

Geothermal Energy Weekly

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April 5, 2010

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National News

No Regulation of Stationary Sources Before 2011, Says EPA

EPA Administrator Lisa Jackson gave a timeline for regulation of greenhouse gas emissions, announcing it would begin no sooner than January 2011, according to eenews.net. EPA reconsidered a policy outlined in the Bush administration's "Johnson memo" upon petition by the Sierra Club and other groups, but decided to uphold a determination by former Administrator Stephen Johnson: only for pollutants subject to "actual control" under the Clean Air Act are facilities required to obtain New Source Review and operating permits.

"This is a common sense plan for phasing in the protections of the Clean Air Act," Jackson said in a statement. "It gives large facilities the time they need to innovate, governments the time to prepare to cut greenhouse gases and it ensures that we don't push this problem off to our children and grandchildren."

"Providing nine additional months for states to revise their clean air laws and regulations will enable these agencies to closely align their programs with the federal permitting rules, thereby assuring a smooth and rational transition to the daunting but important challenges of regulating greenhouse gases from industrial facilities," said Bill Becker, executive director of the National Association of Clean Air Agencies. EPA also confirmed there will be no "grandfathering" of pending permit applications.

See <http://www.eenews.net/eenewspm/2010/03/29/1>.

Climate Bill Likely to Come in April, Senators Say; Support for Action This Year

From EESI Climate Change News: On March 25, Sen. John Kerry (D-MA), in collaboration with Joseph Lieberman (I-CT) and Lindsey Graham (R-SC), indicated that climate legislation they have been developing will likely be released to the public in April following the Congressional recess. The three senators have spent the past two weeks sharing an 8-page outline of a bill to other senators and business groups. Graham provided some details of the legislation, which will include sector-specific emission limits for power plants starting in 2012, followed by limits for manufacturers four years later. The senators will propose recycling all revenue generated by the sale of the utility industry's allowances back to consumers through local distribution companies. In addition, there will be a "price collar" placed on the allowances to provide industries with some certainty, the senators said.

On March 19, 22 Democratic senators wrote a letter to Majority Leader Harry Reid (D-NV) urging him to take up energy and climate legislation this year that focused on "jobs and reduced dependence on foreign oil." Signatories included Sherrod Brown (D-OH), Maria Cantwell (D-WA) and several coal-state Democrats. "We recognize that achieving agreement in the Senate will be a challenge, but across the country, Americans are coming together behind this effort," the letter read. Reid's office did not comment on the letter, but following a meeting with Senate Democrats last week, Reid said, "We know we have to do something. The issue before us is how do we do it?"

See <http://www.businessweek.com/news/2010-03-22/democratic-senators-urge-considering-climate-bill-this-year.html> and <http://www.politico.com/news/stories/0310/34888.html>.

Obama to Open Offshore Areas to Oil and Gas Drilling for First Time

The Obama administration is proposing to open offshore areas along the Atlantic coastline, the eastern Gulf of Mexico, and the north of Alaska for oil and natural gas drilling, according to nytimes.com. Areas from New Jersey northward, the Pacific, and southwestern Alaska would remain closed. The potential for fuel in the areas open to exploration is unknown, but the Interior Department has estimated as much as a three-year supply of recoverable oil, along with more than two years' worth of natural gas.

Mr. Obama indicated support toward expanded offshore drilling several times during his presidential campaign; in his State of the Union address, his note on decreasing the country's imported oil included "tough decisions about opening new offshore areas for oil and gas development."

Four public meetings held over the past year in Alaska, California, Louisiana, and New Jersey, as well as 500,000 public comments on the issue contributed to the offshore drilling plans, developed by Interior Secretary Ken Salazar. Salazar has said that he hoped to find a middle ground between the “drill here drill now” advocacy and the blocking of all oil exploration on nearly all public lands and waters. The first lease sale could occur as early as next year off the coast of Virginia. If the Interior Department approves further lease sales after geologic and environmental studies, these sales would not be held before 2012.

See <http://www.nytimes.com/2010/03/31/science/earth/31energy.html?hp>.



Company News

Nevada Geothermal Power: Updates on Blue Mountain Plant, Debt Financing Timeline

Press Release, April 1, — Nevada Geothermal Power Inc. (NGP) (TSX.V: NGP, OTCBB: NGLPF) is pleased to announced that its Faulkner 1 power plant at Blue Mountain has been operating continuously since all three power generator units were brought back online on March 5th. The plant is currently generating between 36 and 38 MW (net).

“We are very pleased with the performance of the plant since its full restart,” stated Brian Fairbank, President and CEO. “We are now producing above the minimum threshold required by our power purchase agreement. With these achievements, we have confidence in our ability to further expand the Blue Mountain property and to execute our plan to begin developing our other properties in Nevada and Oregon this year.”

Senior Debt Financing Update

On March 27th, an updated GeothermEx resource study on Blue Mountain was submitted to John Hancock Life Insurance as part of their due diligence requirements. The updated report incorporated data from NGP’s most recently completed wells. Given the recent submission of the report, the timeline for completion of the financing has been extended beyond the initial target date of March 31st. NGP continues to work cooperatively with TCW who have indicated no intention of changing the agreement in principle reached in November 2009.

Well Updates

Construction of the pipeline for injection well 58-11 is in progress and it is expected that the well will be placed into service in April. The well, which is located in a new northern injection zone, is designed to enhance the distribution of injection fluids and supplement overall reservoir pressure support.

Between December 15th and March 9th, well 44-14 was utilized as a temporary injection well. As a result of stimulation associated with the injection of fluid into 44-14, the well’s permeability increased dramatically. NGP now plans to reconfigure well 44-14 to become a production well and it is estimated that this process will take two to three months to complete.

Well 91-15 is still under development. Over the past two weeks the well’s temperature has risen from about 330° F to 359 ° F. NGP plans to allow the well to heat up further, under static conditions, before conducting further testing and analysis.

See <http://www.nevadageothermal.com/s/Home.asp>.

NV Energy: Approval Sought for Four Renewable Energy Agreements

Press Release, April 5 — NV Energy (NYSE:NVE) recently submitted four new Power Purchase Agreements for approval by the Public Utilities Commission of Nevada that would add approximately 132 megawatts of renewable energy for utility customers during the next 20 or more years.

The contracts include a 50-megawatt solar photovoltaic project to be constructed near Primm, Nevada by NextLight Renewable Power; a 3.2-megawatt landfill energy project in Storey County, Nevada by Waste

Management; a 53.5-megawatt geothermal project in central Nevada by Ram Power; and a 25-megawatt geothermal project in Elko County by Reno-based Ormat Technologies.

These four projects alone can meet the year-round electricity needs of a community of approximately 100,000 people. NV Energy now has 1,240 megawatts of geothermal, solar, wind, biomass, small hydro and waste-heat recovery projects under contract that are either in commercial operation or in the project development stage.

All four new power purchase agreements stem from NV Energy's 2009 renewable energy request for proposals. The four renewable energy contracts will help NV Energy meet its renewable portfolio standard established by the Nevada State Legislature. Currently, the standard requires 12 percent of NV Energy's sales to be provided by renewable energy and energy conservation efforts, and that amount ratchets up at specific intervals until it reaches 25 percent by 2025.

