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National News

President Obama Promotes Clean Energy Incentives in Visit to ElectraTherm

ElectraTherm, a clean energy company in Reno, Nevada, whose Organic Rankine Cycle (ORC) product the Green Machine has been used in geothermal power stations, hosted a town hall meeting with President Obama and 425 audience members on Thursday, April 21. As the [Reno Gazette Journal later declared](#), the visit

“spotlights Reno's growing reputation as a clean energy hub.”



The President emphasized support for companies such as ElectraTherm and applauded a \$982 thousand grant ElectraTherm received from the Department of Energy. “I want to congratulate ElectraTherm for being a fine example of a clean energy company that’s been growing by leaps and bounds over the last few years,” he said. “When you’re talking about waste heat, every business, every industry, is

generating some sort of energy byproduct, some sort of heat; it’s going up in smoke stacks and nobody is using it. And the question is, can we capture that energy and use it in a smart way? That’s what ElectraTherm is all about.”

With budget cuts seemingly the focus point of late in Congressional talks, the President addressed the impact to green energy investment: “We’re going to have to cut spending and ask everyone to share in the responsibility. But we need to make sure we’re also investing in the future. We’re not going to grow the economy by gutting investments in clean energy. America has always been the leader in innovation. Instead of subsidizing yesterday’s energy sources, let’s invest in tomorrow’s energy sources.”



ElectraTherm's CEO John Fox spoke ahead of the President. ElectraTherm's Series 4000 machine was on display for the first time. Courtesy: ElectraTherm

“The visit by the President of the United States is a significant accomplishment for ElectraTherm and we were honored to host the event,” said John Fox, ElectraTherm’s Chief Executive Officer in [a company release](#). “The President spoke to us about maintaining clean energy incentives and promoting and investing in green technology to reduce our nation’s dependence on fossil fuels. We hope that heat to power will be recognized soon as an enormous untapped opportunity to expand renewable energy production in the US. We look forward to increasing America’s renewable energy footprint.”

The president’s choice to speak at a Nevada-born energy-efficient-technology manufacturer was applauded by locals who have worked to make the state one of the top producers of geothermal and other renewable sources. “Whenever the president visits, it gets national and international attention,” Jason Geddes, environmental services administrator for the City of Reno told press. “And when the president comes over to visit a clean energy company that started up in Nevada, that’s great exposure that shows we are beyond just gaming. It helps build our image as an innovative and green community.”

U.S. Department of Commerce and U.S. Department of Energy Join with GEA for Geothermal Energy Technology and International Development Forum

Press Release, April 20 — Geothermal industry leaders from the United States and abroad are set to come to Washington, DC on Wednesday, May 4 for the Geothermal Energy Association (GEA) 2011 Geothermal Energy Technology and International Development Forum at The Ronald Reagan Building and International Trade Center. The event, hosted by GEA with participation by the U.S. Department of Commerce and U.S. Department of Energy, will paint a clear picture of the rapidly growing geothermal markets at home and abroad.

"Geothermal markets continue to grow at a strong pace even as some other technologies have faltered lately," said Karl Gawell, GEA Executive Director and Chairman of the Department of Commerce Renewable Energy and Energy Efficiency Advisory Committee. "The baseload power that geothermal creates safely and renewably 24 hours a day is in increasingly high demand across the world. It's a smart solution to our energy needs and that is being recognized more and more."

Along with The U.S. Department of Commerce, the U.S. Department of Energy and industry partners including Gold Level Sponsor Atlas Copco and conference sponsors Enel Green Power, Pratt and Whitney, GeothermEx, and the Institute of Earth Science and Engineering, the forum will be widely attended with over two hundred industry leaders, foreign diplomats, financiers and government officials expected to participate.

The program will showcase geothermal projects, trends, and governmental policies in the U.S. and around the world, including the geothermal market today, projects under development in the U.S. and internationally, outlook for the future of the geothermal market, jobs and money, new technologies, and federal agency support at home and abroad.

The forum will feature speakers from the U.S. Senate Energy & Natural Resources Committee, Chadbourne & Parke LLP, University of Nevada at Reno, Gradient Resources, US Geothermal, Ormat, Export-Import Bank, USAID, U.S. Trade and Development Agency, and many others.

