

Geothermal Energy Weekly

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April 13, 2010

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



National News

Geothermal Grows 26% in 2009: GEA Identifies New Projects Underway in 15 States

The US geothermal power industry continued strong growth in 2009, according to a new report by the Geothermal Energy Association (GEA). The April 2010 US Geothermal Power Production and Development Update showed 26% growth in new projects under development in the United States in the past year, with 188 projects underway in 15 states which could produce as much as 7,875 MW of new electric power.

When completed, these projects will add over 7,000 MW of baseload power capacity; enough to provide electricity for 7.6 million people, or 20% of California's total power needs, and roughly equivalent to the total power used in California from coal-fired power plants. "Geothermal power can be a critical part of the answer to global warming," according to GEA's Executive Director, Karl Gawell. "For example, California could achieve its 2020 goal for global warming emissions reductions just by keeping energy demand level and replacing its coal-fired generation with geothermal," he asserted.

Nevada continued to be the leading state for new geothermal energy, with over 3,000 MW under development. The fastest growing geothermal power states were Utah which quadrupled its geothermal power under development, New Mexico which tripled, Idaho which doubled, and Oregon which reported a 50% increase. In addition, Louisiana, Mississippi and Texas all reported their first geothermal projects compared with a year earlier.



Photo: Stillwater (Enel)

"These geothermal power projects will create substantial sources of new employment across the country," said GEA Executive Director Karl Gawell. "Not only are we seeing more and more development and hiring in places with a long history of geothermal like Nevada and California, but for the first time these jobs are being created in the Gulf Coast, in states such as Louisiana and Mississippi. Along with a huge number of new construction jobs, geothermal power also creates many permanent positions that can never be outsourced." Together, the direct, indirect and induced employment created by these projects is estimated by GEA to be 29,750 permanent jobs and 112,000 person-years of construction and manufacturing employment." According to GEA, the projects under development will represent capital investment of more than \$35 billion when completed.

New geothermal power projects are in progress in fifteen states from the Pacific to the Gulf Coast. GEA identified new projects in Alaska, Arizona, California, Colorado, Hawaii, Idaho, Louisiana, Mississippi, Nevada, New Mexico, Oregon, Texas, Utah, Washington and Wyoming. In addition to large utility scale power projects, the survey continued to show expanding interest in small power systems (under 1MW) with projects in Mississippi, Louisiana, Texas, Oregon and Wyoming.



Photo: Thermo (Raser)

"The federal stimulus, tax incentives, and strong state renewable standards continue to fuel the growth in geothermal power," said Gawell. "Many geothermal developers are building several projects in the US, and the cash grant provides them an effective incentive that quickly reduces their debt -- an important fact in the present economic recession." GEA noted that all of the geothermal power projects coming on line in 2009 utilized the new federal tax grant provisions authorized in the stimulus bill. In addition, four of the top five states with geothermal power under development have substantial renewable standards. Those states in order of geothermal

development and their state renewable requirement are: 1) Nevada (25%), 2) California (33%), 3) Utah (20%), 4) Idaho (none), and 5) Oregon (25%).

The report also documents federal stimulus funding in the geothermal industry, which will result in over \$600 million of research into new technology at 135 projects in 25 states over the next two years. "Stimulus funding will support geothermal development in states where geothermal technology presents vast new opportunities," notes Dan Jennejohn, the author of the report. DOE stimulus funding has been targeted to support development of enhanced geothermal systems technology, new drilling and exploration techniques, geothermal power production from oil and gas wells, and other industry needs.

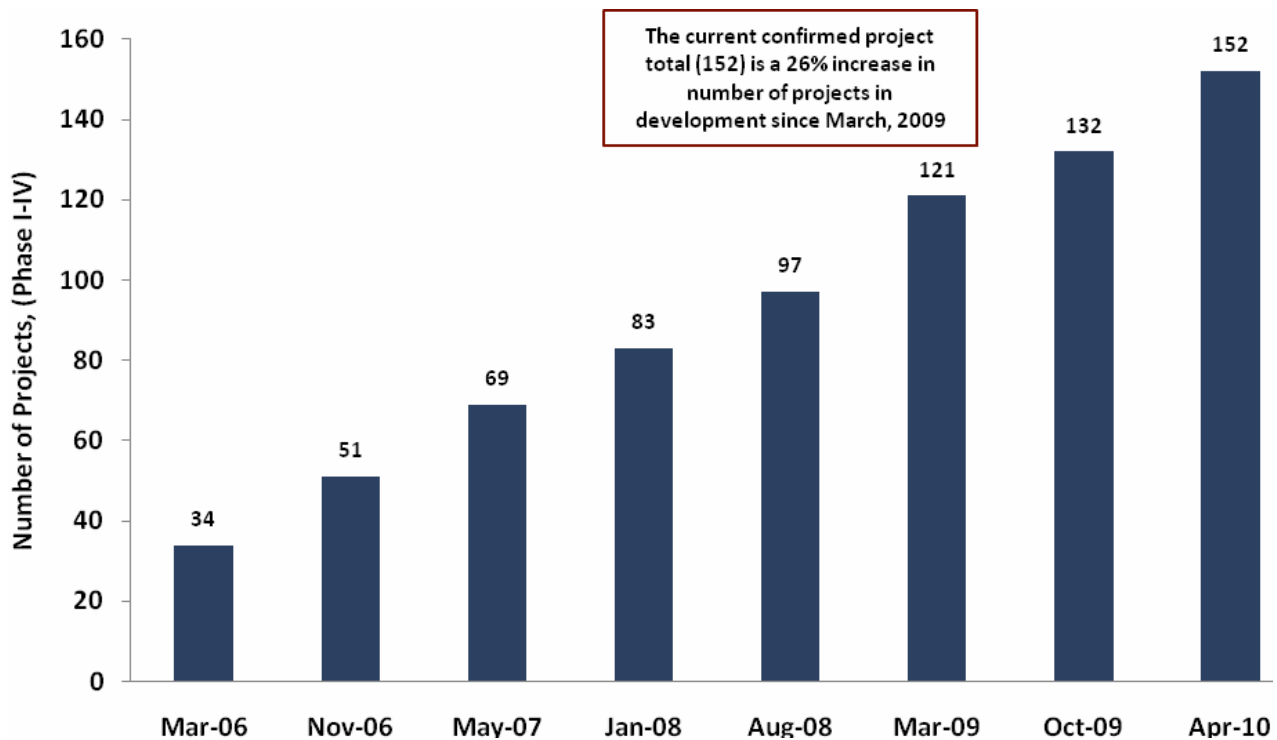
"In our survey last fall, we were concerned that the progress of new projects appeared to be stalling due to financing and permitting problems," Jennejohn noted. "Now, along with a number of new projects, we are seeing projects continue rapid development indicating that growth is returning across the industry."