For more, see <http://www.environmental-expert.com/resultEachPressRelease.aspx?cid=28518&codi=160420>.

OrCal Geothermal Inc.: Fitch Affirms OrCal Geothermal Inc. at 'BBB-'

Press Release, March 25 — Fitch Ratings has affirmed the 'BBB-' rating for OrCal Geothermal Inc.'s (OrCal) \$165 million senior secured notes due 2020. OrCal has resolved previous shortfalls in project capacity and increased output following a series of capital improvements, and Fitch has no reason to believe OrCal's financial performance will differ significantly from original projections. The Rating Outlook remains Stable.

Overall operations at the Heber geothermal complex improved to net production levels of 85.1 megawatts (MWs) in 2009, up from projected production of 81.8 MW for the year. The increased production is the result of upgrades to the Heber South and Heber 2 projects in 2008, following prior upgrades to the Heber 1 project in 2007. Heber South, OrCal's newest 14 net MW geothermal plant, initially underperformed when it came on-line in May 2008, producing at half capacity. The drilling of a new well in 2009 resolved Heber South's production issues and has consequently permitted optimization of the entire Heber field. The 2009 capacity factor of 92% exceeded the originally projected capacity factor of 88%, whereas the projects' capacity factor lagged projections three years ago. OrCal performed upgrades on Heber 2, a 32 net MW plant put into operation in 1993, also went through major upgrades to replace original equipment in 2008 and Heber 1, OrCal's largest plant at 45 net MWs, went through its own discretionary upgrades when it was overhauled in 2007.

For more, see

http://www.businesswire.com/portal/site/home/permalink/?ndmViewId=news_view&newsId=20100325006032&newsLang=en. Additional information is available at www.fitchratings.com

Sierra Geothermal Power: Bid Wins for Knight Inlet Geothermal Parcel

Press Release, April 1 — Sierra Geothermal Power Corp. (TSX VENTURE: SRA) ("Sierra") is pleased to announce that it was the successful bidder in the March 29, 2010, BC Government auction for Crown geothermal rights to an 8,079 hectare parcel of land in the Knight Inlet area of British Columbia. Most of this parcel is located within the Da'naxda'xw/Awaetlala Nation's traditional territory, where Sierra has an exclusive right to explore for geothermal resources pursuant to a memorandum of understanding signed last year.

As the successful bidder at the auction, Sierra has received a one-year permit from the BC government granting it the exclusive right to explore for the Crown's geothermal resources on the parcel covered by the permit. This permit may be renewed annually for up to eight years, after which it can be converted to a lease.

Gary Thompson, President and CEO of Sierra said, "We are excited to have won the bid for the Knight Inlet lands. We believe that these lands have excellent potential for development of a geothermal resource given geothermometry results of 150 to 200 degrees Celsius. The geothermal rights from the Crown coupled with our earlier memorandum of understanding with the Da'naxda'xw/Awaetlala Nation provides the ideal combination to move a project forward. If we find a geothermal resource on this land that we can develop, we believe that we can provide a benefit to the residents of the region while bringing a clean and renewable form of power to BC's electrical grid."

See <http://www.marketwire.com/press-release/Sierra-Geothermal-Power-Awarded-Knight-Inlet-Geothermal-Parcel-TSX-VENTURE-SRA-1141527.htm>.

Urex Energy Corporation: Purchase Completed on Three Geothermal Leases

Press Release, March 23 — Urex Energy Corporation (the "Company" or "Urex") (OTC.BB:URXE - News) reports that it has completed the purchase of three geothermal leases totaling 6582 acres located in the State of Nevada from Enco Explorations Inc. of Reno, Nevada.

The Geothermal Lease Purchase Agreement provides for the Company to pay Enco Explorations Inc. 100 million shares of the Company's common stock per an agreement signed March 18, 2010.

As a part of an on-going reorganization of the Company's business activity, the decision to diversify into the geothermal energy field is aligned with the Company's long-term strategy to add shareholder value.

See <http://money.cnn.com/news/newsfeeds/articles/marketwire/0599975.htm>.



Renewable Energy and Climate Change

DOE to Provide \$37.5 Million for U.S.-Chinese Clean Energy Research

From EERE Network News: DOE announced on March 29 the availability of \$37.5 million in U.S. funding over the next five years to support the U.S.-China Clean Energy Research Center (CERC). Grantees will need to match the funding, generating a total of \$75 million to support research on advanced technologies for building energy efficiency, clean vehicles, and carbon capture and storage. China will contribute an additional \$75 million to the CERC, which will be a virtual research center, located in existing facilities in both the United States and China.

President Obama and President Hu Jintao formally announced the establishment of the CERC during the President Obama's trip to Beijing last November. The program will unite teams of scientists and engineers from both the United States and China. Because the United States and China are the world's top energy consumers, producers, and greenhouse gas emitters, they have a strong shared interest in advances in key technologies. DOE will provide one award for each of the CERC's three initial work areas: building efficiency, clean vehicles, and carbon capture and storage for coal. Universities, national labs, private companies, and other relevant entities are eligible to apply through the Grants.gov Web site by May 14. DOE expects to select awardees this summer.

See <http://www.energy.gov/news/8804.htm>, <http://www07.grants.gov/search/search.do?oppld=53302&mode=VIEW>, and <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000324&agency=DOE>.

DOE, Interior, and Army Corps of Engineers to Cooperate on Hydropower

From EERE Network News: DOE, the U.S. Department of Interior and the U.S. Army Corps of Engineers signed a Memorandum of Understanding (MOU) on March 24 to create a new federal approach to hydropower. The federal agencies have agreed to focus on increasing energy generation at federally owned facilities and to explore opportunities for new development of low-impact hydropower. The new agreement also provides an opportunity for DOE to connect its hydropower research and development efforts with the agencies that own, operate, and regulate federal water projects. The combined hydroelectric facilities of the Army Corps of Engineers and Interior's Bureau of Reclamation total about 34,000 megawatts, representing approximately half of the country's hydropower capacity.

Under the MOU, the agencies will identify specific federal facilities that will be well-suited as sites for sustainable hydropower, upgrade facilities and demonstrate new technologies at existing hydropower locations, coordinate research and development on advanced hydropower technologies, and increase hydropower generation through low-impact and environmentally sustainable approaches. The MOU is supported by detailed action items that the agencies have identified as areas of collaboration, including technology development and deployment, green hydropower certification, federal inland hydropower coordination, renewable energy integration and energy storage, and regulatory process facilitation.

See <http://www.energy.gov/news/8793.htm>, http://www1.eere.energy.gov/windandhydro/water_power.html, and <http://www.usbr.gov/power/index.html>.

Past Decade was Earth's Warmest on Record, says U.N. Report

The World Meteorological Organization of the United Nations has said the decade ending in 2009 was the Earth's warmest on the record, according to eenews.net, with modern measurements beginning in 1850.

In the year 2009 there was an average global rise in surface temperature between 0.34°C and 0.56°C. The Southern Hemisphere was warmer than average, while parts of the United States, Canada, and Siberia saw cooler temperatures than average. The year 2010 could set an annual warming record, the report stated. NASA's Goddard Institute, NOAA, and the Met Office in the United Kingdom all maintain these data sets

See <http://www.eenews.net/climatewire/2010/03/26/3>.