EPA Names America's Greenest Companies of 2011

This year the Environmental Protection Agency again [named its Green Power Partnership](#), consisting of the corporate organizations that purchase the greatest amount of green power in the country. Intel has held the number one rank for three years in a row and will use over 85% renewable electricity this year. Other companies in the Green Power top 10 include Whole Foods Market, Starbucks, Cisco Systems, Kohl's Department Stores, Staples, and Wal-Mart Stores. "Even in the midst of what was a down economy last year, we continue to see organizations of all shapes and sizes making significant green power commitments," said Blaise Collison, director of the program. "Intel went from 1.4 billion to 2.5 billion kilowatt hours. That's remarkable."

Company News



Magma Energy: Icelandic Pension Funds to Purchase 25% of Subsidiary HS

Orka

[Press Release](#), Vancouver, April 18 -- Magma Energy Corp. (TSX: MXY) announces that its wholly-owned subsidiary, Magma Energy Sweden AB has signed a term sheet to sell a 25% interest in its 98.5%-owned Icelandic geothermal power company HS Orka hf to a group of Icelandic pension funds. The purchase price of ISK 8.06 billion (approximately US \$71.5 million) is approximately equal to Magma's original cost of acquisition. The pension funds will also hold an option until February 10, 2012 to purchase new shares from HS Orka treasury that, if exercised, would increase their stake in HS Orka to 33.4% at a cost of ISK 4.7 billion (approximately US \$41.7 million). Magma has also agreed to provide the pension funds with significant minority shareholder rights to appoint Board members and participate in the major decisions of HS Orka as long as they continue to hold at least a 22.5% interest. The transaction is subject to a number of conditions, including further due diligence, and is expected to close in May.

Ram Power: Nicaragua Project Sees Successful Drilling Completion and Testing

Press Release [\[Full story\]](#) — Reno, NV, April 25 -- Ram Power, Corp. (TSX: RPG) ("Ram Power" or the "Company"), a renewable energy company focused on the development, production and sale of electricity from geothermal energy, is pleased to announce successful drilling completion and testing results of well SJ12-2 at its San Jacinto-Tizate project site near Leon, Nicaragua and at the Orita No. 4 well at its Orita project in Imperial Valley, California.

SJ12-2 Well: The Company completed the initial drilling of well SJ 12-2 in January 2011. Initial flow test results confirmed that well SJ12-2 will be a production well with an estimated capacity of about 4 MW gross. In order to

maximize the potential production from this well, the Company commenced a fork of well SJ12-2 in March 2011 while retaining this initial productive leg of the well. Drilling of the SJ12-2 fork was successfully completed on April 17, 2011 to a depth of 7,248 feet and a 9 5/8 inch slotted liner was set to the total drilled depth. Total lost circulation of drilling fluid was encountered in the well and subsequent injection testing shows excellent permeability with an injectivity index of 30 tonne/hr/bar. This suggests a MW potential of 5-10 MW gross for the newly completed fork leg of the well. The whip-stock used in drilling the second leg has been successfully recovered from the well and currently the well is heating with expected certification in mid-May 2011 of the full MW potential of both legs of the well.

Renewable Energy and Climate Change



Global Clean Energy Investment Fell 34% in Q1

New [global investment in renewable energy dropped in the first quarter](#) to \$31.1 billion, from \$47.1 billion in the fourth quarter of 2010. Bloomberg New Energy Finance attributed the drop to low natural gas prices in the U.S. as well as subsidy cuts in Europe. "The first quarter saw a bit of a hangover from the hectic investment activity seen in the final months of last year as financiers rushed to close deals to meet their internal targets or to catch feed-in tariffs due to expire in countries such as Germany, Italy and the Czech Republic," New Energy Finance Chief Executive Officer Michael Liebreich said. The global investment in renewable power was the lowest since the first quarter of 2009 (\$20.5 billion).

Solar Grew Faster Than Any Other US Industry in 2010

The [solar energy industry is the fastest growing industry in America](#), according to research by the Solar Energy Industries Association (SEIA) and GTM. The "2010 U.S. Solar Market Insight: Year in Review" shows that based on sales of installed solar, the industry experienced growth of 67% in 2010. At the PV America Conference 2011 this month, CEO Rhone Resch said: "The solar energy industry is the fastest growing industry in America. We are growing faster than wind energy, faster than telecommunications, and, thank goodness, we are even growing faster than the mortgage foreclosure industry."