GEA held a press teleconference to unveil the new report today. In addition to Karl Gawell and Dan Jennejohn from GEA, Bob Warburton, Operating Partner, Denham Capital; Bob Manasse, Vice President, Development, Enel North America, Inc.; Shuman Moore, CEO, Oski Energy; and Mike Hayter, Director of Geothermal Development, Raser Technologies joined the press event.

The full report is available at <http://www.geo-energy.org/>.

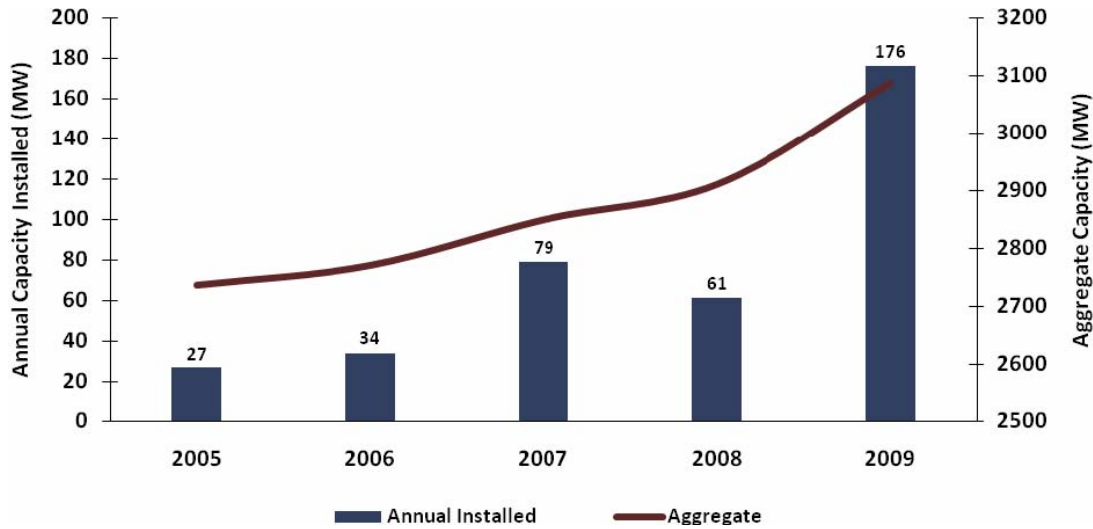
Total Confirmed projects 2006–2010

(Figure 4, April 2010 US Geothermal Power Production and Development Update)



Total Installed Capacity 2005 – 2009

(Figure 2, April 2010 US Geothermal Power Production and Development Update)



Projects in Development Totals by State

(Figure 3, April 2010 US Geothermal Power Production and Development Update)

State	Projects Phase 1-4	MW	Total # Projects (w/unconfirmed)	Total MW
Alaska	5	35	7	80
Arizona	0	0	1	2-20
California	29	1402.8-1765.8	35	1609.7-1997.7
Colorado	1	10	1	10
Hawaii	2	8	2	8
Idaho	9	413-676	12	413-676
Louisiana	2	5.3	2	5.3
Mississippi	1	0.05	1	0.05
Nevada	68	1804.43-3265.43	86	2120.43-3686.43
New Mexico	2	35	2	35
Oregon	11	242-373	15	342-473
Texas	1	0.4	1	0.4
Utah	20	628-883	21	628-883
Total	152	4584.26 -7057.26	188	5254.21 – 7875.16

Ways and Means Committee Announces Hearing on Energy Tax Incentives

On April 14, the Committee on Ways and Means will hold a hearing on energy tax incentives and the green job economy. The committee seeks to examine the current energy tax policy and identify steps to ensure continued job growth in this area and to advance national energy policy focus on current and proposed energy tax incentives.