House Science Panel Approves \$3.4B ARPA-E Bill

On March 25, the House Energy and Environment Subcommittee of the Science and Technology Committee passed a bill by voice vote to reauthorize DOE's Advanced Research Projects Agency-Energy (ARPA-E) through 2020, authorize \$3.4 billion through 2015, formally authorize energy "innovation hubs" at DOE, and would authorize and direct research programs through DOE's Office of Science. The Science Committee is seeking to reauthorize the America COMPETES Act, a 2007 research and education bill set to expire this year.

"Spanning the full gamut from the most basic research all the way to commercial applications, these three programs represent the forefront of our nation's effort to lead the world in the development and production of technologies for a clean energy economy," subcommittee Chairman Brian Baird (D-Wash.) told press.

Others were skeptical: "As I look at the authorization levels in this bill, I can't help but think that we're letting our enthusiasm for these programs get the better of us," said ranking member Bob Inglis (R-S.C.). "While robust funding for critical work at the Department of Energy is necessary and a long-term commitment of this subcommittee, now is the time to exercise fiscal restraint and fiscal responsibility."

See <http://www.eenews.net/eenewspm/2010/03/25/3>.

Report Shows Renewable Energy Case Studies on Tribal Lands

The New Energy Future in Indian Country report shows how renewable energy sources could revitalize Native American tribal lands, according to argusleader.com. It shows case studies of wind, solar, geothermal and biomass production and energy efficiency and weatherization efforts. The study was done by the National Tribal Environmental Council, Native American Rights Fund, Intertribal Council on Utility Policy and the National Wildlife Federation.

"We've been very excited over the last few years of the opportunities that exist on tribal lands to deal with the economic situations tribes are facing in a way that helps the country overall," said Steve Torbit, director of National Wildlife Federation's Rocky Mountain Regional Center and Tribal Lands Conservation Program. "And that would be renewable energy."

The status of tribes as sovereign nations has prevented them from getting tax credits, though discussions have suggested changing that. Over 95 million acres of land in the U.S. are under tribal management, with more than 4.95 million acres managed by nine South Dakota tribes.

See <http://www.argusleader.com/apps/pbcs.dll/article?AID=/201003240155/NEWS/3240307>.



State News

California: New Energy Law for Wildlife Reconstruction

California Gov. Arnold Schwarzenegger signed a new state energy law allowing developers to pay fees for lost wildlife habitat rather than constructing replacements. The funds will go to state and federal agencies to buy and protect land for wildlife. The law will speed up project approval – over 240 solar, wind and geothermal projects are currently pending. Interior Secretary Ken Salazar was present for the bill signing and said he has set up a fast-track approval process for nine solar and three wind projects on public land in California.

See <http://www.cleanskies.com/articles/schwarzenegger-signs-energy-law>.

Montana: Developer Seeks Geothermal Lease

A developer is seeking approval on a four-phase, \$140 million geothermal project plant in the Bell Diamond mine yard on the Butte Hill, according to istockanalyst.com. Dennis Lester, a Butte native hopes to secure a lease and is seeking investors. If commissioners grant Lester the lease he will first secure money for research, drilling and testing. Plans to build and operate a plant would come after positive testing results. Lester told press that the anticipated plant could produce between 5 and 20 MW. Drilling could take three to five years.

See <http://www.istockanalyst.com/article/view/StockNews/articleid/3995231>.

Utah: New Law Allows Eminent Domain on Federal Property

Gov. Gary Herbert (R) signed a law giving the state eminent domain on federal land, according to eenews.net. The federal government owns 60% of Utah's land, and the state is looking to develop resources, particularly three targeted pieces of land. The federal government will likely resist claims to federal land and Utah may prompt a U.S. Supreme Court lawsuit. State attorneys said a lawsuit is unlikely to succeed but the \$3 million budget for litigation is worth the billions of dollars in potential revenue.

See <http://www.eenews.net/Greenwire/2010/03/29/20>.



International News

Argentina: G4G Resources Reports on Progress of Geothermal Acquisition

Press Release, March 24, Vancouver, BC — G4G Resources Ltd ("G4G" or "the Company") announces that the independent technical report on the geothermal resource at the Despoblados prospect ("Despoblados") located in San Juan, Argentina ("technical report") has been completed by GeothermEx, Inc. ("GeothermEx"). The technical report has been filed with the TSX Venture Exchange ("TSX-V") for review prior to release. Upon receiving TSX-V approval, the Company intends to post the technical report on SEDAR.

Despoblados is one of the geothermal properties in the Valle del Cura region in respect of which G4G previously announced on February 16, 2010 that it had entered into an exploration contract with an option to purchase with Group Minero Aconcagua S.A. and Andean Geothermal Power Corporation (the "Agreement").

The geothermal resource estimate for Despoblados has been prepared in accordance with The Canadian Geothermal Code for Public Reporting, 2010 Edition, published by the Canadian Geothermal Energy Association ("CanGEA") ("The Canadian Geothermal Code"). Using the temperature of the geothermal system estimated from chemical geothermometry and certain standard assumptions regarding area and thickness, the technical report estimates a resource range at Despoblados of about 8 to 17 MWe for 20 years of production, which may be considered an Inferred Resource Estimate in the sense of the Canadian Geothermal Code. A larger resource may be present if further exploration shows its area and/or thickness to be greater than assumed. The technical report also states the Valle de Cura geothermal concessions collectively have a possible total resource capacity of 35 to 85 MWe (for 20 years), perhaps several tens of MW or more.

For more, see <http://www.marketwire.com/press-release/G4G-Resources-Reports-on-Progress-of-Geothermal-Acquisition-in-Arentina-TSX-VENTURE-GXG-1137275.htm>.

Australia: Panax Completes Drilling on Salamander 1 Well

Drilling and securing of the Salamander 1 well at Penola in South Australia is has been complete by Panax Geothermal, according to abc.net.au. Panax Geothermal reached 4,025 m in 44 days. A 5.9-MW demonstration plant is set for the end of next year and will be expanded to a commercial production.

See <http://www.abc.net.au/news/stories/2010/03/25/2856094.htm>.

Azerbaijan: Energy Minister Names Renewable Energy Target

Azerbaijan has excellent conditions for renewable energy development, Energy Minister Natig Aliyev said at a conference in Baku. He said that Azerbaijan is still in initial stages of developing alternative sources of energy. "If we can have 3-5% of our electricity generated by alternative energy in a couple of years, then we will have achieved our objective. However, this depends on how quickly we progress," Aliyev told press at the conference.

"First of all, we have very high potential for wind power development, especially on the Absheron Peninsula where the wind force ranges from 3 to 27 m/sec which is considered ideal for the efficient operation of wind turbines," he said. "The use of solar energy in Azerbaijan which has 260-280 days of sunshine per year is also promising. The country has geothermal waters, especially in Guba where the water temperature sometimes reaches 90 degrees. We have never used geothermal water, but today there is plenty of experience worldwide in its use, in particular, to generate heat for domestic purposes and we are going to make use of this experience," Aliyev said.

See <http://www.news.az/articles/12550>.