State News



Report Shows Effects of Climate Change to State Economies

The [American Security Project has released a state-by-state map compilation](#) of reports showing the economic, public health and tourism impacts of climate change if states take a business-as-usual approach over the coming years. Areas such as Florida, the Great Lakes region, and New England would take some of the biggest economy hits, with losses in Florida, for example, amounting to at least \$27 billion a year starting as early as 2025 according to one report. "I think [this report] will be pretty useful in future discussions about both the costs and benefits of regulatory action," Steve Seidel, vice president for policy analysis for the Pew Center on Global Climate Change, told press. He added that the value of the map was in identifying vulnerable sectors within each other states.

California: Utilities' Renewable Energy Usage on the Rise

Gov. Jerry Brown's signature sealed legislation last week setting a 33% target of electricity usage from renewable sources by 2020. Just under last year's 20% target, California's three major investor-owned utilities collectively used [renewable energy sources to make up 17.9% of their electricity generation in 2010](#), up from 15.4% in 2009. Pacific Gas & Electric (17.7% renewables in its 2010 load), Southern California Edison (19.4%), and San Diego Gas & Electric (11.9%) reported their renewable energy usage to the California Public Utilities Commission, showing that

The state's RPS program contributed to the growth, instigating 2,002 MW of new renewable commercial operation last year. Small hydroelectric facilities generated more in 2010 than in the previous three years, while utility power consumption decreased, allowing percentage of sales for renewable energy to go up. Brown has now said he may set his sights on a 40% goal.

International News



Europe

UK: New Lottery Offers Players Offsets for Carbon Emissions

A [new Carbon Lottery, expected to go live on April 27](#), will put a quarter of each ticket price toward carbon saving projects, while giving players the chance to calculate their carbon footprint and offset their personal emissions. With each £2 ticket worth 100kg of CO₂, the average UK resident would be able to offset their carbon footprint by purchasing two tickets a week. "There are two problems with the voluntary [offsetting] market: not that many people are offsetting; and there's not a well understood brand in the market," he said. "What we've created is an

alternative incentive - a monetary incentive - and a well understood format,” developer Gregor Paterson-Jones of South African investment house Sterling Waterford told press.

Turkey: Professor Questions Geothermal Licenses

Ümran Serpen, professor at Istanbul Technical University has questioned some of the geothermal exploration licenses that have been delivered in Turkey. “There are so many of those worthless licenses and you find people who are eager to market them and a few have made handsome profits by simply marketing a few licenses,” [he told press](#).

Italian Enel Green Power and Turkish Uzun Group formed an agreement in January to pursue geothermal energy projects by establishing a research and exploration company to carry out surface and deep geothermal exploration activities. “I will not say that somebody is cheating Enel, but it's a risky business, and we'll see the results,” said Serpen.

The company did not comment, but, “It's not common that worthless licenses are sold, but it depends on the specific laws and licensing procedures in the country,” Philippe Dumas, manager of the European Geothermal Energy Council, told press.

Americas

Central America: Transmission Line Expected This Year

The [Central American Electrical Interconnection System \(SIEPAC\) is expected to be completed later this year](#). The 1,800 km, 230-kv transmission line runs from Guatemala in the north to Panama in the south. It has a planned interchange capacity of 300 MW, which will be three times the present capacity. The projected cost is \$500 million.

Many Central American countries are focusing on generating needed electricity from renewable energy sources. Costa Rica, Honduras, Panama, Nicaragua, El Salvador, and Guatemala are all concentrating on renewable energy production. At this point, the region still gets about 80% of its total energy from imported fossil fuels, with the exception of Costa Rica, which derives 80% of its energy mix from renewable sources.

Peru: Hot Rock Acquires Two More Geothermal Sites

[Hot Rock Ltd. won two geothermal exploration sites](#), the company said last week, bringing their exploration site total in the region to three sites in Peru and eight in Chile. The company expects five more Peruvian concessions in the coming months. “The Peruvian government supports the development of geothermal energy through legislation that provides a mechanism for setting feed-in tariffs, tax incentives and guaranteed connection to the grid and sale of all power produced,” Executive Chairman Mark Elliott said in the company statement. Hot Rock is based in Australia.