House Ways and Means Committee Chairman Sander M. Levin announced the hearing. "Investing in energy efficiency and renewable energy has major potential to create new jobs and help our economy recover," Levin said. "In recent years we have made significant investments in policies to encourage and enhance domestic manufacturing and production of renewable energy as well as the use of more efficient fuel sources. This hearing will examine benefits currently in place and discuss potential for new incentives to further drive job creation, economic growth, and reduce our dependence on foreign oil."

The committee will hear testimony from invited witnesses; individuals or organizations not scheduled can submit a written statement. For more info, to listen to the hearing by webcast, and to submit a statement to the committee, go to <http://waysandmeans.house.gov/Hearings/hearingDetails.aspx?NewsID=11120>.

White House Official Signals Renewed Focus on Climate Legislation

Last week Larry Summers, head of the White House National Economic Council said moving forward with climate change legislation is a top priority for the administration this year, according to nytimes.com. Summers added that a climate and energy bill will help the U.S. economy in sweeping ways, from introducing short-term jobs to building confidence for private-sector investments.

"Ultimately, economic policy choices, like investment decisions for a family, involve seeking opportunity and involve minimizing risk," Summers said. "If you think about the risks to our ecology, the risks to our security, we minimize those risks with comprehensive energy policy. And if you think about the opportunity to lead in what is really important, we maximize that opportunity with comprehensive energy legislation. That's why energy is so crucial a part of President Obama's economic strategy."

He said there is "increasing evidence" of bipartisan support, citing plans by Sens. John Kerry (D-Mass.), Lindsey Graham (R-S.C.) and Joe Lieberman (I-Conn.) on a bill that would limit greenhouse gas emissions and expand federal support for nuclear power, offshore oil-and-gas drilling, and low-emissions coal projects.

With the administration's push for climate legislation, many are watching the president's steps toward passage. "There's something about the president or vice president of the United States talking to you about these things that helps get to 'yes,'" Dan Weiss, a senior fellow at the left-leaning Center for American Progress. See <http://www.nytimes.com/gwire/2010/04/12/12greenwire-some-see-white-house-rhetoric-signaling-climat-88495.html>.

Renewable Energy Industries Seek Treasury Grant Program Extension

A February 26 letter addressed to The Honorable Harry Reid, Senate Majority Leader urges the extension of the construction start date deadline on projects seeking the grant in lieu of tax credit under the American Recovery and Reinvestment Act. It is signed by leaders in the renewable energy industries, including GEA, who identify an extension of the Treasury Grant Program as a top priority that will lead to thousands of jobs.

Dear Senator Reid:

The nation remains focused on the need to address urgent economic challenges, including the immediate need to maintain and generate jobs. As Congress considers jobs creation legislation to address these economic challenges, the Business Council for Sustainable Energy (BCSE) strongly urges you to extend the start of construction deadline in the grant in lieu of a tax credit program created in section 1603 of the American Recovery and Reinvestment Act (ARRA). This extension is imperative to creating renewable jobs this year and allowing renewable energy industries to realize the growth potential envisioned under the ARRA.

The Business Council for Sustainable Energy is an industry coalition that includes businesses and trade associations representing the suite of currently available energy technologies for reducing emissions of greenhouse gases. Biogas, biomass, geothermal, hydropower, solar, wind, and other renewable energy options, combined with supply-side and demand-side energy efficiency and natural gas, are proven economic engines that will foster economic growth and create new high-quality jobs. Industry analyses and the government's own studies show that these existing clean energy technologies and resources can provide a significant percentage of the nation's energy needs while creating thousands of jobs in all regions of the country. The energy efficiency and clean energy investments begun in 2009 by the ARRA created opportunities and incentives for clean energy industries and helped to demonstrate that carbon reduction policies do not have to result in costly regulation. However, more needs to be done to create jobs and sustain the economic growth opportunities in the ARRA.

Section 1603 of the ARRA authorizes the Department of Treasury to issue grants to renewable energy facilities that would otherwise qualify for the investment tax credit which are completed in 2009 or 2010 or start construction in 2009 or 2010 and are completed by a deadline. The two-year extension would have the effect of moving the commence construction date to December 31, 2012. Designed to take the place of the decimated tax equity market, the Treasury Grant Program enabled renewable energy industries to survive 2009 and install record numbers of new clean energy systems. Today, the economy is recovering, but slowly. A two-year extension of the deadline to start construction of new renewable energy projects in the Treasury Grant Program would maintain this momentum, avoid a decline in the renewable industry, and jumpstart clean energy projects and jobs nationwide.

The renewable energy industries, including hydropower, solar and wind, are unanimous in identifying an extension of the Treasury Grant Program as a top priority in a jobs bill. The extension will directly translate into thousands of jobs all over the country. We look forward to working with you to enact jobs legislation to address this critical issue. If you have any questions or comments, please feel free to contact me in the Council's offices.

Sincerely,

Lisa Jacobson, President, Business Council for Sustainable Energy
Denise A. Bode, Chief Executive Officer, American Wind Energy Association
Linda Church Ciocci, Executive Director, National Hydropower Association
Karl Gawell, Executive Director, Geothermal Energy Association
Rhone Resch, President and CEO, Solar Energy Industries Association



Company News

ElectraTherm: New CEO Joins ElectraTherm from UTC

Press Release, April 5 — ElectraTherm, Inc., announced today that John Fox has joined the company as Chief Executive Officer. Mr. Fox will lead the ElectraTherm team to extend its position at the forefront of heat-to-power systems in the distributed energy market.

