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GEA Weekly Update July 22, 2009

National News.....	2
Climate Bill Progressing as Senate Committee Holds Hearings.....	2
BLM Receives 15 Noncompetitive Offers on Geothermal Parcels; How to File a Noncompetitive Lease Form	2
Ex-Im Bank Applies Longer Repayment Term to Energy Exports.....	3
Case Studies, Technology, and Incentives to be Featured at Geothermal Heating and Small Power Workshop.....	3
Company News	4
Arrow Resources Development: Geothermal Power Plants Planned for Indonesia	4
Geo Minerals: Subsidiary for Geothermal Assets Formed.....	5
Magma Energy Corp.: Chile Site Shows 140 MW Inferred Geothermal Resource	5
Vulcan Power: Testing Nears Completion on Churchill County Plant	5
Western GeoPower: Approval Gained for Geysers Project Permit.....	5
Renewable Energy and Climate Change News	6
U.S. Energy Use Declined in 2008, LLNL Report Shows	6
G8 Meeting Yields Little Substance on Climate Change.....	6
International Conference Looks at Role of Intellectual Property in Mitigating Climate Change	7
Renewable Electricity Standard Won't Create Jobs Unless Strengthened, AWEA Tells Congress	7
State News	8
ARRA to Fund \$162m for State Energy Programs.....	8
Montana: New Interest in Geothermal Energy from Governor, Forest Service.....	8
Washington: PNNL System Applies New Liquid to EGS Prototype.....	9
International News.....	9
Iceland: Yoko Ono Visits Blue Lagoon	9
Japan: Government Aims to Triple Geothermal Power Generation by 2030	9
Papua New Guinea: Lihir Island Geothermal Plant to Add 40 MW	10
Philippines: RE Act Appeals to Chevron Geothermal Philippines Holdings	10
Notices	10
Closing This Week	10
Other Notices Available on GEA Web Site	10
Employment Opportunities	11
Employment Opportunities Available on GEA Web Site	11
Requests for Proposals (RFPs).....	11
New RFPs	11
Other RFPs Available on GEA Web Site.....	11
Upcoming Events	12
Happening This Week.....	12
New This Week.....	12
GEA Events.....	13
Other Upcoming Events Available on GEA Web Site.....	14
Geothermal Energy Expo Sponsorship Opportunities	14

National News

Climate Bill Progressing as Senate Committee Holds Hearings

Work continues on the Climate legislation with the Senate Environment and Public Works Committee, Chaired by Senator Barbara Boxer (D-CA), laying the ground work with a series of hearings leading towards legislation in the coming months. "Today's hearing is the kickoff of a historic Senate effort to pass legislation that will reduce our dependence on foreign oil, create millions of clean energy jobs, and protect our children from pollution," Senator Boxer said in her opening statement July 7th. She was optimistic about action on climate legislation, saying "I believe that this Committee, when the votes are eventually taken on our bill, will reflect our President's attitude, which is "Yes, we can, and yes, we will.""

Climate legislation is one of the Obama Administration's top goals. The Waxman-Markey bill was passed by the House of Representatives last month and some worry that the bill has lost some momentum as the Administration and Congress have turned their focus to health care reform legislation. Both have been moved back and forth at the top of the congressional schedule this year.

Meanwhile, other Committees have also been exercising their jurisdiction over climate legislation, making the outlook more complicated. Boxer told reporters she is happy to see more committees involved in the climate bill this year. Her committee is working alongside other powerful panels: Agriculture, Commerce, Energy and Natural Resources, Finance, and Foreign Relations.

Senate Inhofe (R-OK), Ranking Republican on the Environment and Public Works Committee was more skeptical. He stated in his opening statement July 7th: "Despite a 76-seat majority in the House, Speaker Pelosi passed her cap-and-trade energy tax bill on June 26 by just one vote over the majority required, 219-212. Against this backdrop, the Senate will begin the process of considering yet another cap-and-trade bill. I would note that the Senate has voted on cap-and-trade three times: in 2003, in 2005, and in 2008. In each and every instance, we defeated it. Now, Madame Chairman, here we go again."

For statements from Senators and witness at the hearings, go to:
<http://epw.senate.gov/public/index.cfm?FuseAction=Home.Home>.

See also: <http://www.nytimes.com/cwire/2009/07/22/22climatewire-battle-over-health-care-leaves-blood-in-the-61585.html>, *EESI Climate Change News*, and <http://www.reuters.com/article/businessNews/idUSTRE56K5YY20090721>.

BLM Receives 15 Noncompetitive Offers on Geothermal Parcels; How to File a Noncompetitive Lease Form

Lands that did not receive a bid at the BLM competitive geothermal lease sale on July 14 will continue to be available for noncompetitive leasing for a 2-year period, according to the Bureau of Land Management.

The day after the competitive lease sale, BLM received 15 noncompetitive offers.