Asia/Pacific

Australia: Drilling of Innamincka Exploration Well Completed; Panax Geothermal Plans Capital Raising; Geothermal Research Center Opens in Queensland

Origin Energy Geothermal and Geodynamics reported [completion of the Celsius 1 geothermal exploration well](#) at Innamincka. The well was drilled to 2,360 m and is the first of two wells at the site. Logging and testing has been started to assess the temperature, porosity and permeability.

Meanwhile, Panax Geothermal Ltd says it is [planning a capital raising in coming months](#). The company had \$1.4 million cash at the end of the March quarter, but planned to focus on ensuring equity capital, joint venture, and project funding. Australia, Singapore, and the broader Asia-Pacific region have been approached by the company regarding geothermal project opportunities. The company has projects in Indonesia.

And at the University of Queensland, the [Queensland Geothermal Energy Centre of Excellence \(QGECE\) has opened](#) and will serve as a major part of the state government's renewable energy strategy. "Geothermal has a bright future in Queensland because it has the potential to produce more base-load energy than any other renewable energy source," Energy Minister Stephen Robertson told press. "That's why the government is investing \$25 million towards geothermal energy research and development projects in Queensland." The center itself received \$15 million, the largest investment in geothermal energy research in Australia. Research will cover a variety of areas including electricity transmission and power networking modeling, geothermal reservoir exploration, characterization and management, and technology development.

China: Ministry Unveils Plan to Bolster Geothermal Power

China's central government will allocate [164 million yuan \(\\$25.2 million\) to explore and evaluate shallow-lying geothermal energy](#) in 29 provincial capital cities across the country, Guan Fengjun, director of the department of geological environment in the Ministry of Land and Resources said in an Earth Day address. Geothermal power can provide 1.7% of China's total energy in 2015, replacing 68.8 million tons of coal and reduce carbon dioxide emissions by 180 million tons, he said. Currently the largest geothermal power station in China is the Yangbajain station, which has generated 2.4 billion kilowatt-hours of electricity to date.

Indonesia: Joint Venture Makes Way for Ngebel Geothermal Project

Panax Geothermal has [signed a new agreement with Indonesian power company PT Bakrie Power](#) for the joint development of the Ngebel 165 MW geothermal project in East Java. Bakrie Power was awarded the tender in November 2010. "Panax is committed to building a strong geothermal business in Indonesia and this signing represents our fourth project in Indonesia. Panax's combined share of potential generating capacity from the four projects exceeds 160 megawatts, with significant upside potential beyond that," Panax Managing Director Kerry Parker told press. The designated development capacity is three 55-MW geothermal stations with the potential to

expand to over 200 MW. The Ngebel Geothermal project is expected to begin supplying geothermal energy to Indonesian state-owned power company PT PLN in late 2012.

Korea: Kim Jong Il Visits Geothermal Equipment Manufacturing Complex

General Secretary Kim Jong Il, of the Workers' Party of Korea and chairman of the DPRK National Defense Commission last week [visited the Ryongsong Machine Complex, which manufactures new geothermal equipment](#). He gave field guidance to the complex, and he praised officials, workers and technicians for their work making highly efficient cutting-edge energy saving equipment. The general secretary emphasized the need for scientific research institutes and universities to further their research into the use of geothermal as well as develop a thorough system of training technicians.

Philippines: EDC Holds Energy Summer Camp Graduation

The [Energy Summer Camp](#), a project of the geothermal giant Energy Development Corp. lauded 48 graduates last week: 32 from host community high schools in Negros Oriental, the rest from EDC's Northern Negros geothermal site. Participant learned survival training such as orienteering and basic map reading, basic mountaineering, basic rope techniques, and rappelling. Graduates received certificates and performed a ballroom dancing presentation.

Middle East

Qatar: U.S. DOE Signs Agreement to Strengthen Cooperation on Clean Energy

Press Release [\[Full story\]](#) — New York City, April 6 -- The U.S. Department of Energy (DOE) and the Qatar Science & Technology Park (QSTP) are today signing a Memorandum of Understanding (MOU) to promote collaboration on the development and deployment of cost-effective and sustainable clean energy technologies, building on the historically strong ties between the United States and Qatar. Under the expanded partnership, the countries will exchange scientific and technical information and undertake joint research, development, and deployment initiatives that will help spur energy innovation, create new markets for clean energy and support economic growth. The MOU was signed by U.S. Deputy Secretary of Energy Daniel Poneman and Dr. Tidu Maini, the Executive Chairman of QSTP, on the sidelines of the 2011 Business and Investment in Qatar Forum in New York.