Mr. Fox joins ElectraTherm from United Technologies Corporation's Pratt & Whitney Power Systems Division, where he was Director and General Manager of the Organic Rankine Cycle (ORC) Business. Mr. Fox's management of the PureCycle® program drove the ORC technology from the development phase through to successful commercialization.

"After more than five years leading UTC's development and deployment of the PureCycle ORC power system, I've seen the incredible potential of distributed heat-to-power systems, particularly in the smaller system size that ElectraTherm has introduced," said John Fox, ElectraTherm CEO. "I see great things ahead for the company, and I look forward to leading the charge."

For more, see <http://www.pr-inside.com/new-ceo-joins-electratherm-from-united-r1814081.htm>.

Ram Power: Agreement Signed for IID-Owned Lands

Press Release, April 6, Reno, NV —Ram Power announced today that its subsidiary Ram Power, Inc. has signed a term sheet with the Imperial Irrigation District ("IID") for a public-private partnership to develop one or more 49.9 MW geothermal projects on IID owned lands in the Imperial Valley, California (the "Project"). Under the terms of the contemplated transaction, the Project will be owned and developed by Ram Power's to-be-formed subsidiary that will enter into a market based power purchase agreement with IID to sell 49.9 MW of power (the "PPA"). The PPA will provide for an option (but not an obligation) for IID to pre pay a portion of Project's output upon the Project reaching commercial operation. A portion of the output of the Project may be purchased by other members of the Southern California Public Power Authority. IID will also have the option to acquire an ownership interest in the Project after 7 or 10 years from commercial operation, depending on tax incentives utilized by the Project.

The term sheet, which was approved by IID's board of directors, is the culmination of IID's Request for Proposal No. 703 initiated in 2009. Ram Power's proposal was selected from several competing offers by other geothermal developers. The term sheet will be used as the basis for the PPA, the geothermal lease and other associated agreements between Ram Power and IID. The prepaid option in the PPA allows IID to provide the equivalent of debt financing to the Project at IID's low bond financing interest rate.

In making the announcement, Dan Schochet, Ram Power's Executive Vice President, said, "This Project, which is structured to benefit from various federal incentives, represents the first step for Ram Power to join in a true public-private joint venture to utilize the strengths of IID as a publically owned utility along with the experience of Ram Power to develop the vast amount of base load, cost effective geothermal energy resources in the Imperial Valley." Schochet went on to say that, "This Project, as well as others planned to follow, will provide significant benefits to the residents of the Imperial Valley by creating high paying jobs and contributing to the overall economic development of the region."

See http://www.marketwatch.com/story/ram-power-to-enter-agreement-with-imperial-irrigation-district-for-supply-of-geothermal-power-from-lands-owned-by-the-district-2010-04-06?reflink=MW_news_stmp.

Ram Power: Production Well Drilling Underway for Orita I and San Jacinto Projects

Press Release, April 12 — Ram Power, through its subsidiary Ram Power, Inc., is pleased to announce that it has commenced the six-well drilling program permitted for the Orita I geothermal development project which is underway in Imperial County, California. This drilling program will define and test the resource zones that will supply steam to the planned 49.9 MW Orita I power plant. Ram Power, Inc. has contracted Nabors Drilling USA to use Nabors Drilling Rig 415 to test both permeable sand units and fault fracture units within the depth range of 7,000' to 10,000' to delineate the quality of the reservoir system. Spud date for the Orita well no. 2 location was April 8, 2010 and it is expected to require 45 days to drill, complete and test this first well. Drilling is planned to develop resource fluids contained in competent rock units at temperatures in excess of 400°F.

The Orita resource area was explored previously by operators active in the 1980s and the area was designated as a Known Geothermal Resource Area with identified resource temperature of 574 degreesF and wells tested at commercial flow rates. The 49.9 MW Orita I project is expected to be completed by the end of 2012 and power will be sold to Southern California Edison under an existing power purchase agreement with Ram Power's subsidiary Orita Geothermal I, LLC.

Stu Johnson, Vice President for Geothermal Resources, stated "Permitting for the drilling and for the conduct of seismic and magneto-telluric geophysical surveys used to plan the drilling was coordinated through the lead of Imperial County agencies and their staff. It is a pleasure to work with the residents of Imperial County, and Ram Power looks forward to expanding the green power geothermal base within the region."

See http://www.marketwatch.com/story/production-well-drilling-underway-for-orita-i-and-san-jacinto-projects-2010-04-12?reflink=MW_news_stmp.



Renewable Energy and Climate Change

United States to Host Major Economies Meeting on Climate

From EESI Climate Change News: On April 7, U.S. top climate change negotiator Todd Stern announced plans for the United States to host a meeting of the Major Economies Forum (MEF) to create common ground among the world's largest greenhouse gas (GHG) emitters. Stern stated the meeting would cover issues such as emission targets, climate financing, transparency, forests, and adaptation. The MEF is comprised of 17 countries that emit 80 percent of the world's total GHGs. The planned talks were said to in no way challenge the primacy of UN led negotiations which began in Bonn, Germany, on Friday April 9. The talks will occur on April 18-19 immediately after the UN negotiations.

See <http://www.reuters.com/article/idUSTRE6365XH20100408> and <http://beta.thehindu.com/news/international/article392939.ece>.