In the table below, BLM provided information and statistics on the Day-After Noncompetitive Leasing for Nevada:

Offers filed	15
Offers rejected	1
Offers returned for correction	0
Parcels available for NCO	26
Parcels receiving offers	12
% parcels receiving offers	46.15%

Parcels receiving multiple offers	2
Acres available for NCO	91987
Acres receiving offers	39007
% acres receiving offers	42.40%
Total rental collected (all parcels)	\$49,223.00
Rental fees retained	\$39,010.00
Filing fees collected	\$5,475.00
Total fees retained	\$54,333.00
Total deposit	\$44,120.00
Refund	\$10,213.00

To file a noncompetitive offer after the sale:

Submit two executed copies of the applicable noncompetitive lease form, a \$365 processing fee, and advance rental of \$1 per acre to the Oregon State Office BLM. At least one form must have an original signature and the office will only accept exact copies of the form on one 2-sided page. BLM will offer the lease to the first qualified applicant, according to a notice on their Web site.

For 30 days after the competitive geothermal lease sale, noncompetitive applications will be accepted only for parcels as configured in the Notice of Competitive Geothermal Lease Sale. After that time, noncompetitive applications may be filed for any available lands covered by the competitive lease sale, not to exceed 5,120 acres per lease, according to BLM.

During the 30-day period, BLM will only accept a withdrawal of the entire application, but beyond that noncompetitive lease application may be withdrawn in whole or in part at any time before BLM issues the lease.

See http://www.blm.gov/or/energy/geothermal/files/notice_121908.pdf and <http://www.blm.gov/or/energy/geothermal/index.php>.

Ex-Im Bank Applies Longer Repayment Term to Energy Exports

U.S. exports of renewable energy, water, and nuclear power projects are now eligible for a longer repayment term, extended from 15 to 18 years, according to the Export-Import Bank of the U.S. This applies to Ex-Im Bank's direct-loan or loan-guarantee financing, and a revised fixed-interest rate regime applies.

The changes apply to the following types of water projects: treatment and distribution of drinking water for human consumption, collection and treatment of residential and industrial wastewater, water recycling, and treatment of water-related sludge.

This also applies to the following renewable energy projects: wind, solar photovoltaic, solar thermal, hydroelectric, geothermal, ocean thermal, tidal and tidal-stream power, wave power, and bio-energy.

See <http://www.exim.gov/pressrelease.cfm/7B3707AB-BF2C-81FA-C89F67830BE595F6/> and http://www.desalination.biz/news/news_story.asp?id=4961.

Case Studies, Technology, and Incentives to be Featured at Geothermal Heating and Small Power Workshop

Klamath Falls, Oregon -- On August 12 the Geothermal Energy Association and the Oregon Institute of Technology's Geo-Heat Center will be holding a workshop focusing on geothermal direct heat uses and

small power production. "Recent technology developments, new state and federal tax incentives, and growing public concern about climate change are all working to promote geothermal energy, and direct heating and small power are growth areas," according to Karl Gawell, GEA's Executive Director.

The GEA-OIT workshop will bring together -- for the first time ever -- those interested in using geothermal energy for distributed power generation and direct heating purposes from across the West. Pratt & Whitney Power Systems, maker of the PureCycle® Power System, is the Gold Level Sponsor of the event, and the Oregon Department of Energy is a cosponsor.

The workshop will feature presentations on successful geothermal uses for school heating, district heating, fish farming, greenhouses, spas/resorts, and small power production - including generation utilizing hot water from oil and gas wells. In addition, Dr. John Lund, Director, GeoHeat Center, Oregon Institute of Technology, will make a presentations on the OIT heating and power systems and the total US potential for geothermal heating and small power production.

Among the leading power equipment suppliers, drilling and exploration firms, and engineering and construction companies on the agenda are Pratt and Whitney Power Systems, Turbine Air Systems, SNC-Lavalin , and ThermaSource. Representative from the US Department of Energy, Oregon Department of Energy, and Oregon Environmental Trust, the US Bureau of Land Management and the Geothermal Energy Association will discuss programs that can help those interested in utilizing geothermal energy, including new federal and state financial incentives.

OIT's Klamath Falls campus is a world-class example of both geothermal direct use heating and small power production. OIT expects its new geothermal power plant will be up and running by the time of the workshop. Together with its geothermal heating systems, OIT's campus will be a practical showcase for those attending the event.

While geothermal resources have been used for heating purposes in the West for over 100 years, small power technology utilizing geothermal resources is a new trend. Alaska, Florida, New Mexico, Oregon and Wyoming have each seen or will soon see geothermal power produced for the first time. In each of these cases the power is being used locally for power generation for a resort, commercial business, or similar site.

Registration for the August 12 Workshop is \$195 for the general public and \$95 for GEA Members, non-profit groups, government employees. Registration includes workshop materials, snacks, and lunch. OIT has organized a field trip for the following day, and registration for the August 13 Field Trip is an additional \$75.

For more information, or to register for the workshop or field trip, visit: www.geo-energy.org.

Company News

Arrow Resources Development: Geothermal Power Plants Planned for Indonesia

Press Release—July 21, [Arrow to Build Geothermal Power Plants](#)

New York, NY -- Arrow Resources Development, Inc. (OTC.BB:ARWD - News) (herein "Arrow") has entered into a Memorandum of Understanding with Four Crystal Funding, Inc. (herein "Four Crystal") and GTherm Inc. (herein "GTherm") for Four Crystal to invest \$10,000,000 at a price of \$1.00 per share of Arrow common stock. Arrow has further agreed to have geothermal power plants, employing the GTherm technology, built and operated on its properties in Indonesia. GTherm has agreed to build and maintain up to two hundred 50 mega watt (MW) geo-thermal power plants using the GTherm technology. GTherm, Inc. has developed an advanced, patent-pending Single Well Engineered Geothermal System(TM) ("SWEGS") that eliminates many of the limiting factors present with current water-based Enhanced Geothermal

Systems. The first geothermal Plant will be in Kendari, Southeast Sulawesi for the use of PT. Tiga Daun Nusantara, Arrow's joint venture partner, on the initial plantation site. GTherm technology uses proven components developed and tested at the US Department of Energy and by United Technologies Corporation and is cost competitive with conventional fossil fuel electric power generation technologies.