"This partnership adds a new and exciting dimension to the already strong relationship between our two nations," said Deputy Secretary Poneman. "By bringing our scientists and engineers together to pursue joint research, we'll be able to develop the next generation of clean energy technologies more quickly. These innovations will help us to grow our economies and to build a more secure, prosperous, and sustainable clean energy future."



Geothermal Heat Pumps and Direct Use

Pittsburg State to Save Energy with Geothermal Unit

[Pittsburg State University in Kansas will use a new geothermal heating and cooling system](#) to power McPherson Hall and Timmons Chapel. The project could be completed by early July. The geothermal system cost \$600,000 and was partially funded through a \$250,000 grant from the Department of Energy. Some of the university's other outlying buildings may eventually get geothermal heating as well.

University President Steve Scott said: "Perhaps the best part of this project is that it uses technology that is readily available, and capable of being used in residential homes," Scott said. "We live in a world with finite resources and we have a responsibility to use them wisely." In all, the university plans to spend \$4.5 million on energy saving improvements, with resulting savings expected to cover the investment within 13 years.

Tennessee Couple Designs Energy Efficient Home on Google SketchUp

A [USA Today article](#) features Philippe and Thao Jeanty, who used Google SketchUp to design their energy efficient home in Tennessee. With a geothermal heating and cooling system and a rooftop 5-kilowatt solar array, the home is nearly completely self sufficient, and they have been able to sell electricity back to the grid. Other features include windows designed to let in warm sunshine during the winter and stay shaded in summer, lighting provided by LED bulbs, water supplied by ponds, thick exterior walls sealed with corn-based foam insulation, and a drop irrigation system for the garden. The Jeantys spent about \$350,000.



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



Notices

Current Notices

Public Comments Sought, U.S. Forest Service, Humboldt-Toiyabe Geothermal Leasing Project (May 16)

The Forest Service is now seeking public comments specific to the proposed Humboldt-Toiyabe Geothermal Leasing Project. The proposal will be analyzed in an Environmental Impact Statement (EIS).

Because of the interest in geothermal energy, and the recognized potential for geothermal resources on the eastern side of the Bridgeport Ranger District, the Humboldt-Toiyabe National Forest realizes that continued applications for leasing NFS lands for geothermal activity are likely. Therefore, the Humboldt-Toiyabe National Forest proposes analyzing not only the nominated areas across the Humboldt-Toiyabe National Forest and pending lease applications, but also the Nevada side of the Bridgeport District with a high geothermal interest. By incorporating portions of the Bridgeport District, as well as nominated lands and pending lease applications under one EIS, future nominations and applications may be addressed and consent or non-consent provided to the BLM in a timely manner.

The US Forest Service would consent to up to approximately 667,000 acres of NFS lands be administratively available for geothermal leasing.

Written comments must be submitted to: Keith Whaley, Project Manager, Humboldt-Toiyabe National Forest, Bridgeport Ranger District, HC 62 Box 1000 Bridgeport, CA 93517. Comments may also be sent via email or via facsimile to (760) 932-5899 or comments-intermtn-humboldt-toiyabe@fs.fed.us. Please place "Geothermal EIS" in the subject line. In order to be most useful, comments should be received by May 16, 2011.