Bolivia: Japan Offers Funds for Geothermal Plant

Japan has plans in the works for tens of billions of yen (hundreds of millions of dollars) in loans toward a 100-MW geothermal power plant in Bolivia, an AFP article said. This deal is part of a plan Japan has to offer aid to countries rich in rare metals. Lithium is used in lithium-ion batteries for electric cars, and half the world's lithium deposits are believed to be in Great Lake of Uyuni, Bolivia. The planned aid package to Bolivia includes 440 million yen in grants for solar panels in hospitals in La Paz, co-operation in building an alpaca wool textile business, and promotion of terrestrial digital televisions.

See <http://www.google.com/hostednews/afp/article/ALeqM5j5EzAUs2xu9p2iAiyH11CxTGuHQ>.

Chile: Project at Tolhuaca to Open by 2013

Mighty River Power's Chilean venture will start operations by 2013, according to businessweek.com. The \$220 million 70-MW project is located at Tolhuaca, southeast of Concepcion. "Three years from the end of this year you could have a plant operating," Mighty River Chief Executive Officer Doug Heffernan said, "A minimum of two years and likely three years."

Chile's geothermal resources are similar to Mighty River's developments in New Zealand over the past five years, Heffernan said. "Resources are very high temperature. They are quite large in scale, even relative to New Zealand, and some of them seem to have relatively shallow production zones." Mighty River is working through Denver, Colorado-based associate GeoGlobal Energy LLC and will likely seek partners for these projects, Heffernan said.

See <http://www.businessweek.com/news/2010-03-29/n-z-s-mighty-river-plans-to-open-first-chilean-plant-by-2013.html>.

Iceland: Magma Energy Acquires Further 2.16% in Icelandic Geothermal Producer

Press Release, April 1 — Magma Energy Corp. (TSX: MXY) reports that it has now closed a previously announced agreement to acquire from Geysir Green Energy a 2.16% stake in HS Orka, a large producing geothermal company in Iceland, for 625 million Icelandic Kronur ("ISK") (approximately \$5 million). Magma Energy also reports that it has contributed new equity to HS Orka in order to finance its continuing development and expansion. Magma Energy has contributed approximately \$8.0 million and Geysir has contributed approximately \$12 million for a total contribution of \$20 million. Magma Energy now holds a 43.2% direct interest in HS Orka.

HS Orka is the largest privately owned energy company in Iceland. Installed geothermal power capacity is 175 megawatts ("MW") from the Svartsengi and Reykjanes power plants. In addition, HS Orka generates 150 MW of thermal energy for district heating. Expansions are planned that will increase HS Orka's geothermal power production to 405 MW by 2015. Much of the power is sold under US dollar contracts to a large aluminum smelter that is one of the world's lowest cost aluminum producers.

See <http://www.magmaenergycorp.com/s/NewsReleases.asp>.

Indonesia: Partnership on North Sumatra Geothermal Plant

Tata Power Company Ltd will partner with PT Supraco, an Indonesian privately owned company, to build the Sorik Merapi geothermal power plant in North Sumatra, according to tradingmarkets.com. The project will initially have a generating capacity of 55 MW and could be expanded to 200 MW. An agreement with state electricity company PLN, which will buy the plant's power, is yet to be reached.

See http://www.tradingmarkets.com/news/stock-alert/tpwff_indonesian-partner-to-join-tata-power-to-build-geothermal-plant-882925.html.

Indonesia: USTDA Announces \$1.6 m in Grants for Geothermal Projects

The US Trade and Development Agency (USTDA) has announced US\$1.6 million in grants for feasibility studies for two private geothermal projects, according to thejakartapost.com. One grant gives \$732,722 to PT Star Energy Geothermal Halmahera for a feasibility study for the 370-MW Jailolo Geothermal Power Plant in Halmahera. The other, in the amount of \$934,308 was awarded to PT Indonesia Power for the 300-MW Tangkuban Perahu geothermal power project in West Java.

See <http://www.thejakartapost.com/news/2010/03/31/16-million-grants-geothermal-projects.html>.

Kenya: Japan Signs Funds Agreement for Olkaria Geothermal Project

Japanese ambassador Shigeo Iwatani and Kenyan Finance minister Uhuru Kenyatta have signed a major deal on project aid that will provide Sh23.4 billion for the Olkaria geothermal power development, according to businessdailyafrica.com. The Japanese have sought a stronger presence in Africa following similar moves by China and are targeting one of Kenya's top sectors, according to the article. The geothermal project to construct Olkaria 1 Unit 4 and 5 will add 140 MW to the national grid and will expand Kenya's geothermal power production capacity by 85%.

See

<http://www.businessdailyafrica.com/Company%20Industry/Japan%20gives%20Kenya%20Sh24b%20geothermal%20power%20loan/-/539550/889832/-/jmmoem/-/>.

For more on Japan's

New Zealand: Tauhara II Geothermal Station Fast-Tracked Under EPA

The power station proposal by Contact Energy for the Tauhara II geothermal station has been referred to the Environmental Protection Agency on a fast track, according to sharechat.co.nz, with the hearing to completed within nine months. The application is the first to be submitted directly to the EPA, without call in from a regional or territorial authority, the article states. Tauhara II will have capacity of 240 MW, which could supply power to all the homes in greater Wellington.

See <http://www.sharechat.co.nz/article/5f27a722/contact-s-tauhara-ii-geothermal-station-is-first-to-be-fast-tracked-under-epa.html>.

Nicaragua: Ram Power Reaches Milestone for San Jacinto-Tizate Phase I Expansion

Press Release, March 25, Reno, NV -- Ram Power, through its subsidiary, Polaris Energy Nicaragua S.A. ("PENSA"), is pleased to announce that it has satisfied the conditions precedent including the corporate equity investment to draw down the credit loan facility with the Central American Bank for Economic Integration ("CABEI"), Nederlandse Financierings-Maatschappij voor Ontwikkelingslanden N.V. ("FMO"), Export Development Canada ("EDC"), and Cordiant Capital ("Cordiant"). Eighteen million dollars of the available \$77 million credit facility was disbursed today. The credit facility together with Ram Power's equity which already has been fully invested funds the completion of the San Jacinto-Tizate Phase I geothermal power plant.

"We are pleased to reach this important milestone for the funding of the San Jacinto-Tizate 36 megawatt expansion," said Christy Morris, Vice President for Ram Power, Corp. "We extend our appreciation to the consortium of lenders who share our commitment to clean, renewable energy in Nicaragua."

Ram Power has joined with the International Finance Corporation ("IFC") and the Inter-American Development Bank ("IDB") in the financing for the Phase II expansion at San Jacinto-Tizate. The Phase II expansion for an additional 36 megawatts with the total project expansion to 72 megawatts, has begun and is being constructed in

parallel to Phase I utilizing Ram Power's corporate equity funds until the expected close of Phase II debt financing in the third quarter of 2010.

See http://www.marketwatch.com/story/ram-power-completes-equity-funding-for-san-jacinto-tizate-phase-i-expansion-2010-03-25?reflink=MW_news_stmp.