For more, see www.arrowrd.com.

Geo Minerals: Subsidiary for Geothermal Assets Formed

Press Release—July 22, [Geo Announces Geothermal Plans](#)

Vancouver, BC -- GEO MINERALS LTD. (TSX VENTURE:GM) is pleased to announce it has formed Juturna Geothermal Inc., a wholly owned subsidiary, which is designed to be a holding company for a suite of geothermal assets/prospects the Company has arranged to acquire.

Successful exploration for geothermal resources requires expertise in hydrothermal processes, structural geology, and geochemistry. To this end, Geo is pleased to announce that it is expanding its geological team to advance this corporate opportunity, by welcoming Denis L. Norton (Ph.D.) and Danny B. Sims (Ph.D.) to the advisory board.

For more, see www.geominerals.ca.

Magma Energy Corp.: Chile Site Shows 140 MW Inferred Geothermal Resource

Press Release—July 22, [Initial Drilling at Maule Property, Chile Indicates Inferred Geothermal Resource of 140 Megawatts](#)

Vancouver, BC -- Magma Energy Corp. (TSX:MXV) ("Magma") announces the successful completion of its first slim hole that tested the geothermal reservoir at its Maule property, 300 km south of Santiago in Chile. Temperatures exceeded 200 degrees Celsius at a depth of 650 meters below surface. Drilling of the US\$1.6 million slim hole followed a US\$400,000 magneto-telluric geophysical program carried out in March 2009 which outlined a large anomaly in the vicinity of surface fumaroles sampled by Magma earlier in the year. Gas and steam condensate samples from these fumaroles were analyzed and indicate that deep reservoir temperatures may exceed 290 degrees Celsius.

For more, see <http://www.marketwire.com/press-release/Magma-Energy-Corp-TSX-MXY-1020382.html>.

Vulcan Power: Testing Nears Completion on Churchill County Plant

Vulcan Power Co. is testing the flow and temperature of geothermal resources in Churchill County and will decide whether to develop a power plant within four to six weeks, according to *Lahontan Valley News*. "The probability is greater than 50% that we will go ahead," Bob Warburton, acting chief executive officer, told press. Next steps will include securing financing and government permits, expected to take nine to 12 months. Construction of a power plant would employ about 200 people, Warburton said.

See <http://www.lahontanvalleynews.com/article/20090718/NEWS/907189987/1055&ParentProfile=1045>.

Western GeoPower: Approval Gained for Geysers Project Permit

Press Release—July 22, [Western GeoPower Announces Approval of Environmental Document and Conditional Use Permit](#)

Vancouver, Canada -- TSX Venture Exchange Trading Symbol: WGP - Western GeoPower Corp., a renewable energy company, today announced the achievement of two major regulatory milestones for the

Western GeoPower Unit 1 project at The Geysers geothermal field in California, with the receipt of approvals for both the Environmental Document and the Conditional Use Permit.

The unanimous approvals were granted during a public hearing by the Sonoma County Board of Zoning Adjustments for the construction and development of a 38.5 Megawatt (gross) geothermal power plant, wellfield and steam gathering system at the Company's leasehold at The Geysers. Sonoma County is the Lead Agency under the California Environmental Quality Act for projects of under 50 Megawatts capacity being developed within the county.

"This is the first geothermal power plant to be permitted at The Geysers Geothermal Field in 21 years," said Sigrid Swedenborg, Sonoma County Land Use Planner for the project. "It is an exciting project for Sonoma County and meets our General Plan policies to promote renewable energy generation systems."

The power will be purchased, pursuant to a previously announced power purchase agreement, by the Northern California Power Agency, a non-profit joint powers agency that provides electricity generated from environmentally responsible sources to its member communities in Northern and Central California. The power will also help California reach the Renewable Portfolio Standard of supplying 20% of the State's power from renewable energy sources by 2010.

See <http://www.tradingmarkets.com/.site/news/Stock%20News/2435429/>.

Renewable Energy and Climate Change News

U.S. Energy Use Declined in 2008, LLNL Report Shows

A report on U.S. energy use released by the Lawrence Livermore National Laboratory showed a decline in 2008 compared to 2007. The U.S. used more solar, nuclear, biomass, and wind energy and slightly increased natural gas consumption, decreasing use of coal and petroleum. Geothermal energy use remained the same.

"Some of the year-to-year changes in supply and consumption can be traced to factors such as the economy and energy policy," A.J. Simon, an LLNL energy systems analyst who develops the energy flow charts using data provided by the Department of Energy's Energy Information Administration, told press.

Energy use in the industrial and transportation sectors declined by 1.17 and 0.9 99.2 quadrillion BTUs (quads), respectively; commercial and residential numbers went up slightly.