GEA Honors -- Nomination Deadline Extended (July 1)

Deadline for nominations has been extended to July 1, 2011 for entries for the first-ever GEA Honors award program. "We are excited about the awards and the opportunity to recognize the geothermal industry's most innovative and inspiring developments from the past year," said Karl Gawell, Geothermal Energy Association Executive Director. "The GEA Honors will shine a light on the contributions being made by the individuals and companies who are doing an exemplary job of promoting and growing geothermal power." In this inaugural year, awards will be given to GEA member companies in the following categories:

- *Technological Advancement* – Awarded to an individual or company that has developed a new, innovative, and/or pioneering technology to further development
- *Environmental Stewardship* – Awarded to an individual or company that has fostered outstanding environmental stewardship through the use of geothermal systems. Award to be presented in conjunction with the environmental and Energy Study Institute (EESI)
- *Economic Development* – Awarded to an individual or company that has made a substantial contribution to the development of local, regional, or national markets through the development of geothermal systems

Additionally, the GEA Honors will be accepting nominations for special recognition of those individuals and companies who have made outstanding achievements in the geothermal industry. These awards are open to GEA members as well as non-member companies and individuals. To place nominations for GEA Honors 2011 please go to: <http://www.geo-energy.org/GEAHonors.aspx>.

Employment



Employment Opportunities

Only basic information and contact is given below—more detail on all opportunities listed here is available at http://geo-energy.org/empl_opport.aspx.

Tenure-line Position, Energy Resources Engineering, Stanford University

The Department of Energy Resources Engineering at Stanford University [invites applications for a tenure-line faculty appointment](#). The position is at the assistant professor level. It is desired that the selected candidate be able to start by January 2012.

The Department of Energy Resources Engineering focuses on a wide range of activities related to the recovery of the Earth's energy resources (e.g., hydrocarbons, geothermal, and renewables). The Department also has active research programs on carbon sequestration and clean energy conversions. ERE offers degrees in both energy resources engineering (B.S., M.S., Ph.D.) and petroleum engineering (M.S., Ph.D.). The ideal candidate should have research and teaching interests beyond traditional petroleum engineering disciplines.

We seek scholars with a Ph.D. in a relevant field with novel and innovative research interests in energy resources, such as in one or more of the following areas:

1. Energy systems modeling and optimization, for example integration of energy recovery and carbon sequestration
2. Engineering of enhanced geothermal systems

3. Recovery of unconventional energy resources, such as coalbed gas, shale gas or gas hydrates
4. Renewable energy resources

Please apply online at <https://academicjobsonline.org/ajo/jobs/685/> in electronic format (pdf only) with the following application material:

- cover letter
- curriculum vitae
- a statement outlining research and teaching interests
- the names of three references including e-mail addresses
- copies of up to five selected papers published in refereed journals over the past three years

We will begin reviewing applications on April 15, 2011 and will continue until a suitable candidate is identified.

Director – Business Development, GeoTek, Midland, Texas

GeoTek is an early stage geothermal technology company, focused on maximizing alternative energy resources. We are seeking a Director of Business Development to add to our executive staff. As part of a cross-functional team, this person will manage and develop marketing and expansion opportunities for the company's geothermal energy technology. Qualified candidates should submit a resume to info@geotekenergy.com

Reservoir Engineering Manager – Geothermal, Chevron, Jakarta, Indonesia

Chevron Asia Pacific Exploration and Production is accepting online applications for the position of Reservoir Engineering Manager located in Jakarta, Indonesia. To learn more about this exciting position and to apply visit www.chevron.apply2jobs.com and search by requisition 081116435. All applicants must apply via the Chevron online application process.

***For Students!* EPA Summer Employment Program Application Underway**

From EPA: The U.S. Environmental Protection Agency is looking for energetic and highly motivated students for summer employment. [More information and application information is available on the EPA web site.](#)

Sr. Applications Engineer, ElectraTherm

Start date: Immediate, Posting Date: 3/9/2011

Contact: Jan Petersen – jpetersen@electratherm.com, 775-398-4680

Associate Director, California Geothermal Energy Collaborative, UC Davis Energy Institute

For more information on the position, go to the UC Davis staff web page

<https://www.employment.ucdavis.edu/applicants/jsp/shared/frameset/Frameset.jsp?time=1297906619426>

Click on search button and scroll down to the listing. The Quick link to apply will take you directly to the posting -

www.employment.ucdavis.edu/applicants/Central?quickFind=58431

Sr. Engineer, McHale & Associates, Arvada, CO

McHale is seeking a Sr. Engineer to conceive, develop and implement projects of major significance to the business plan.