Turkey: Dora-2 Geothermal Station Begins Production

Menderes Geothermal Electric Power Production (MEGE) has announced its Dora-2 power plant in Aydın is now online, according to hurriyetdailynews.com. Dora-1 geothermal power station was the first private geothermal plant in Turkey and came online in May 2006; the 11.5-MWe Dora-2 plant is the firms' second investment and was completed in 27 months.

MB Holding Chairman Muharrem Balat said, "With the completion of the Dora-2 investment, MEGE has reached an annual capacity of 140 million kilowatt/hours. It is a pleasure that we have utilized geothermal energy, an entirely domestic resource that had been inactive until a short while ago." He added, "Having launched power generation as of March, Dora-2 will have a net electricity generation of 75 million kilowatt-hours annually."

See <http://www.hurriyetdailynews.com/n.php?n=geothermal-power-plant-starts-generation-2010-04-05>.

United Arab Emirates: Masdar Commences Geothermal Drilling

Abu Dhabi has begun drilling on the first geothermal energy project in the Middle East, according to renewableenergyworld.com. Masdar, Abu Dhabi's renewable energy initiative, is working with Australian drilling contractor Ensign.

"There are two well designs. One is to the order of 2,800 m and the other is to the order of 4,500 m. There could be several other wells [dug at a later stage]," a source told press. "How many wells are to be drilled is something that is to be still decided," he added. "As to what kind of well design that Masdar may pursue will depend on whether the shallow well (2800m) design works or the deeper well (4500m) design does."

See <http://www.renewableenergyworld.com/rea/news/article/2010/03/masdar-starts-geothermal-drilling?cmpid=WNL-Friday-March26-2010>.



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



Notices

Current Notices

The Department of Energy Wants to Hear Your Stories

Energy Empowers (<http://www.eereblogs.energy.gov/energyempowers>) is all about your stories from the clean energy economy. This blog and multimedia site, run out of DOE's Office of Energy Efficiency and Renewable Energy, seeks to put a human face to the people, places, technologies and developments that will define our energy future – showing everyone that these advancements are real, growing and becoming part of our communities around the United States. We encourage everyone working in the energy space to visit and share their own success stories at <https://www1.eere.energy.gov/pnp/stories/stories.aspx>.

These stories can include DOE and ARRA projects, but we are also eager to see communities, private citizens and businesses taking the initiative in building America towards a clean energy future.

DOE Geothermal Technologies Database Available On-Line

The Geothermal Technologies Program's (GTP) projects database details various GTP-funded projects throughout the United States. You can search this database by keyword, state, project title, technology, awardee,

partner, Funding Opportunity Announcement (FOA) number, or funding source. For each project you will find a profile that includes background information, objectives and milestones, and a listing of participants.

See <http://apps1.eere.energy.gov/geothermal/projects>

NREL Announces New Poll on Renewable Energy Finance

The National Renewable Energy Lab (NREL) recently announced the availability of its new quarterly poll on RE Finance. The project, the RE Project Finance Tracking Initiative (REFTI) is designed to assess trends and barriers in project finance, the effectiveness of government incentive programs, and best practices in RE project finance. Access to good data is critical to thorough analysis and policymaking. Please help by participating in NREL's questionnaire. Any questions or concerns regarding the poll or data confidentiality can be directed to Michael Mendelsohn, Senior Financial Analyst at NREL.

DOE Loans Programs Office Offers Email Updates

From the DOE Loans Programs Office: The U.S. Department of Energy's Loan Programs Office invites you to sign up for our email list. On a periodic basis, we will forward program updates including announcements of solicitations, conditional commitments of loan guarantee and closings, and upcoming events in our web-based seminar series. You will find the subscription form on-line at: www.usaenergyadvisors.com/DOE/doe-newsletter-signup.htm

Please feel free to contact DOE's Loan Program Help Desk at doehelpdesk@usaea-connect.com, or 614-324-5940. Or visit DOE's Loan Program on-line at: www.lgprogram.energy.gov for additional information about the Loan Program. Our mailing list is secure and is not distributed or disclosed in any way.

Colorado ARRA Grant Schedule Posted, Governor's Energy Office

The Governor's Energy Office (GEO) has posted a schedule of anticipated American Reinvestment and Recovery (ARRA) grants to begin in January of 2010. The GEO plans to hold a webinar for each grant solicitation approximately one week after the official posting date. Note: the timeline is subject to change; grants may be pushed back to later dates, but will not open earlier. The schedule is available at <http://www.colorado.gov/energy/index.php?/resources/category/funding-opportunities/>.



Employment

Employment Opportunities

Project Specialist, SMU Geothermal Laboratory

Project Specialist (Grants/Contracts Specialist for Geothermal Lab) – (Job ID 1371) – (\$20.00 - \$30.00 an hour) – This is a part time position of approximately 20-30 hours per week. The Project Specialist will work with faculty, staff and students on grants/contract related to geothermal energy.

Primary duties and responsibilities include, but are not limited to:

- Overseeing the solicitation of grants including finding new grants, submitting applications, contracting, budgeting, and working with faculty staff, and student projects associated with the grants;
- Assisting with the development of project strategies and timeline, as well as overseeing progress on project;
- Writing, submitting and presenting project summaries and contract reports to the agency;
- Overseeing administration of grant paperwork and monthly requirements for payroll, budgets, supplies, invoices, and travel;
- Serving as liaison and conduit of information for other SMU offices, government agencies and other institutions;
- Assisting in the planning and coordination of the Geothermal Energy Utilization Conference, including developing the marketing strategy to achieve desired attendance of 200+ and sponsorship coordination and solicitation;
- Responding to requests for information via email and telephone.

Bachelor's degree is required, preferably in Science. Masters of Science in a science field is highly desirable.

Job ID 1371 details at:

https://access.smu.edu/ps/ps/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_CE_HM_PRE&Action=A&SiteId=1.

Jobs Available at Idaho International Laboratory

In operation since 1949, the INL is a science-based, applied engineering national laboratory dedicated to supporting the U.S. Department of Energy's mission in nuclear energy research, science, and national defense. With 3,500 scientists, researchers and support staff, the laboratory works with national and international governments, universities and industry partners to discover new science and develop technologies that underpin the nation's nuclear and renewable energy, national security and environmental missions.

The INL is located in Idaho Falls. www.visitidahofalls.com Idaho, www.visitidaho.org.

To learn about the INL History and strategic plan: www.inl.gov

To view current career openings with the INL: www.inl.gov/careers/index.shtml

Contact Vanessa E. Van Dyk
Technical Recruiter – Energy & Environment
Idaho National Laboratory
2525 Fremont Avenue, Idaho Falls, ID 83415-3790
Phone 202-526-6325 Fax 208-526-1880
Email Vanessa.vandyk@inl.gov

Project Manager

Summary: Responsible for implementation of all aspects of project development from project inception through turn-over to engineering for final design and construction and provide assistance after turn-over to engineering as needed. Will manage multi-disciplinary teams, focused on executing company developmental plans and achieving project goals.