The U.S. consumed 99.2 quads total, including 42.15 quads of energy services. Energy services are "things that make our lives better," Simon said. "That's the energy that makes your car move and that comes out of your light bulb." The remainder "is simply rejected," he explained. For example, some rejected energy shows up as waste heat from power plants . . . More efficient power plants, automobiles and even light bulbs really do reject less energy while providing the same energy services."

See <http://www.livescience.com/environment/090720-energy-use.html> and <http://www.sciencedaily.com/releases/2009/07/090720134556.htm>.

G8 Meeting Yields Little Substance on Climate Change

From Climate Change Business Journal Weekly News:

The recent summit meeting of the Group of Eight (G8) nations in L'Aquila, Italy, was the occasion for much discussion of climate change but very little in the way of agreement, according to reporters covering the meeting. The G8 nations—the United States, Japan, Germany, France, Great Britain, Italy, Canada, and Russia—agreed to cut greenhouse gas (GHG) emissions by 80% by 2050, but the announcement of this

agreement “left considerable room for interpretation as to how the targets should be calculated,” James Murray of BusinessGreen reported on July 9. For example, the G8 negotiators could not agree on whether to use 2005 as a baseline for the reductions, as the United States and Japan have proposed, or 1990 as the baseline. Nonetheless, U.K. Prime Minister Gordon Brown hailed the agreement as a “historic” breakthrough.

The summit then followed on July 9 with a meeting of the 17-nation Major Economies Forum (MEF), which includes the G8 nations plus other major economies such as China, India, and Brazil, and there the climate negotiations reached impasse. “The rich industrial nations wouldn’t promise to cut back their emissions in the near term,” Richard Harris of National Public Radio (NPR) reported on July 10, and “China, India and the rest of the developing world wouldn’t commit to cutting their emissions, ever.” China re-iterated its long-standing argument to the effect that the United States and the other industrialized nations have historically emitted most of the GHGs in the atmosphere and thus should “act first and most aggressively,” Harris reported.

Eileen Claussen, president of the Pew Center on Global Climate Change, told Harris that China’s position on climate change is “totally unrealistic,” adding that “it is not just the Chinese, it is the developing countries in general.” This position will create a backlash, prompting people to think that China is not serious about climate change, Claussen said. China is in fact very serious about climate change, Claussen hastened to add, as government officials increasingly recognize the risks to the Chinese economy and standard of living posed by rising temperatures. Bringing its people out of poverty means exploiting the nation’s vast coal resources and other cheap fossil fuels, however, at least for the near term, Claussen and other climate change policy experts noted.

International Conference Looks at Role of Intellectual Property in Mitigating Climate Change

From EESI Climate Change News:

On July 13, the World Intellectual Property Organization (WIPO) hosted an international conference to discuss the role of intellectual property in promoting the development and diffusion of green technologies to combat climate change. UK Minister for Higher Education and Intellectual Property David Lammy said that technology transfer is key to climate change negotiations, and other leaders agreed that intellectual property should be a catalyst, not an obstacle, to solving climate change. WIPO Director General Francis Gurry said that intellectual property rights spur innovation by offering incentives, but that there are ways to transfer and disseminate technologies. Some officials expressed concern that patents would be a barrier to technology transfer from rich to poor countries. “The key message is that a fair agreement on technology transfer is crucial to seal the deal in Copenhagen,” said Haraldo de Oliveira Machado Filho, a senior advisor in Brazil’s commission on climate change. Chinese deputy intellectual property commissioner Li Yuguang suggested a joint development fund to allow nations to buy and disseminate major green technologies.

Renewable Electricity Standard Won't Create Jobs Unless Strengthened, AWEA Tells Congress

Press Release—July 16, AWEA

Washington, D.C. -- This morning, members of America’s wind power industry laid out a compelling case to strengthen the proposed Congressional renewable electricity standard (RES) in order to protect American jobs and maintain America’s leadership status in the increasingly competitive global wind power industry.

Testifying before the Senate Environment and Public Works Committee, G.E. Vice Chair and Energy Infrastructure President and CEO John Krenicki called for any federal RES passed this year to be significantly stronger than proposals now on the table.

Legislation passed by the House and a Senate committee last month, Krenicki said, fall far short of what is needed and would have “disastrous” consequences for the domestic wind industry in the near term. Current proposals, due to carve-outs in definitions and calculations of the standard, do not drive new renewable energy deployment in the near term.

“While the U.S. struggles to determine the future of clean energy, other countries around the world are setting aggressive near-term and long-term standards and incentives to create large domestic markets for renewable energy,” Krenicki said. “Both the RES passed by the House of Representatives and the RES approved by the Senate Energy and Natural Resources Committee last month are far too weak to drive growth. The current RES proposals for 2012 – anywhere from 3 to 6 percent of total U.S. electricity generation – are essentially equal to or below the status quo.”

“Massive new investments in manufacturing will not be made in the U.S. today based on the hope of a strong carbon price signal 10 years from now,” explained Krenicki. “It would take a 12% renewable electricity standard by 2012, with reasonable percentages to be satisfied by energy efficiency measures, to enable U.S. wind deployments to continue on the current growth trajectory,” Krenicki said. “Such a standard would also help drive dollars to small companies and developers waiting for stimulus checks to begin rolling out, and help sustain a domestic industry that cannot wait for longer term carbon legislation to come into effect.”