Climate Change Already Killing 150,000 a Year Says WHO

From EESI Climate Change News: On April 5, a report in the Bulletin of the World Health Organization (WHO) stated that climate change has already begun to affect human health, estimating that roughly 150,000 deaths occur annually in low-income countries due to the adverse effects of climate change. The report said that the rise in atmospheric temperature and sea levels, coupled with extreme weather events and notably higher frequency of floods, can cause water logging and water contamination and lead to higher incidence of diarrheal ailments. The geographical spread of vector-borne diseases such as malaria and dengue has also increased. The report went on to note that most countries in the Southeast Asian region, home to 26 percent of the world's population and 30 percent of the world's poor, lack sufficient plans for disease and vector surveillance and control. Nor do these countries have adequate health systems in place to serve as barriers against the adverse effects of climate change on human health, the report said. According to the Asian Development Bank, the lack of adequate measures to counter the ill-effects of climate change could result in economic losses of 6-7 percent of the combined gross domestic product of countries in the Southeast Asian region by 2100, compared to a loss of some 2.6 percent of the world's GDP during this period.

See <http://www.business-standard.com/india/news/climate-change-already-killing-150000year-in-low-income-economies-who/390822/>.

Number of Earthquakes Remains Steady, Says Seismologist

In a New York Times article, Roger Musson, a seismologist with the British Geological Survey explains that despite frequent suggestion otherwise, earthquakes are not becoming more frequent.

"It's true that more earthquakes are recorded than used to be the case, but that's simply because there are more monitoring stations that are able to pick up minor earthquakes that once went undetected," Musson says. "If we compare the average global rates of large earthquakes, we find that these are stable as far back as we can trace them. On average, we record an earthquake with a magnitude over 6 every three days or so, and over 7 at least once a month."

To explain why earthquakes may have seemed more common lately, Musson says there has been a run of earthquakes in highly populated places which always garners increased media attention. Also, he adds, in any semi-random process you get clustering — "No one ever asks me during the quiet periods if earthquakes are becoming less frequent," he says.

In fact, the number of earthquakes remains relatively constant as a rule of basic geology. "Quakes release a lot of energy, and that energy has to come from somewhere. Ultimately, the source of it is heat released by the steady decay of radioactive material deep inside the earth. For a real long-term increase in earthquake activity, there would have to be an increase in that energy supply, and it's hard to see how that could happen," Musson says.

See <http://www.nytimes.com/2010/04/11/opinion/11musson.html>.



State News

Colorado: Geothermal Energy Bill Receives Initial Approval

This week in Colorado the House gave initial approval to Senate Bill 174, which gives geothermal the same property taxes as solar and wind energy, according to durangoherald.com. "The potential of geothermal to heat Colorado exceeds even solar and wind. It really ultimately could be the resource we use to heat the country, and Colorado will be at the forefront," said Rep. Christine Scanlan, D-Dillon, who sponsored the bill.

Under the bill the state engineer can deny a geothermal water permit if it would lower the temperature in a protected spring. It also allows geothermal developers to use a surface owner's land under a split-estate situation as is done with gas and oil drilling on private land.

See

http://durangoherald.com/sections/News/2010/04/10/House_lawmakers_get_geothermal_energy_bill_moving/.

Hawaii: Solar Thermal Plant to Utilize Geothermal Turbine

Pacific Light & Power is planning a solar thermal plant combining a trough solar collector with a turbine used in geothermal systems, according to greentechmedia.com. The plan for a 10-MW field is small in comparison to most solar thermal fields; the plan is to construct it economically using the low-temperature benefits of geothermal turbines. The plant will be completed in 2011 and will provide nearly 7% of Kauai's power needs.

See <http://www.greentechmedia.com/articles/read/geothermal-and-solar-power-to-get-married-in-hawaii/>.

New Mexico: Drilling Complete on Exploratory Well for New Mexico Tech

Drilling is complete on a 1,100-foot exploratory well that could be used to geothermally heat the main campus of New Mexico Tech, according to dchieftain.com. The changeover to geothermal heat is funded by the federal stimulus. Annual savings after the switchover are estimated at around \$500,000, and the investment could pay for itself in less than 10 years.

Dr. Mark Person, Tech hydrology professor, is leading the project. "President (Dr. Daniel H.) López just secured funding for New Mexico Tech to do a statewide geothermal assessment, to quantify and identify where our geothermal resources are, and that's just starting up this year," Person told press. "So this is the year for geothermal energy at Tech, both in terms of developing a district heating system and also trying to work with the state to better characterize where the geothermal resources are and trying to encourage their development."

"There are other examples, other parts of the state where they have these warm fluids, and this is going to be a demonstration of what you can do with these resources," said Person.

See <http://dchieftain.com/dc/index.php/news/862-new-mexico-tech-gets-into-hot-water.html>.



International News

Australia: Innamincka Geothermal Project Back on a New Schedule

The Innamincka geothermal project in South Australia, led by Geodynamics (70%) and Origin Energy (30%), is back after a well blowout last year delayed the project. On the new schedule, the station will open in early 2012, according to smh.com.au.

Geodynamics managing director, Gerry Grove-White, told press "lessons had been learnt" from the blast. "We didn't have a complete understanding of the brine chemistry and we chose the wrong steels for that chemistry. We have learnt all about that and we now know what steels to choose, which we have chosen for the Jolokia 1 and Habanero 4 wells," he said. "As part of that process we met with the CEOs of other geothermal companies to help them understand as well what went wrong ... that was important for the future development and credibility of the industry."

