exchange, using significantly less water than traditional geothermal plants, Carl Stills, IID energy manager and assistant of geothermal development told press. "That could revolutionize geothermal and really help the region use a lot less water," Stills said.

The cost of energy in the state is expected to increase as new projects come about and the state works toward its goal of 33% of power from renewable sources by 2020. IID energy rates could rise by 10% by 2015, and the Los Angeles Department of Water and Power expects to see a 25% energy rate increase, due to the cost of technology for renewable sources

See

http://fwix.com/sd/share/2b160bf431/renewable_energy_would_lead_to_10_percent_rate_increase_by_2015.

Hawaii: Israeli Diplomat, State Leaders Discuss Water and Geothermal Projects

Los Angeles-based Consul General Jacob Dayan, Israel's senior diplomat in the Southwestern U.S., met with government and community leaders in Hawaii to discuss working together on projects including water desalination and geothermal power.

See <http://www.staradvertiser.com/news/breaking/100185604.html>.

Louisiana: Geological Survey Director Joins Geothermal Database Project Board

Professor Chacko John, director and state geologist of the Louisiana Geological Survey (LGS) has been appointed to the National Scientific Advisory Board for a project to create a national geothermal database. The project is managed by the Arizona Geological Survey, and the 50 U.S. state geological surveys are participating.

The LGS will gather information on geopressured-geothermal resources on the Gulf Coast and particularly in Louisiana. "Louisiana has tremendous geopressured-geothermal resources," John told press. "Their development could lead to an increase in state revenues, new job creation and a leveraging of alternate energy resources well into the future."

See

<http://appl003.lsu.edu/unv002.nsf/9faf000d8eb58d4986256abe00720a51/d749eee4665a25f18625776e006b008a?OpenDocument>.

Nevada: Chinese Mining and Engineering Students Tour UNR

A college president and 19 mining and engineering students visiting from the China National University for Mining visited the University of Nevada Reno last week.

"They are very interested in working with us on earthquake research and mining and mine safety," said Jeff Thompson, the college's dean. "They said they would like to find ways we could work together on projects. They are an excellent university, and it would be a good collaboration for us, and it's a big opportunity."

He added, "They also were very impressed with how far we've gotten in geothermal energy and exploration, and they had a lot of questions about geothermal power."

The tour had been visiting California universities and the UNR stop was not originally on the schedule.

See <http://www.rgj.com/article/20100811/NEWS/8110395/1321>.

Nevada: Geothermal Development #1 in Country

A *Las Vegas Sun* article said Nevada could pass California in online geothermal capacity. The state has an installed capacity of a little more than 400 megawatts and a 13% share of total U.S. geothermal capacity. Nevada has had three geothermal plants come online in the past year. It also has 86 projects in the works which will add between 2,120 MW and 3,686 MW, making Nevada the number one state in the nation for geothermal capacity under development. In California, strict regulations and infrastructure challenges have resulted in a slowing of geothermal development projects.

The Geothermal Energy Association's recent utilities, power cooperatives and public power event in Las Vegas is the type of event that raises the state's profile in the industry, according to Tom Fares, vice president of renewable energy for NV Energy.

"When you have geothermal companies moving here, they tend to put a lot of their intellectual capital at work here in Nevada as well," Fares said. "That creates a critical mass of talent that will be an asset for an industry over time and feeds future growth."

See <http://www.lasvegassun.com/news/2010/aug/14/nevada-gaining-in-development-of-geothermal-energy/>.

Washington: Snohomish County PUD to Test for Geothermal Energy

The Snohomish County PUD will drill five test wells to determine whether geothermal power generation is possible and is expected to produce results by this fall. The cost to dig the wells will be about \$250,000 with up to half of that covered by the U.S. Department of Energy. A 50-MW plant, the ultimate goal, would power 35,000 homes and would cost between \$150 million and \$200 million.

See <http://heraldnet.com/article/20100816/NEWS01/708169924>.



International News

Australia: Greens Seek Increased Renewable Energy Funds

Green deputy leader Christine Milne said the current \$1.75 billion program for renewable energy grants was insufficient. The Greens have proposed a boost up to \$5 billion of loans for new renewable energy power stations.

In order to fully utilize Australia's renewable resources, "we need a well-designed suite of policies to get us there - a strategic plan, an ambitious renewable energy target, a feed-in tariff, a grants program and a loan guarantees scheme," Senator Milne said. She added that at least \$8 billion of potential new investment could result from government loan guarantees on solar, geothermal and tidal power stations.

See <http://www.theage.com.au/federal-election/greens-call-for-huge-boost-to-renewable-energy-funds-20100808-11qfk.html>.