The Senate is currently holding hearings on climate and energy legislation and is expected to mark up legislation in September. The House passed its version of the bill, the American Clean Energy and Security Act, late last month. Leading voices in the wind industry echoed Krenicki’s call for more robust U.S. policy to support renewable energy.

See http://www.awea.org/newsroom/releases/Energy_Legislation_Needs_Stronger_071609.html.

State News

ARRA to Fund \$162m for State Energy Programs

Press Release—July 20, [Obama Administration Awards More than \\$162 Million for State Energy Programs in Seven States and Territories](#)

Washington, DC – U.S. Department of Energy Secretary Steven Chu today announced more than \$162 million in funding from the American Recovery and Reinvestment Act to support energy efficiency and renewable energy projects in Colorado, Delaware, Indiana, Louisiana, Massachusetts, Pennsylvania, and Puerto Rico. Under DOE’s State Energy Program, states and territories have proposed statewide plans that prioritize energy savings, create or retain jobs, increase the use of renewable energy, and reduce greenhouse gas emissions.

For more, see <http://www.energy.gov/news2009/7668.htm>.

Montana: New Interest in Geothermal Energy from Governor, Forest Service

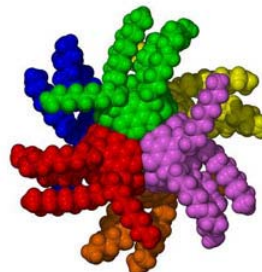
An article found at Missoulian.com provides insight into geothermal power potential in Montana. Gov. Brian Schweitzer broached the topic at the Pacific Northwest Economic Region conference in Boise, Idaho, according to the article. And the Forest Service Region 1 put geothermal leasing on its latest Schedule of Proposed Actions mailing, meaning the agency is on alert to do National Environmental Policy Act reviews of any lease requests, though there have been none.

Geothermal direct use applications, however, are currently used in Montana, and BLM geothermal energy expert John Bown told press a few oil wells in eastern Montana use hot water byproducts to generate enough electricity to run the pumping rigs.

See <http://www.missoulian.com/articles/2009/07/21/news/local/znews05.txt>.

Washington: PNNL System Applies New Liquid to EGS Prototype

Scientists at the Department of Energy's Pacific Northwest National Laboratory (PNNL) are working on an enhanced geothermal system, according to their press release. PNNL is receiving \$1.2 million through the DOE Geothermal Technologies Program as one of 21 Energy Efficiency and Renewable Energy grants.



"By the end of the calendar year, we plan to have a functioning bench-top prototype generating electricity," PNNL Laboratory Fellow Pete McGrail told press. "If successful, enhanced geothermal systems like this could become an important energy source." The conversion system will use a new liquid developed by PNNL researchers, called biphasic fluid, which contains rapid expansion and contraction capabilities.

Work with cage-like nanostructures trapping carbon dioxide led to the discovery that the heat-storing capacity of alkanes could be increased by a factor of 20 and applied to geothermal technology. The nanostructured metal-organic heat carriers, or MOHCs, boost the power generation capacity to near that of a conventional steam cycle. (see image, MOHC molecule)

An article in *Scientific American* said the technology may lessen safety concerns over seismicity. "The hope here," McGrail says, "is if you are able to make it more economic to use shallower systems...then the chances of intersecting an active fault that can transmit an earthquake diminishes," according to McGrail.

See <http://www.pnl.gov/news/release.asp?id=383> and <http://www.scientificamerican.com/article.cfm?id=nano-traps-geothermal-power>. See also <http://www.popsci.com/scitech/article/2009-07/nanotech-could-boost-geothermal-power>.

International News

Iceland: Yoko Ono Visits Blue Lagoon

Details and a photo are available at <http://www.bluelagoon.com/news/60/default.aspx>.

Japan: Government Aims to Triple Geothermal Power Generation by 2030

The Japanese government has set targets to double the nation's electricity-generating capacity by 2020 and to triple or quadruple geothermal energy production by 2030, according to [energycurrent.com](http://www.energycurrent.com). About 45,000 households have applied for installation subsidies introduced in January to install solar panels. The Economy, Trade and Industry Ministry plans to raise its subsidy rate for constructing geothermal power stations from the current 20% to 33% in 2010.

See <http://www.energycurrent.com/index.php?id=3&storyid=19477>.

Papua New Guinea: Lihir Island Geothermal Plant to Add 40 MW

The Energy Development Corporation (EDC) will expand a 56-MW geothermal power plant in Lihir Island by 40 MW, according to abs-cbnNEWS.com. The \$15m contract with Lihir Gold Limited, a Papua New Guinea firm, involves drilling 7 new wells. LGL, a leading gold producer in the Asia Pacific region, has expanded its gold output and thus needs to expand the geothermal power plant capacity.

See <http://www.abs-cbnnews.com/business/07/21/09/edc-bags-15-m-drilling-deal-papua-new-guinea>.

Philippines: RE Act Attractive to Chevron Geothermal Philippines

Chevron Geothermal Philippines Holdings Inc. (CGPHI) will consider geothermal power facilities in the Philippines due to increased incentives in the Renewable Energy Act of 2008, according to abc-cbnnews.com.