See <http://www.smh.com.au/business/geodynamics-learns-its-lesson-from-well-blowout-20100413-s7mi.html>.

China: Project Launched at Yangpachen Geothermal Reserve

On March 19, a 1,000-kw project was launched at the Yangbajain Geothermal Power Station, according to tibetanreview.net. The station first became operational in 1977 and has a current total installed capacity of 25,000 kw. Dorje, director of the region's Bureau of Geology and Mineral Exploration and Development, told press the Tibet Autonomous Region contains the most geothermal reserves in the People's Republic of China. Dorje stated the geothermal energy at the reflected a total potential installed capacity of at least 30,000 kw.

See <http://www.tibetanreview.net/news.php?id=6051>.

Indonesia: Terra Energy Announces Negotiations on Indonesian Geothermal Project

Press Release, April 6 — Terra Energy Resources, Ltd. (OTC Bulletin Board: TRRE) announced today that it has entered into negotiations with Jala Tekno Geothermal ("Tekno"), a subsidiary of Pandawa Energy, a Renewable/Geothermal Energy Holding Company based in Jakarta, Indonesia, for possible areas of mutual cooperation, including finance, for the subsidiary company's proven geothermal resource located in on the Indonesian island of Java. Tekno has successfully drilled a steam producing well, currently capped, that, according to Tekno management has been evaluated at over 6MW (six mega-watts) of steam in a field owned by Tekno that has been indicated to hold geothermal resources in the range of 75MW to 150MW.

Pandawa Energy is presently attempting to develop two (2) proven geothermal resource areas on the island of Java and three (3) geothermal areas on other Indonesian islands, collectively thought to hold about 1,000 MW of electricity. Pandawa Energy has received letters of interest from a number of major American and European geothermal industry players for both upstream and downstream financing, operational and technical expertise on its geothermal projects. A governmental entity has also issued a letter of intent for development of the Tekno phase one 55MW electric power generation project.

For more, see <http://www.prnewswire.com/news-releases/terra-energy-announces-negotiations-on-indonesian-geothermal-project-90009622.html>.

Indonesia: Raser Contracted for Indonesia Geothermal Study

A feasibility study on the Tangkuban Perahu geothermal concession proposed by Indonesia Power was awarded US \$934,308 in grant funding by the United States Trade and Development Agency, according to renewableenergyworld.com. The agreement was signed on March 29 at a ceremony in Indonesia. Raser Technologies was selected to be the sole source contractor to assess technical, economic, and financial aspects of the resource.

See <http://www.renewableenergyworld.com/rea/news/article/2010/04/raser-selected-as-contractor-for-indonesia-geothermal-study>.

Kenya: China Exim Bank Funds Olkaria IV Geothermal

The Export-Import Bank of China has provided a 7.5 billion shilling loan to Kenya for the drilling of geothermal wells, according to *Reuters*. The funding goes to 26 steam production wells at the Olkaria IV geothermal field in Kenya's Rift Valley for development of 140 MW of energy.

"In consideration of the present energy situation, high fuel prices and over dependence on hydropower production, the government of Kenya now recognises the need to diversify sourcing of power generation through environmentally friendly sources," Finance Minister Uhuru Kenyatta said at the signing ceremony.

See <http://af.reuters.com/article/investingNews/idAFJOE63C05H20100413>.

Japan: Joint Venture to Study Geothermal Feasibility in Akita

A joint venture involving Electric Power Development Co., known as J-Power (50%), Mitsubishi Materials Corp. (30%), and Mitsubishi Gas Chemical Co. (20%) will study the feasibility of geothermal power generation in Yuzawa, Akita Prefecture, according to oregonlive.com. J-Power and Mitsubishi Materials had been conducting a survey on a New Energy and Industrial Technology Development Organization well.

See <http://www.oregonlive.com/newsflash/index.ssf?base/international-28/1271063369160290.xml&storylist=international>.

Kyrgyzstan: Panax Geothermal Project on Hold

A geothermal project by Australian Panax Geothermal is on hold for World Bank financing according to thinkgeoenergy.com. The project is also affected by the current political unrest which has affected other Australian companies and mining projects. High-heat producing granites, low ambient temperatures and thermal springs make the Kyrgyz Republic a potentially great region for geothermal development.

See <http://thinkgeoenergy.com/archives/4366>.

New Zealand: Nga Awa Purua Geothermal Station Complete

Operations have begun on the new Nga Awa Purua Geothermal Power Station, completed ahead of schedule by Mighty River Power and the Tauhara North No.2 Trust, according to nzresources.com. "At 140 MW, Nga Awa Purua will produce enough energy to power around 140,000 homes. That's the equivalent of every home in Taupo, Rotorua, Hamilton and Tauranga," Mighty River Power chief executive Doug Heffernan said.

The station has a total capacity of 140 MW, up from the planned 132 MW. The official opening will take place in May.

See <http://nzresources.com/showarticle.aspx?id=866&qid=3000866> and <http://www.mightyriverpower.co.nz/Generation/PowerStations/Geothermal/NgaAwaPurua/>.



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



Notices

New This Week

BLM Seeking Public Comments on Nevada Geothermal Exploration Proposal

The Bureau of Land Management is accepting written comments following an environmental assessment (EA) for the Coyote Canyon/Dixie Meadows Geothermal Exploration. The two projects, proposed by Terra-Gen Power Dixie Development Company are in the western portion of Dixie Valley. Comments will be accepted through May 10 and should be sent to: Desna Young, planning and environmental coordinator, Stillwater Field Office, 5565 Morgan Mill Road, Carson City, NV 89701. Comments may also be submitted via email to desna_young@blm.gov.