Canada: Yukon Energy Locates Potential Geothermal Sites

Yukon Energy Corp. has found potential sites for geothermal electricity production in the Jarvis Creek area. Preliminary testing found underground water of about 80°C. "If we can get into the 100 [to] 110°C range, we're pretty certain that we can push forward a project if we can locate the source of the reservoir," said Yukon Energy president David Morrison.

A few sites have been identified in the Whitehorse area as well. Yukon Energy generates hydroelectricity and has backup diesel generators and two wind turbines. The company has conducted explorations over the last two years to find geothermal power sources, with spending of almost \$1.5 million.

See <http://www.cbc.ca/canada/north/story/2010/08/05/yukon-geothermal-energy-yec.html>.

Canada: Industry Wants Government Support

Press Release, August 9, Vancouver BC — Canada has the potential to generate enough clean, low-cost electricity from geothermal sources to power 5 million homes, the country's geothermal association said on Monday.

As things stand though, the resource-rich country does not produce a single unit of geothermal energy, which comes from hot water and steam produced by heat deep below the earth's surface.

This is a result of a lack of government funding, a shortage of land made available for development, a dearth of knowledge and the existence of other cheap and more traditional power sources like hydro and natural gas, Alison Thompson, chairman of the Canadian Geothermal Energy Association said.

"Geothermal is practically the lowest-cost electricity, not only of the renewables," Thompson told delegates at an industry conference in Vancouver, showing a slide where only coal-generated power was cheaper.

"But people don't even know it's an option, even in towns where there are hot springs," she later told Reuters on the sidelines of the conference.

In geothermal power production, hot water and steam from underground are piped up and used to drive turbines in plants that generate electricity.

Well-known manifestations of geothermal energy are geysers and hot springs, which form when heated water rises and breaks through the earth's surface.

In Canada, as in the United States, most of the geothermal resources are found in the West. Thompson said Canada has at least 5,000 megawatts of geothermal resource in the western provinces of British Columbia, Alberta, Yukon and Northwest Territories.

The industry wants the Canadian federal and provincial governments to invest in mapping studies and provide early-stage financial support, as the United States has.

Ironically Canada has an abundance of geothermal developers but most of the companies are active in the United States, the world's biggest producer of geothermal energy.

Some 27 percent of geothermal development in the United States is carried out by Canadian-based companies, said Alexander Richter, director of sustainable energy at Islandsbanki, an Icelandic bank active in geothermal financing.

Geothermal companies have set up shop in Canada largely because of the financial community's comfort with financing mining projects, which are similar to the earlier stages of geothermal development.

Hungary: Geothermal Greenhouses Could Provide Economic Boost

Hungary could use its geothermal resources to grow vegetables and create tens of thousands of jobs, a study states. Judit Dimény, director of the Agricultural Technology Institute at Gödöllő's Szent István University states that the number of greenhouses could be doubled; currently greenhouses produce a third of Hungary vegetables. See <http://www.realdeal.hu/20100811/hungarys-geothermal-energy-could-make-it-a-vegetable-powerhouse>.

India: Tata Power Exploring Geothermal Energy Sources

Tata Power, an India-based power company with 200 MW of installed wind energy is exploring geothermal possibilities in India, according to Prasad Menon, managing director. "We believe that the growth momentum in renewables may gather impetus with strict implementation of Renewable Purchase Obligation and the Renewable Energy Certificate (REC) mechanism," Menon told press. The company is scheduled to commission a 3-MW solar PV plant by October 2010.

See http://www.rechargenews.com/energy/geothermal/article225693.ece?WT.mc_id=rechargenews_rss.

Philippines: Environmental Clearance Granted for Maibarara Geothermal Project

PetroEnergy Resources Corps has received an environmental clearance for its 40-MW Maibarara geothermal project and will begin the work-over of the wells late this year or early next. The company will develop Maibarara in Calamba, Laguna and Sto. Tomas, Batangas. Commissioning of the first 20 MW is expected by late 2013.

"The thorough review conducted by the Environment Department show the government's commitment to clean and renewable energy projects," PetroEnergy president Milagros Reyes said. Trans-Asia Oil and Energy Development Corp. and Philippine National Oil Co.-Renewables Corp. recently signed onto the Maibarara project. See <http://www.gmanews.tv/story/198322/petroenergy-cleared-to-operate-geothermal-project-in-laguna-batangas>.

St. Lucia: Geothermal Operations to Commence in 2012 with Export Potential

The government has signed an agreement with U.S.-based Qualibou Energy for development of a 12-MW geothermal plant, scheduled to begin operations in 2012. Another 108 MW will be added by 2015. Qualibou estimates as much as another 170 MW of potential electricity available near the small town of Sulphur Springs.

The island could become an energy exporter through a 30-mile sea cable that would link it to Martinique and allow the geothermal plant to export about 80 MW by 2015.