"Before the enactment of the RE Act, we were not looking into other areas probably for the last 20 years. We felt then that the fiscal environment is not attractive to develop a greenfield project. But with the RE Act, we are actually very interested in evaluating new prospects given its good fiscal incentives," CGPHI President and General Manager Antonio Yee told press.

The RE Act aims to increase development of geothermal, biomass, wind, solar, and hydro. The DOE expects to double renewable energy power production to 9,000 MW by 2013.

See <http://www.abs-cbnnews.com/07/15/09/chevron-may-put-geothermal-plants-rp>.

Notices

Closing This Week

- CEC Cost Share Grant Solicitation, American Recovery and Reinvestment Act (July 24 & 29)

Two of the four federal solicitations under the California Energy Commission Program Opportunity Notice PON-08-011 have their final deadlines this week. The solicitation is to cost share Energy Commission Public Interest Energy Research (PIER) Program funds with federal funding from the U.S. Dept. of Energy under the American Recovery and Reinvestment Act of 2009:

- Enhanced Geothermal Systems Component Research and Development/Analysis, DE-FOA-0000075; Jul. 7, 2009 (pre-applications); Jul. 24, 2009 (final deadline).
- Geothermal Technologies Program, DE-FOA-0000109; Jul. 10, 2009 (pre-applications); Jul. 29, 2009 (final deadline).

The official announcement and description of this opportunity may be found on the funding agency's Web site: <http://www.energy.ca.gov/contracts/pier.html#PON-08-011>.

Other Notices Available on GEA Web Site

Notices from past weeks are now available on GEA's Web site:

- SMU Geothermal Laboratory Offers Networking for Geothermal Projects
- DOE Geothermal Funding Opportunities (July 30)

- CEC Cost Share Grant Solicitation, American Recovery and Reinvestment Act (August 6)
- TANC Transmission Project EIR/EIS Public Scoping Comment Period Extended (July 30)
- USDA Announces REAP Grant/Loan Guarantee Funding (July 31)
- Airborne Hyperspectral Surveys of Geothermal Areas, Nevada (August 1–4)
- Call for Papers, Renewable Energy World North America (August 7)
- Labor Department Offers \$500 Million for Clean Energy Job Training (August–October)
- EPA Extends Comment Period for Renewable Fuel Standard Program (September 25)
- Resource Development Opportunity, Contact, Nevada
- Hannon Armstrong Announces Advisory Services for DOE Loan Guarantees

For details, see <http://geo-energy.org/publications/updates.asp#Notices>.

Employment Opportunities

Employment Opportunities Available on GEA Web Site

Open Employment Opportunities are now available on GEA's Web site:

- Vice President of Engineering, Ram Power, Inc.
- Drilling Program Manager, Major Geothermal Power Company in CA
- Senior Director, Business Development, Major Geothermal Company
- Geothermal Project Supervisor, Central American Bank for Economic Integration, Costa Rica
- Research Associate II, SMU Geothermal Laboratory

For details, see <http://geo-energy.org/publications/updates.asp#Employment>.

Requests for Proposals (RFPs)

New RFPs

- RFP for REC Deliveries (August 14)

You are invited to bid: Navigant Consulting, Inc. is conducting an RFP on behalf of FirstEnergy. The RFP solicits proposals to meet FirstEnergy's Ohio Utilities' requirements for renewables under Ohio Senate Bill 221 (SB 221). Proposals will be accepted for REC deliveries in 2009 and/or 2010 and/or 2011.

The RFP is for the purchase of RECs only; the RFP is not for the purchase of energy nor capacity. RECs may be from Ohio or contiguous states per SB 221. RECs may be Solar RECs or Other Renewable RECs. Key dates: Information Webinar - July 24, 2009 (see RFP website for details); Credit application due - July 27, 2009; Proposal due - August 14, 2009.

All questions should be directed through the RFP website at www.firstenergyrenewable.com/2009OhioRFP.

Open RFPs Available on GEA Web Site

Requests for Proposals listed in past weeks are now available on GEA's Web site:

- RFP for State Energy Program, DOE (Due Dates Vary)
- RFP for Contribution of Cost Share for Transportation Related Recovery Act RFPs, CEC (Due Dates Vary)

- RFP for Technology and National Research Priorities, Recovery Act (Ongoing)
- RFP for Renewables and Energy Efficiency Improvements, DOA (July 31)
- RFP for Renewable Energy Feasibility Studies, DOA (July 31)
- RFP for Ground Source Heat Pumps, Recovery Act, DOE (August 6)
- RFP for Carbon Capture and Sequestration, Recovery Act (August 7)
- RFP for Electric Energy Proposals, Southern California Edison (August 21)
- RFP for Smart Grid Demonstrations, DOE, American Recovery and Reinvestment Act (August 26)
- RFP for Environmental Implications of Emerging Technologies, NSF (September 15)
- RFP for Energy for Sustainability, National Science Foundation (September 15)
- RFP for Thermal Transport Processes, National Science Foundation (September 15)
- RFP for National Lab Partnerships for Energy Research, DOE (November 9)
- RFP for Renewable Energy Resources, Los Angeles (March 11, 2010)
- RFP for Smart Grid Investments, DOE, American Recovery and Reinvestment Act (March 31, 2010)

For details, see <http://geo-energy.org/publications/updates.asp#RFPs>.