Duties and Responsibilities:

- The PM's two fundamental responsibilities are preparing and maintaining project schedules and budgets. As necessary the PM draws on resources (Development, Senior Scientists, top management) to meet the master project schedule and budget as approved by top management.
- Responsible for oversight, facilitation and implementation of all aspects of project development from initial prospect evaluation to turn over to engineering for final design. Key project factors (schedule, budget) are set by top management. PM's role is to ensure that top management policy is met.
- Negotiates contracts and other agreements related to the sale and transmission of electricity.
- Assists in preparation of financial documents to raise funding necessary to fund project
- Manages Project Development team
- Manages Consultants through the selection process, task assignment, coordination of actions, and quality control.
- Oversee all project land/lease acquisition activities, including contract negotiations.
- Oversees selection of transmission line routes, locations and corresponding transmission agreements
- Provide support to geoscience, drilling, legal, finance, engineering and other departments as needed.
- Meets with government officials and public as necessary.

Supervisory Responsibilities:

- Oversee various project managers, engineers and consultants to facilitate the timely completion of geothermal projects. Direct staff will consist of 3-6 employees.

Qualifications:

- Bachelor's degree (B.A. /B.S.) in related field or equivalent preferred.

- Six or more years related experience.
- A broad understanding of permitting on federal lands, drilling, resource development, power plants and transmission systems.
- Ability to gather project information sufficient to create very detailed project development schedules and to build detailed project budgets and financial models to facilitate implementation of the schedules.

Contact: Andrew Matkovic / Vice President
The Carmon Group Inc.
andrewmatkovic@carmongroup.com
(216) 539-7668

Development Engineer

Job Title: Development Engineer

Summary: Responsible for taking the lead on negotiating the technical sections and provisions in all major project contracts and agreements including; Power Purchase Agreements, Transmission Service Agreements, Interconnection Agreements, EPC contracts and project financing agreements.

Duties and Responsibilities:

- Work closely with the VP of Project Development and Legal Department to develop and negotiate the technical provisions in all major project contracts and agreements including PPAs, TSAs, LGIAs, EPC contracts and project financing agreements.
- Negotiate the technical provisions of the major project contracts.
- Coordinate with Management to acquire the technical information required to negotiate all major contracts and agreements.
- Provide progress reports to upper management

Qualifications:

- Demonstrated strong negotiation skills
- Minimum 10-15 years of power plant engineering and construction experience, geothermal or other renewable energy experience desired.
- Minimum of 5 years experience negotiating major contracts for the development of power plant projects.
- Strong knowledge of power plant O&M requirements including scheduling & dispatching energy, metering, maintenance & outage planning.
- Strong knowledge of Nevada and California Utility requirements and concerns with negotiating with Independent Power Producers.
- Strong knowledge of ISO requirements (particularly Nevada and California)
- Strong knowledge of selling power and Renewable Energy Credits on the open market.
- Self starter, excellent problem solving skills, excellent people skills
- Proficient oral and written communication skills
- Proficient computer skills
- Bachelor degree in engineering or equivalent

Contact: Andrew Matkovic
Vice President
The Carmon Group Inc.
andrewmatkovic@carmongroup.com
(216) 539-7668

Project Manager Geothermal Exploration, Europe

Job Description

We are a new geothermal energy company, focused on the exploration and development of geothermal power resources in Europe. In 2010, we will be expanding our investigations of several regions that may host economic

geothermal resources. Our principals are based in Canada and the US and have successfully developed oil & gas, mining and geothermal resources.

We require a project manager with field experience in geothermal exploration to coordinate in-country staff, consultants and contractors. This individual will have broad responsibility for project planning and management, budgets, liaising with government agencies, characterizing resources with appropriate exploration methods, and preparing detailed reports to describe a number of geothermal aquifers and their relative potential. We are now interviewing candidates for this assignment. This is a contract position based in Europe that will require in-country and international travel. The initial term of this contract will be one year with the potential of extension for a second year. We will provide an excellent compensation package to the right person including equity incentives. This is an attractive and rewarding opportunity for an entrepreneurial professional.

Responsibilities

- Design and manage the exploration programs
- Prepare and manage budgets
- Manage local staff, consultants and contractors
- Liaise with land owners and local and national governments
- Coordinate geological, geochemical and geophysical studies
- Develop geological and resource models
- Supervise exploratory drilling operations
- Prepare detailed assessments of target geothermal resources
- Prepare funding applications for development and technical assistance

Requirements

- Geology or Geophysics degree, professional certification
- Over 10 years experience in the exploration of geothermal resources
- Oil & gas or mining background will be considered
- Proven leadership and project management abilities
- Proven negotiation and communication skills
- Strong geological and geophysical interpretive skills
- Experience using computer software applicable to exploration
- A problem solver, "get it done" attitude

Location: Europe

Contact: drobot@penderfinancial.com

Senior Director, Business Development, Major Geothermal Company

The Senior Director, Business Development is responsible for overseeing the Business Development function in North America for geothermal market. This role could quickly grow into a VP role and will oversee a sales team currently consisting of 8 sales reps and will grow it by 50%.

Essential Functions:

- Direct and execute the business development strategy to achieve company goals and objectives.
- Identify and develop key strategic partnerships, both internally and externally.
- Responsible for negotiating PPAs and contract changes.
- Evaluate and analyze market expansion opportunities
- Build and lead a business development team that will assist the company towards completion of company goals
- Build relationships with internal departments so that all areas of the company are ready to execute when necessary.

Education, Experience, and Skills Required:

- Bachelor degree in engineering and MBA
- 10–15 years experience in Sales, Marketing, Business Development or Operations roles (preferably a mix of sales and operations in energy industry)

- Willingness to travel up to 60% nationally and internationally
- Ability to negotiate contracts with potential business affiliates
- Experience in the renewable energy field a strong plus

- Proven track record maintaining confidentiality and dealing with company proprietary information

Contact: Paige Carratturo, Executive Recruiter
Richard Wayne & Roberts
877-236-0899 (direct)
206-855-9746 (fax)
paige@rwr.com
<http://www.linkedin.com/in/paigecarratturo>

Geothermal Project Supervisor, Central American Bank for Economic Integration, Costa Rica

The Central American Bank for Economic Integration (Banco Centroamericano de Integracion Economica, BCIE) is looking for an expert in geothermal energy to supervise a project in Costa Rica. It is called Las Pailas and it is financed through BCIE.

Contact: Ana Karina Rubi de Reyes, Oficial de Consultorias, BCIE-Tegucigalpa, Honduras
Tel. +504-240-2243, Ext. 5214
Fax. +504-240-2228

Visit the BCIE Web site, www.bcie.org - www.cabei.org



Requests for Proposals

RFP Announcements

Seeking Investor, Geothermal Project, Oregon

"Oregon investment group performing feasibility work at SE Oregon location is seeking one additional early round investor, knowledgeable in geothermal energy exploration preferred, but not required. Project has secure land block, initial financing, and access to extensive historical database of target site. If interested, contact Peter Hall at Pueblo Valley Geothermal (pbh@bendbroadband.com) for additional details".