Consultant to Assess the Geothermal Market in Turkey, EBRD

The European Bank for Reconstruction and Development is considering a wide range of renewable energy proposals in Turkey, some of which are in the geothermal sector, and as such requires a consultant to provide an assessment of the Geothermal Market in Turkey. See <http://www.ebrd.com/pages/homepage.shtml> and

<http://www.balkans.com/open-news.php?uniquenumber=91332>

General Manager, Geothermal Exploration, Origin Energy (Indonesia)

Jakarta based with domestic and international travel. If you are interested in this opportunity or other geothermal opportunities please contact: Jennifer Blake on +617 3867 0022 or email jennifer.blake@originenergy.com.au.

NREL Seeking Applicants for Geothermal Analysis Group

We're looking for applicants with geothermal or related technical backgrounds that have strong analytical skills and good writing/communication skills. If you have any graduate students, post-docs, former undergrads with some experience, or other contacts that are looking for employment and would be good fits for any of these positions, please forward them the information. They can also apply for the positions online at

http://www.nrel.gov/employment/job_openings.html.

Senior Level Assistant Site Manager, Operations and Maintenance

Contact: Richard@mrspokane.com or call 509-340-2852 Ext. 18

Senior Principal Geothermal Geologist – Brisbane, Australia

Shane Stevens / Talent Search Team Manager, Origin

Email: Shane.stevens@originenergy.com.au Phone: +61 00 11 73858 0237

Vice President Geology, Western US

Please send resumes to Bstevens@stmassociates.com

Geothermal Openings, NREL, Boulder, CO

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

Drilling Manager, NV

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

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

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

Project Manager

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

Development Manager

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

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com

Requests for Proposals**Proposal Announcements****Invitation to Bidding, EEPSCO, Consumables for Geothermal Drilling, Ethiopia**

The Ethiopian Electric Power Corporation (EEPSCO) now invites sealed bids from eligible and qualified bidders for the procurement of Drilling Consumables under 6 lots. Bidding will be conducted through the International Competitive Bidding (ICB) procedures specified in the World Bank's Guidelines: Procurement under IBRD Loans and IDA Credits dated January 2011, and is open to all bidders from Eligible Source Countries as defined in the Guidelines. Interested eligible bidders may obtain further information from Ethiopian Electric Power Corporation Ethiopian, Aluto Geothermal Power Plant Expansion Project Office; Mexico square, Addis Ababa, Tel.: +251-115-51 25 64 Fax: +251-115-52 57 10 27 attention Ato Mulugeta Asaye; email: asayemulu@yahoo.com.

Advertisements are available on the UNDB and dgMarket websites. (4/7/11)



Call for Expressions of Interest, Geothermal Development Company Ltd, Kenya

Bogoria-Silali Block Phase I

1. Introduction: Geothermal Development Company Limited (GDC) is a 100% state-owned corporation, tasked with accelerating development of geothermal resources in Kenya. GDC is supporting development of at least 10,000MW by 2030 in line with Vision 2030 targets. GDC is undertaking steam field development in the Bogoria-Silali Block which comprises Bogoria, Baringo, Arus, Korosi, Chepchuk, Paka and Silali prospects. Detailed surface studies estimates the Block's potential to be about 3000 MW. The current plan is to develop 2000 MW within this Block in four phases; Phase I- 800 MW by 2017, Phase II-400 MW by 2019, Phase III-400 MW by 2021 and Phase IV-400 MW by 2023.

2. Status and Electricity Demand: The current peak power demand stands at about 1,200 MW and is projected to grow by 10% to at least 17,000 MW over the next 20 years.

3. Project Development Plan: The 800MW Bogoria-Silali Phase I Geothermal Project in configurations of 8x100MW power plants is projected to be completed by 2017. A total of 200 wells will be drilled using 8 rigs starting in January, 2012.

4. Project Status: Detailed surface studies have been completed and acquisition of regulatory licenses is in progress. Infrastructural development will start from July, 2011.

5. Objective of EoI: GDC intends to short list potential investors to develop 8x100MW power plant units at its Bogoria-Silali Block.

6. Investment Scope

6.1 GDC: Under this project, GDC will undertake Resource Development and Management covering the Development of Civil Infrastructure, Exploration and Appraisal Drilling, Feasibility Studies, Production Drilling, Reservoir, Condensate and Brine System Management.