Upcoming Events

Happening This Week

- Indonesian Clean Energy Policy Mission, U.S. Department of Commerce, July 27–29 (Jakarta, Indonesia)

The International Trade Administration of the U.S. Department of Commerce is hosting a clean energy policy mission to Indonesia with U.S. private sector participation, July 27–29 in Jakarta, Indonesia. Mission participants will join a delegation of U.S. Government officials for meetings with key Indonesian Ministries on policy challenges facing the development of Indonesia's considerable renewable energy resources.

Indonesia has the potential to produce an estimated 27,000 MW of electricity from geothermal sources. The Indonesian government is pushing energy expansion in support of 20,000 MW of new energy from renewable sources, with 4600 MW set aside for geothermal development.

Contact: Ryan Mulholland, International Trade Specialist at the U.S. Department of Commerce, Ryan.Mulholland@mail.doc.gov or (202) 482-4693.

New This Week

- CanGEA Workshop, Investment Conference, and Networking Reception, September 9-10, Toronto, Canada

The Canadian Geothermal Energy Association is hosting a Geothermal Energy Workshop, Investment Conference and Networking Reception in Toronto, Ontario on September 9 and 10, 2009. On September 9, CanGEA will lead a workshop on several important topics in the Canadian geothermal industry, which include the TSX geothermal reporting code, the impact of CO2 cap-and-trade on the geothermal industry, and presentations by several Canadian geothermal companies. Registration for September 9 is open to the public and a limited number of spots are available. On September 10, Wellington West Capital Markets will direct a conference on investment opportunities in the geothermal industry. Registration for the September 10 session will be available by invite.

More information on this event can be found at www.cangea.ca or by email at info@cangea.ca.

- U.S. Marine Corps Energy Summit 2009, August 13, Washington, DC

The U.S. Marine Corps Energy Summit 2009, "Lightening the Load on Bases and Battlefields," will be held 13 August 2009 at the Hyatt Regency Hotel, Capitol Hill, Washington, DC. This Summit will be an Opportunity to hear from the top levels of the Marine Corps, Navy Department, and National Security Advisor on how we understand our energy challenges and the direction we will take in meeting those challenges. Invitees included members of Congress, press, and industry who will have a role in increasing general awareness and assisting or partnering with the Marine Corps in that pursuit.

Keynote Speakers: Commandant of the Marine Corps, General James T. Conway; National Security Advisor, General James L. Jones, Jr – USMC Retired (invited); Secretary of the Navy, The Honorable Raymond Edwin "Ray" Mabus

See www.usmc.mil

GEA Events

- GEA: Direct Use/Small Power Finance Workshop, Oregon Institute of Technology (OIT), August 12-13 (Klamath Falls, OR)

Klamath Falls, Oregon will be the site of a workshop intended to promote two exciting growth areas for geothermal energy in the U.S. On August 12 the Geothermal Energy Association and the Oregon Institute of Technology's Geo-Heat Center will be holding a workshop focusing on direct heat and small power utilization. Pratt & Whitney Power Systems, maker of the PureCycle® Power System, is the Gold Level Sponsor of the event and the Oregon Department of Energy is a co-sponsor.

"This workshop will bring together -- for the first time ever -- those interested in using geothermal energy for distributed generation and direct heating purposes across the West," noted Karl Gawell, Executive Director of GEA. "New technology developments, state and federal laws and incentives, and growing concern about climate change are driving a strong growth trend in both areas," he added.

In the last few years, small power technology has been leading geothermal power production into several new states. Alaska, Florida, New Mexico, Oregon and Wyoming have each seen or will soon see geothermal power produced for the first time. In each of these cases the power is being used locally for distributed generation, and the geothermal power plants have capacities of less than one megawatt. In many states, special incentives are being offered for small, renewable power generation less than 10 MW.

OIT's Klamath Falls campus is a world-class example of both geothermal direct use heating and small power production. "Our 280 kW Pratt & Whitney power plant will be up and running by the time of the workshop," noted John Lund, Director of the OIT Geo-Heat Center. "This will be the first geothermal power generation in Oregon, and together with our geothermal heating systems OIT's campus will be a practical showcase for those interested in these technologies," he said.

The GEA-OIT Workshop is planned for August 12 in Klamath Falls, in addition OIT has organized a field trip for the following day. Registration for the August 12 Workshop is \$195 for the general public and \$95 for GEA Members, non-profit groups, government employees. Registration includes workshop materials, snacks, and lunch. Registration for the August 13 Field Trip is an additional \$75.

The Preliminary Agendas for the Workshop and Field Trip follows. For more information, or to register for the workshop or field trip, visit:

http://www.geo-energy.org/workshops/GEO_Small_Power_Direct_Use_Workshop_Aug12.asp.

- GEA: Geothermal Energy Expo/GRC Annual Meeting, October 4-7 (Reno, NV)

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 Geothermal Energy Expo 2009 will be held at the Peppermill, Reno's premiere hotel and casino in Reno, Nevada. 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.

If you are interested in exhibiting at the Geothermal Energy Expo please act soon! Only 5 booth spaces remain.

For more information about the Geothermal Energy Expo, visit: <http://www.geo-energy.org>.

Other Upcoming Events Available on GEA Web Site

Upcoming Events listed in past weeks are now available on GEA's Web site.