See <http://www.triplepundit.com/2010/08/caribbean-st-lucia-closer-to-becoming-geothermal-energy-exporter-qualibou/#ixzz0wDtmLQXW>.

UK: Cornwall Council Approves First Geothermal Plant

The Cornwall Council has approved the UK's first utility-scale geothermal plant. The 55-MW power plant is located near Redruth and is developed by Geothermal Engineering. Drilling is expected to begin on three 4.5-km wells in early 2011. The plant could be operational by 2013 and provide power for 20,000 homes. Geothermal Engineering said this will be the deepest onshore well in the UK and that the approved application is a "major milestone" in geothermal development in the UK.

See

http://www.pennenergy.com/index/power/display/0429056568/articles/powergenworldwide/renewables/geothermal/2010/08/first-geothermal_plant.html.



Geothermal Heat Pumps and Direct Use

Elon University Gets Geothermal Heating and Cooling System

Elon University in North Carolina will install geothermal systems for five dorms, a project that will drill 112 holes 440 deep. The systems will be operational by next summer and will cut down the use of fossil fuels, according to the school's Sustainability Coordinator, Elaine Durr.

See <http://www.digtriad.com/news/local/story.aspx?storyid=146393&catid=57>.



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



Notices

New This Week

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.

Current Notices

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

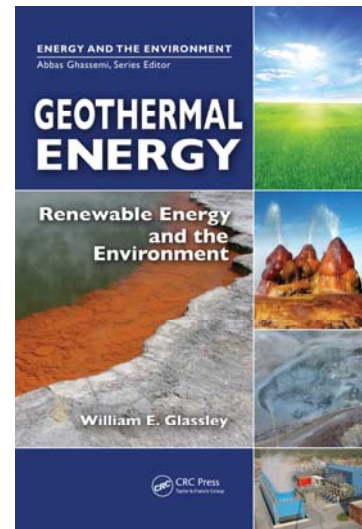
The Los Angeles Department of Water and Power (LADWP) Draft 2010 Integrated Resource Plan (Draft 2010 IRP) is now out and open for comment. The draft is designed to provide a 20-year for ensuring Las Angeles energy needs are met and follow regulatory requirements and environmental policy goals. The Draft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



Colorado Geothermal Working Group Presentations Posted on New Group Site

Presentations from the May 27 Geothermal Working Group meeting at the Denver Museum of Nature and Science are now posted at a new group site called Geothermal Energy in Colorado: <http://coloradogeothermal.groupsite.com/>. By joining and participating in this site you will have access to geothermal resources, notices and communications, and networking opportunities. All members can post geothermal events to a calendar, join a forum for discussions, and access an index for finding contacts and resources.

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.

California Transmission Planning Group Releases Phase 2 Study Plan

The 2010 CTPG Phase 2 Study Plan incorporates "comments and recommendations of many stakeholders and entities with roles in the planning, development, and implementation of transmission facilities, most notably the California Renewable Energy Transmission Initiative and the State's principal energy agencies," states the report.

"As more resource procurement scenarios become available and clearer, CTPG envisions that the transmission plans it develops will require additional reviews and further studies to reflect such updated scenarios as well as other relevant updates, including renewable resource development progress and changes in circumstances or regulations."

The report is available at http://www.ctpg.us/public/images/stories/downloads/2010-05-07_final_phase_2_ctpg_study_report.pdf.



Employment

Employment Opportunities

For details on listed employment opportunities, 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

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com



Requests for Proposals**Closing This Week****Sustainable Communities, HUD (August 23)**

The U.S. Department of Housing & Urban Development requests proposals for the Sustainable Communities Regional Planning Grant Program. This program will support metropolitan and multijurisdictional planning efforts that integrate housing, land use, economic and workforce development, transportation, and infrastructure investments in a manner that empowers jurisdictions to consider the interdependent challenges of: 1) Economic competitiveness and revitalization; 2) Social equity, inclusion, and access to opportunity; 3) Energy use and climate change; and 4) Public health and environmental impacts. \$98 million expected to be available, award range \$100K to \$5 million. Responses due 8/23/10. For more info, contact sustainablecommunities@hud.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=55456>. Refer to Sol# FR-5396-N-03. (Grants.gov 6/24/10)

Added This Week**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 cultivates. Get the application guide and application documents: <http://www.nirec.org/rfp2010Apply.html>

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 bloomer.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)

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 Mangement 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

Geothermal in the Oil Field, RMOTC, Casper, WY (August 18-19)

To register for this symposium, go to <http://www.rmotc.doe.gov/registration.html>. Registration is due August 6, 2010. For more information, call (888) 599-2200 or e-mail talk@rmotc.doe.gov.

Added 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/>.

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 × 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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