Geothermal Energy Development, Department of the Navy

Department of the Navy Naval Air Systems Command Naval Air Warfare Center Weapons Division Dept. 3a Recovery Act - The purpose of this Broad Agency Announcement (BAA) is to solicit proposals for investigations of geological properties associated with active geothermal systems within select regions of Naval Air Station (NAS) Fallon, NV; Naval Air Facility (NAF) El Centro, CA; Chocolate Mountains Gunnery Range (Chocolate Mountains), CA; and Hill Air Force Base (AFB), UT. The object is to perform geological investigations that could potentially lead to the discovery of a geothermal resource. This notice constitutes a BAA as contemplated in FAR 6.102(d)(2). A formal Request for Proposal (RFP)/Solicitation will not be issued. The Naval Air Weapons Division (NAWCWD) will not issue paper copies of this BAA. NAWCWD reserves the right to select for award, all, some, or none of the Proposals in response to this BAA. NAWCWD reserves the right to fund all, some, or none of the Proposals received under this BAA. NAWCWD provides no funding for direct reimbursement of proposal development costs. Technical and Cost Proposal (or any other material) submitted in response to this BAA will not be returned. It is the policy of NAWCWD to treat all Proposals as competition sensitive Bid and Proposal Information and to disclose their contents only for the purpose of evaluation. Awards will be to United States (U.S)

companies only. All contracts resulting from this announcement are subject to the federal Acquisition Regulation and the Department of Defense Federal Acquisition Regulation Supplement. SEE ENCLOSED ATTACHMENT FOR SPECIFIC INFORMATION AND FORMATTING THAT MUST BE FOLLOWED WHEN PREPARING PROPOSALS FOR THIS CONTRACTING EFFORT. This enclosure calls out another document "Genetic Occurrence Models for Geothermal Prospecting, N68936-04-C-0057", which is attachment 2 to this notice. Place of Performance (if applicable): Naval Air Station (NAS) Fallon, NV; Naval Air Facility (NAF) El Centro, CA; Chocolate Mountains Gunnery Range (Chocolate Mountains), CA; and Hill Air Force Base (AFB), UT.

See <http://www.tradingmarkets.com/site/news/Stock%20News/2650824/>.

Global Climate Change Education, NASA (April 28)

The National Aeronautics and Space Administration (NASA) requests proposals for Global Climate Change Education: Research Experiences, Modeling and Data. Areas of interest include: 1) Global Climate Change Science Research Experiences for Undergraduate or Community College Students and Pre- or In-Service Teachers including those in nontraditional teacher licensure programs, and 2) Using NASA Earth system data, interactive models and/or simulations to Strengthen Teaching and Learning about Global Climate Change. \$8 million expected to be available, up to 25 awards anticipated. Notice of Intent is requested but not required and is due 3/18/10, final proposals due 4/28/10. For more info, contact Tamra Ross at tkross@nasaprs.com or go to: <http://nspires.nasaprs.com/>. Refer to Sol# NNL10ZB1011C. (Grants.gov 2/18/10)

Industrial Technologies Technical Assistance, DOE (May 6)

The U.S. Department of Energy requests proposals for Industrial Technologies Program Superior Energy Performance Program Administrator Technical Assistance. Through this RFP, DOE seeks to fund an administrator and technical assistance provider for the new American National Standards Institute- accredited Superior Energy Performance industrial plant/facility certification program (SEP-PA). The purpose of SEP is to serve as a roadmap for achieving continual improvement of energy efficiency at industrial facilities. Up to \$5 million expected to be available, 1 award anticipated. Responses due 5/6/10. For more info, contact Michael Buck at michael.buck@go.doe.gov or go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000246&agency=DOE>. Refer to Sol# DE-FOA-0000246. (Grants.gov 2/24/10)

Climate Change Education, NSF (May 24)

The National Science Foundation requests proposals for the Climate Change Education Partnership Program. This program seeks to establish a coordinated national network of regionally or thematically based partnerships devoted to increasing the adoption of effective, high quality educational programs and resources related to the science of climate change and its impacts. \$10 million expected to be available, up to 15 awards anticipated. Letters of Intent due 4/23/10, final proposals due 5/24/10. For more info, contact Karen Oates at koates@nsf.gov or go to: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf10542. Refer to Sol# 10-542. (Grants.gov 2/24/10)

Climate Adaptation and Disaster Resilience – Indonesia (July 26)

The U.S. Agency for International Development, Mission in Indonesia, requests proposals for Climate Adaptation and Disaster Resilience (CADRE). Indonesia is particularly vulnerable to climate change and disasters. CADRE supports projects that address climate change and disasters by efficiently, effectively and sustainably addressing the needs for disaster risk reduction and climate change adaptation together, among vulnerable populations in Indonesia. Multiple awards ranging from \$500K to \$1.5 million anticipated. Concept Papers are due 1/25/10 and 7/26/10. For more info, contact Johanna Gardjito at aps10-005@usaid.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&opId=50515>. Refer to Sol# APS10-005. (Grants.gov 12/7/09)

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)

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)



Events

Added This Week

USRE Workshop, California Energy Commission, Sacramento, CA (April 6)

Tuesday, April 6, 2010

1:30 p.m. to 3:30 p.m. California Energy Commission 1516 Ninth Street First Floor, Hearing Room A
Sacramento, California 95814 (Wheelchair Accessible)

The California Energy Commission's Public Interest Energy Research (PIER) Renewables Program and Geothermal Resources Development Account (GRDA) Program will hold an information exchange workshop to obtain input and comments from the renewable energy industry, experts, and other interested parties on research needs concerning Utility Scale Renewable Energy (USRE). The goal of this workshop is to identify critical research, development, and demonstration (RD&D) issues and solutions to help accelerate RD&D and increased deployment of USRE in an environmentally responsible manner.

USRE RD&D seeks to address technical integration barriers to accelerated deployment of renewable energy (RE) resources feeding in to the state's transmission grid. In addition, this research will also minimize the environmental impacts and fresh water consumption of renewable energy facilities.

For details, see <http://www.energy.ca.gov/research/notices/>.

GEA Events

CGEC California Geothermal Energy Summit, May 10, 2010 (Davis, CA)

<http://cgec.ucdavis.edu/>
UC Davis Campus

Monday, May 10, 2010

8 am – 5 pm
Mondavi Center, UC Davis, Davis, California

The California Geothermal Energy Collaborative will be holding the 2010 California Geothermal Forum (formerly called the Summit) on May 10th as part of the UC Davis Energy Institute's UC Energy Week 2010.

The California Geothermal Forum will feature panels of recognized experts discussing:

- * The current status of new transmission infrastructure
- * The evolving California energy and environmental landscape - updates on draft California Air Resources Board (CARB) efforts, RPS and AB32/Green House Gas goals and what they mean for geothermal energy
- * Community-scale geothermal efforts - distributed generation, hybrid applications and incentives

Over the last two years numerous changes have affected how California views and uses energy. Attendees will have an opportunity to hear about the current direction of technology, regulations and incentives that affect the use of geothermal energy. Leaders from the regulatory, industrial, utility, R&D and county/city/community arenas will discuss their perspectives regarding this dynamic and challenging time for the use of geothermal energy in the state.

A Monday evening reception from 5–7 p.m. will be a free event at the UC Davis Conference Center. It will provide an informal venue for participants from all areas of renewable energy to meet and discuss topics of mutual interest.