- Renewable Energy Indonesia 2009 Trade Show, October 14–17 (Jakarta, Indonesia)
- SMU Geothermal Conference, November 3–4 (Dallas, TX)
- XVII Annual Congress and Annual Assembly, Mexican Geothermal Association, November 13 (Mexico)

For details, see <http://geo-energy.org/publications/updates.asp#Events>.

Geothermal Energy Expo Sponsorship Opportunities

Platinum Sponsor: \$20,000 (Unlimited)

SOLD: HALLIBURTON

Benefits:

- Ten minute speaking opportunity at Opening Reception, Sunday evening, October 4, 2009
- Ten minute presentation opportunity in Expo Hall
- Prominent display of name/logo on Expo Guide
- Logo on Geothermal Energy 2009 entry welcome sign, GEA website
- Literature of choice included in delegate bags

Gold Sponsor: \$10,000 (Unlimited)

Benefits:

- Ten minute speaking opportunity during Opening Reception, Sunday evening, October 4, 2009
- Prominent display of name/logo on Expo Guide
- Logo on Geothermal Energy 2009 entry welcome sign, GEA websites
- Literature of choice included in delegate bags

Silver Sponsor: \$5,000 (Unlimited)

SOLD: STOEL RIVES, LLP, GEOTEK ENERGY, LLC, SHAW GROUP, GEOTHERMAL DEVELOPMENT ASSOCIATES

Benefits:

- Ten minute speaking opportunity in Expo Hall
- Name and logo on Expo Guide

- Logo on Geothermal Energy 2009 entry welcome sign, GEA websites
- Literature of choice included in delegate bags

Bronze Sponsor: \$3,500 (Unlimited)

SOLD: ISLANDSBANKI, VULCAN POWER COMPANY

Benefits:

- Name and logo on Expo Guide
- Logo on Geothermal Energy 2009 entry welcome sign, GEA websites

Special Item Sponsorships

Poker tournament - \$10,000 (Exclusive)

Benefits:

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

Webcast from the Geothermal Energy Expo 2009 - \$5,000 (Exclusive)

Benefits:

- Webcast has the potential of reaching up to 1000+ participants
- Company logo as screensaver during Webcast showing sponsorship
- 10 minute company presentation opportunity during Webcast
- Recognition as Webcast sponsor on GEA Website and signage in Exhibition Hall

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

SOLD: GEOTHERMAL RESOURCE GROUP

Benefits:

- Area within tradeshow hall has two desktop computers, internet connection, printer for use by attendees
- Offers the opportunity for technical and management professionals from around the world to come together and networking/round tables and chairs
- Company logo on signage of the “Cyber Space”
- Company’s website set to default for all computer screen savers
- Recognition on signage on Exhibition Hall

Bottled Water Sponsor - \$2,500 (Exclusive)

SOLD: TNG ENERGY SERVICES

Benefits:

- Sponsor logo placement on Geothermal Energy 2009 bottled water
- Recognition on GEA website
- Recognition on signage on Exhibition Hall

Expo Aisle Signage Sponsor - \$1,000 (Limit 8)

Benefits:

- Sponsor logo placement on Geothermal Energy 2009 Aisle Banner
- Recognition on GEA website
- Recognition on signage in Expo Hall

Lunches & Breaks

Expo Luncheon Sponsor, Monday - \$18,000 (Exclusive)

Benefits:

- Sponsor logo on Luncheon tickets
- Signage on buffet tables
- Recognition on signage within Exhibition Hall
- Recognition on GEA website

Expo Luncheon Sponsor, Tuesday - \$18,000 (Exclusive)

Benefits:

- Sponsor logo on Luncheon tickets
- Signage on buffet tables
- Recognition on signage within Exhibition Hall
- Recognition on GEA website

Conference/Expo Afternoon Coffee, Monday - \$8,000 (Exclusive)

Benefits:

- Signage on buffet tables
- Recognition on signage within Exhibition Hall
- Recognition on GEA website

Conference/Expo Afternoon Coffee, Tuesday - \$5,000 (Exclusive)

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Recognition on GEA website

Conference/Expo Morning Coffee, Tuesday - \$3,000 (Exclusive)

Benefits:

- Signage on buffet tables
- Recognition on signage within Exhibition Hall
- Recognition on GEA website

Conference/Expo Morning Coffee, Wednesday - \$3,000 (Exclusive)

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Recognition on GEA website

Variety Items

Expo Delegate Bags - \$10,000 (Exclusive)

SOLD: ORMAT TECHNOLOGIES

Benefits:

- One color sponsor logo placement on Geothermal Energy Expo 2009 bags to be given out to Expo attendees
- Name and logo on Expo Guide
- Recognition on GEA website
- Recognition on signage in Expo Hall

Neck Wallets - \$5,000 (Exclusive)

SOLD: TRANTER, INC.

Benefits:

- One color sponsor logo placement on Geothermal Energy Expo 2009 neck wallets
- Name and logo on Expo Guide
- Recognition on GEA website
- Recognition on signage on Expo Hall



GEA Weekly Update

A newsletter for the geothermal industry written by Leslie Blodgett and Karl Gawell. For more information contact GEA at: 209 Pennsylvania Avenue SE, Washington, D.C. 20003. Phone: 202-454-5261; Fax: 202-454-5265; E-mail: research@geo-energy.org