Email should include "Coyote Canyon/Dixie Meadows" in the subject line. The EA and supporting documents are posted at http://www.blm.gov/nv/st/en/fo/carson_city_field/blm_information/nepa.html. A printed copy of the EA can be provided upon request. A copy of the EA is also available in the BLM Carson City District Office during the comment period.

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

Added This Week

Environmental & Permitting Manager, Provo, UT

Job Summary: This position is primarily responsible for obtaining, coordinating and managing all of the company's permitting and environmental compliance activities.

Essential Functions:

- Works with department heads in the project planning process to coordinate and manage all of the company's permitting and environmental compliance activities.
- Prepares and submits all federal, state and local permit applications across department lines e.g. drilling, air, storm water, water rights, CUP, Haz Mat, ROW, construction, etc.
- Prepares and tracks permitting budget.
- Procures the services of and manages environmental contractors who perform permit related activities e.g. Phase I, EA, cultural resource and wildlife surveys, hydrologic and soil studies, etc.
- Prepare compliance matrices (punch list) to be utilized by on-site personnel in maintaining regulatory/permit compliance.
- Provide regular training to on-site managers and personnel to allow them to correctly and effectively comply with regulatory/permit requirements.

- Conducts environmental site reviews, manages permit issues, incident reporting, as well as auditing contractors and other on-site third parties for compliance to regulatory requirements.
- Continually evaluate the status of permitting and compliance activities of each project and plant site with the objective of ensuring that all required environmental permits are in place and that all the requirements and applicable Federal, State and Local rules are in compliance.
- Regularly travels to project locations as well as to meet with stakeholders.
- Management of Occupational Health and Safety.
- Coordinates and collaborates with other departments of the corporation in establishing and carrying out responsibilities.
- Maintains appropriate communications within area of responsibility.
- Consults with all segments of management responsible for policy or action. Ensures compliance within area of responsibility. Makes recommendations for improving effectiveness of policies and procedures.
- Assumes other activities and responsibilities from time to time as directed.

Qualifications:

- Bachelor's Degree in related field e.g. environmental engineering, environmental science or other related science discipline.
- Five or more years related experience in permitting and environmental compliance.
- Demonstrated success in environmental permitting and regulatory compliance activities, particularly working with; BLM and other federal agencies, state agencies; e.g. oil & gas, state engineers, AQ and environmental quality and local rural governments.
- Excellent technical writing skills.
- Strong negotiation skills.
- Proficient in Microsoft Word and Excel. GIS and Primavera a plus.
- Geothermal renewable energy experience is preferred but not required.

Competencies:

To perform the job successfully, an individual should demonstrate the following competencies to perform the essential functions of this position.

- Strong work ethic, with a high level of energy and commitment to the position.
- Effective leadership skills which demonstrate the ability to participate in strategic thinking and problem solving.
- Excellent communication and presentation skills, both oral and written, with the ability to communicate with individuals at all levels both internally and externally.
- Well-developed interpersonal skills. Ability to get along with diverse personalities. Tactful, mature.
- Ability to establish credibility and be decisive—but able to recognize and support the organization's preferences and priorities.
- Ability to function effectively and efficiently in a fast-paced and changing environment with multiple priorities and objectives.

Compensation will include base salary and performance-based stock incentive based on level of experience. We also offer a full range benefit package.

Further information on Raser may be found at: www.rasertech.com.

Resumes can also be directly submitted to: jobs@rasertech.com.

Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory

Idaho National Laboratory is seeking a Renewable Energy Mechanical Systems Engineer. This position will involve the assessment of the overall design and operation of geothermal power plants, as well as individual processes and components within a plant. It will also support development of power system performance assessments and designs. The candidate must be able to apply and interpret standard theories, principles, methods, concepts, tools, and technologies associated with electrical power generation from renewable power sources. Work will include evaluation of the effects of innovative concepts and components on power generation costs. The candidate will make preliminary selections and adaptations of technical alternatives. The candidate will provide technical support to the DOE and Work for Others (WFO) customers which will vary in nature, but will include planning, engineering design, data analysis and analytical support activities as well as monitoring of DOE field research projects. In addition to interfacing with customers, the candidate is expected to document, report

and present results on work performed, contribute to program progress reports, participate in peer review work of others and manage individual cost and schedule performance metrics. The candidate will contribute to development of new capabilities within the division as well as contribute to scientific and technical products such as patents, software, journal papers, reports, proceedings, and policies. The candidate may also contribute to the development of intellectual property leading to patents, publications, and/or copyrights.

Qualifications

S&E Scientist/Engineer 2. A PhD in Mechanical Engineering with relevant experience in power generation is preferred. Applicants with a MS in Mechanical Engineering with two years of relevant post graduation experience in power generation or a related field will be considered. Applicants with Chemical Engineering degrees and documented experience in Geothermal Power Plant design and operations will be also considered, though a Mechanical Engineer degree is preferred. Ability to obtain and maintain and Department of Energy Q security clearance. Must be a United States citizen.

Job ID: #5414, Interested Candidates, 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

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.