Project Peer Review, DOE Geothermal Technologies Program, Crystal City, VA (May 18–20)

The Geothermal Technologies Program (GTP) will be holding a project peer review May 18-20, 2010, in Crystal City, Virginia. Key investigators involved in geothermal research projects will make short presentations and discuss their research with a panel of peer reviewers. Recently completed, in progress, and new projects will all be represented. On May 18, prior to the review, DOE managers will discuss GTP's challenges, opportunities, and plans for the future in a half-day meeting. DOE requires periodic third-party peer reviews of programs to evaluate their effectiveness, management, productivity, and relevance to DOE goals.

It has been several years since GTP's last peer review and the program is excited to see all its projects and principal investigators together in one place. The program looks forward to productive discussions and feedback on the projects.

The 2010 GTP Peer Review will be held at:

Hyatt Regency Crystal City
2799 Jefferson Davis Highway
Arlington, VA 22202

Visit <http://crystalcity.hyatt.com/hyatt/hotels/index.jsp> for more information. Block rates will be provided to GTP Peer Review attendees.

See http://www1.eere.energy.gov/geothermal/news_detail.html?news_id=15832.

**Note: For anyone attending the DOE GTP program review on May 18–20, GEA will extend the reduced GEA Member/Government Employee rate for admission to the GEA Global Geothermal Showcase and Forum on May 21 in Washington, DC. The program will include a panel of leading research project presentations!*

GEA Global Geothermal Showcase and Forum, May 21, 2010 (Washington, DC)

GEA will be holding a one-day "Global Geothermal Showcase and Forum" in Washington, DC on Friday, May 21, 2010 at the Ronald Reagan Building and International Trade Center. The "Global Geothermal Showcase and Forum" will provide a showcase of current geothermal projects and policies in the U.S. and around the world.

The day's agenda will include presentations and panel discussions by U.S. and international government representatives on geothermal power as well as an overview of GEA's forthcoming International and U.S. Geothermal Industry Updates by GEA staff and others. Other topics to be covered include national and

international policies to support geothermal development, the global potential for geothermal energy, and geothermal research and technology developments.

Confirmed speakers include:

- Jay Nathwani, Technology Manager, U.S. Department of Energy Geothermal Technologies Program
- Jacques Beaudry-Losique, Deputy Assistant Secretary for Renewable Energy of the Office of EERE, confirmed
- Chris Miller, Senior Advisor to Senator Harry Reid
- Allyson Anderson, Professional Staff, Senate Committee on Energy and Natural Resources
- Karl Gawell, Executive Director, Geothermal Energy Association
- Richard Clayton, Principal Executive Officer, Raser Technologies
- Halley Dickey, Director of Geothermal Business Development, TAS
- Toni Volpe, President, Enel North America
- Lou Capuano, Jr., CEO, ThermaSource, LLC
- Jonathan Weisgall, VP, Legislative and Regulatory Affairs, MidAmerican Energy Holdings Co.
- C.J. Arrigo, Director, Glacier Partners Corp.
- Alison Thompson, VP Corporate Relations, Magma Energy Corporation
- George Alcorn, CEO, Universal GeoPower
- Josh Nordquist, Project Manager, Ormat Technologies
- Charles Baron, Researcher, Climate and Energy Team, Google.org
- Bernie Karl, Owner, Chena Hot Springs
- Dr. Jefferson Tester, Croll Professor of Sustainable Energy Systems, Cornell University
- Ryan Mulholland, International Trade Specialist, U.S. Department of Commerce
- Mark Taylor, Lead Analyst, CCS and Geothermal, Bloomberg New Energy Finance
- Kerry McDonald, West Indies Power
- Mike Ronzello, North American Sales and Business Development Manger, Pratt & Whitney Power Systems
- Randy Norman, Perma Works
- Kermit Witherbee, Bureau of Land Management
- Brian Fairbank, President and Chief Executive Officer, Director, Nevada Geothermal Power
- James M. Kiiru, Commercial Attache, Embassy of the Republic of Kenya

Registration is open and available at http://geo-energy.org/workshops/workshop_may21.aspx. There will also be a limited space for tabletop displays for companies who wish to showcase their company and projects. Special thanks to our Gold Level Sponsor to date; Pratt & Whitney Power Systems.

Contact: Kathy@geo-energy.org

GEA Geothermal Energy Workshop, July 22, 2010 (Las Vegas, NV)

GEA is planning a Geothermal Energy and Utilities Workshop on July 22, 2010 in Las Vegas. This event will cater to the large number of utilities that are interested in geothermal energy. Registration opening in mid-April.

Contact: Kathy@geo-energy.org

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

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

Exhibitor Registration is open. Register at <http://www.geothermalenergy2010.com/>.

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

World Geothermal Congress, April 25–30 (Bali, Indonesia)

Press Release, March 2 — Some of the most innovative energy products will soon be on show in Bali for the World Geothermal Congress. The event will be held at the Bali International Convention Centre in Nusa Dua from April 25th to 30th, with delegates and experts from across the globe travelling to the island to exchange ideas and experiences. According to the Indonesian Geothermal Association (INAGA), nations such as China, Germany, Italy and the US will be represented at the event, with delegates from the World Bank and the European Union also in attendance. As well as panel discussions and seminars, the congress will feature an exhibition showcasing the latest in geothermal technology. To coincide with the event, INAGA is also hosting a special golf tournament on April 25th for delegates using accommodation in Bali. A program of field trips to sites of geothermal interest in Indonesia has also been arranged as part of the conference schedule.

May 2010 Geothermal Lease Sale, BLM, Reno, NV (May 11)

The next geothermal lease sale is tentatively scheduled for May 11, 2010 at:

Bureau of Land Management

Nevada State Office

P.O. Box 12000 (1340 Financial Blvd.)

Reno, Nevada 89520-0006

See <http://www.blm.gov/nv/stJen.html> and

http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal0/ggeothermal_leasing.html.

Project Peer Review, DOE Geothermal Technologies Program (May 18–20)

The Geothermal Technologies Program (GTP) will be holding a project peer review May 18-20, 2010, in Crystal City, Virginia. Key investigators involved in geothermal research projects will make short presentations and discuss their research with a panel of peer reviewers. Recently completed, in progress, and new projects will all be represented. On May 18, prior to the review, DOE managers will discuss GTP's challenges, opportunities, and plans for the future in a half-day meeting.

The 2010 GTP Peer Review will be held at:

Hyatt Regency Crystal City

2799 Jefferson Davis Highway
Arlington, VA 22202

From http://www1.eere.energy.gov/geothermal/news_detail.html?news_id=15832.

Clean Energy and Business Development Mission, U.S. Department of Commerce, May 23–25 (Indonesia)

Secretary of Commerce Gary Locke will lead a business development trade mission to Indonesia in May focused on clean energy deployment. Interested companies and trade associations can apply at http://www.trade.gov/cleanenergymission/tg_main_002483.asp. The mission should be a great opportunity for the U.S. geothermal industry to further deploy technologies in Indonesia. Contact Ryan Mulholland at Ryan.Mulholland@trade.gov or (202) 482-4693 or email CleanEnergyMission@doc.gov.

13th Annual Congressional Renewable Energy + Efficiency EXPO + Forum (May 27)

Sustainable Energy Coalition
Cannon House Office Building — Caucus Room
Thursday, May 27, 2009

Geothermal Energy Weekly

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

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