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: droberts@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

Closing This Week

Renewables, Nevada (April 16)

NV Energy seeks renewable energy and the associated energy credits from bidders with a minimum capacity of 1 MW. Responses due 4/16/10. For more info, contact RenewablesRFP@NVEnergy.com or go to: <http://www.nvenergy.com/company/doingbusiness/rfps/renewable.cfm>. (Green Power Network 3/2/10)

Clean Energy Consultation, Morocco, U.S. TDA (April 20)

The U.S. Trade and Development Agency requests bids to support or improve its decision-making relative to the funding of clean and renewable energy project activities in Morocco. Responses due 4/20/10. For more info, contact Jason Bell at jbelle@ustda.gov or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=cab0b183f0eb22d700de1729b78ae6c1&tab=core&_cvview=0. Refer to Sol# RFQ-CO2010210008. (FBO 4/8/10)

Added This Week

Green Job Training, U.S. DOL (April 29)

The U.S. Department of Labor requests proposals for Community-Based Job Training Grants (CBJTGs). CBJTGs supports workforce training for high-growth/high-demand industries through the national system of community, technical, and tribal colleges. DOL encourages applicants to consider targeting high growth or emerging green industries. \$125 million expected to be available, award range generally \$1 to \$3 million. Responses due 4/29/10. For more info, contact Janice Sheelor at Sheelor.Janice@dol.gov or go to: http://www.doleta.gov/grants/find_grants.cfm. Refer to Sol# SGA-DFA-PY-09-07. (Grants.gov 3/15/10)

Geologic Sequestration, U.S. DOE (April 30)

The U.S. Department of Energy requests proposals for the Development of Innovative and Advanced Technologies for Geologic Sequestration. Through this RFP, DOE seeks research leading to innovative and advanced technologies that address CO2 geologic storage in all reservoir types and all life cycle phases of CO2 geologic storage operations. \$9.6 million expected to be available, up to 12 awards anticipated. Responses due 4/30/10. For more info, contact Michael DeStefano at michael.destefano@netl.doe.gov or go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000250&agency=DOE>. Refer to Sol# DE-FOA-0000250. (Grants.gov 3/10/10)

U.S. China Clean Energy Research Center, U.S. DOE (May 14)

The U.S. Department of Energy requests proposals for the U.S. China Clean Energy Research Center (CERC). This Center will facilitate joint clean energy R&D by teams of scientists and engineers from the U.S. and China, as well as serve as a clearinghouse to help researchers in each country. Priority topics include: Building energy efficiency; clean coal including carbon capture and storage; and clean vehicles. \$37.5 million expected to be available, up to 3 awards anticipated. Responses due 5/14/10. For more info, contact Linda Sapp at Linda.Sapp@hq.doe.gov or go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000324&agency=DOE>. Refer to Sol# DE-FOA-0000324. (Grants.gov 3/30/10)

State Energy Program, U.S. DOE (May 18 — August 3)

The U.S. Department of Energy requests proposals for the State Energy Program (SEP). This formula grant program provides support to states and territories, for the design and implementation of energy efficiency and renewable energy priorities. Lead applicant must be the state or territorial energy office administering the annual SEP. \$25 million expected to be available, up to 56 awards anticipated. Due date range 5/18 – 8/3/10. For more info, contact Sheldon Funk at sheldon.funk@netl.doe.gov or go to:

<https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000308&agency=DOE>. Refer to Sol# DE-FOA-0000308. (Grants.gov 3/26/10)

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&oppld=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

GEA Events

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

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 CGEC 2010 California Geothermal Forum features keynote speakers Jay Nathawani, Acting Director of the DOE Geothermal Program, and Mary Nichols, Chairwoman of the California Air Resources Board.

In addition, there will be panel presentations on

- the current status of new transmission infrastructure,
- the evolving California energy and environmental landscape,
- the latest information on USGS efforts, RPS and AB32 goals,
- and community-scale geothermal efforts.

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 in the state and Western region.

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.

Visit <http://cgec.ucdavis.edu/>. Registration is now open at <http://conferences.ucdavis.edu/confreg/index.cfm?confid=485>

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, Washington, DC (May 21)

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, Las Vegas, NV (July 22)

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, Sacramento, CA (October 24-27)

Exhibitor Registration is open. Booth spaces are more than 75% sold out, please book soon!! Register at <http://www.geothermalenergy2010.com/>.

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

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, Bali, Indonesia (April 25–30)

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/st/en.html> and

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

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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, Indonesia (May 23–25)

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

On May 27, the Sustainable Energy Coalition - in cooperation with Members of the U.S. House of Representatives and U.S. Senate Renewable Energy & Energy Efficiency Caucuses - will host the 13th annual Congressional Renewable Energy & Energy Efficiency EXPO + Forum. Its theme will be "Renewable Energy + Energy Efficiency = Green Jobs".

This year's EXPO will bring together nearly fifty businesses, sustainable energy industry trade associations, government agencies, and energy policy research organizations to showcase the status and near-term potential of the cross-section of renewable energy (biofuels/biomass, geothermal, solar, water, wind) and energy efficiency technologies. A morning news conference will feature Members of the U.S. Congress while afternoon speakers will discuss the role sustainable energy technologies can play in meeting America's energy needs.

The EXPO is free, open to the public, and no RSVPs are required. For more information or to inquire about exhibiting contact Ken Bossong, Sustainable Energy Coalition, 301-270-6477 x.11, kbossong614@yahoo.com.

Geothermal Energy Weekly

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

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