6.2 Investors: The Investors role will include financing, design, construction, operation and maintenance of the power plants. In addition, subject to positive feasibility study, GDC will require the selected investors to partner in financing the steam development. Funds obtained from the investors, on terms and conditions to be agreed, will be a loan to GDC which will be repaid from steam sales revenues. While steam field is under development, the investor will have the opportunity to install wellhead generation units for early power generation. The Government of Kenya will not provide sovereign guarantees relating to this investment and therefore the investors should seek other alternatives such as MIGA (World Bank)

7. Bidding Timeline: This Expression of interest will result in short listing of interested investors who will be invited to submit proposals. It is expected that the short listing will be completed by September, 2011 followed by request for detailed proposal. The Selection of preferred investors will be completed by December, 2012. The award to the preferred investors will be subject to the investor successfully negotiating a Power Purchase Agreement (PPA) with Kenya Power and Lighting Company Limited (power off-taker), securing a generation license from the Energy Regulatory Commission, conclude a steam (fuel) supply agreement with GDC, obtain ESIA license for power generation from NEMA and conclude financing within ONE (1) YEAR from December 2012. A period of 30 months will be provided for power plant construction.

8. Evaluation Criteria: Interested Investor(s)/Consortium must provide information indicating that they are qualified to successfully undertake the envisioned development. Short listing of Investor(s)/Consortium will be based on the following:

- i. Capability to mobilize adequate financing for the power plant. The expected capital structure for the power plants is at least 25% equity and 75% debt. The interested investor(s)/consortia shall establish that they have the capability to raise at least US\$ 400 million for the development of each 100 MW supported by letters from credible financier(s).
- ii. Certified copies of audited annual reports for the last five years, articles and memorandum of association and certificate of incorporation will be required.
- iii. Evidence of experience in geothermal/thermal project implementation with at least one project of a size not less than 30 MW implemented in the last 10 years.
- iv. A list and CV's of the consultants/ contractors they propose to employ for the development including names of their lead project managers within their organizations, contractors and consultants.
- v. A list of names, location, current power plant(s) status and size of geothermal/thermal projects undertaken by themselves or their proposed consultants and contractors in the last 10 years including indicative project costs.
- iv. Declaration of all pending litigation(s) against the investor(s)/consortia which shall in total not represent more than 10%, (ten percent) of the investor(s)/consortia's net worth.

Interested investors may request in writing for further information and clarifications on this matter at the following address

Manager, Supply Chain

Geothermal Development Company Limited,

Taj Tower, 9th Floor, Upper Hill Road, Upper Hill

P.O. Box 100746 – 00101

NAIROBI, KENYA

E-mail: asaat@gdc.co.ke and copy to pngugi@gdc.co.ke

Any updates on this EOI will be posted on the GDC website: www.gdc.co.ke/tenders

9. Submission of Expressions of Interest: One (1) Original and two (2) Copies, of Expressions of Interest in English and in a sealed envelope, superscribed "Expressions of Interest, - Bogoria – Silali Block Phase I: Development of 800 MW Geothermal Power Plants" and bearing the address below, must be deposited in the Tender Box on the 1st Floor, GDC Riverside Office, Riverside Drive, Nairobi no later than 14:00hrs on August 8, 2011. All late submissions will be rejected.

The Managing Director & CEO,

Geothermal Development Company Limited,

Taj Tower, 9th Floor, Upper Hill Road, Upper Hill

P.O. Box 100746 – 00101

NAIROBI, KENYA

E-mail: md@gdc.co.ke

GDC reserves the right to reject any or all Expressions of Interest without engaging any investor whatsoever.

Nevada Accepting Land Nominations for January 2012 Geothermal Lease Sale

The Nevada State Office is now accepting nominations of lands for competitive geothermal leasing for the next [geothermal lease sale that is tentatively scheduled for January 24, 2012](#). Land nominations must be submitted on Department of the Interior (DOI), Bureau of Land Management (BLM) Form 3203-1, and comply with 43 CFR 3203 (72 FR 24406, May 2, 2007). Please refer to these regulations for nomination requirements regarding maximum acreage, acceptable land descriptions, and nominating parcels as a block. These regulations may be found at: <http://ecfr.gpoaccess.gov/> under Title 43, Volume 2, Chapter II, Part 3200. All land nominations must be received by the Nevada State Office no later than June 24, 2011, in order to be considered for the January 2012 Geothermal Lease Sale. Nominations received after June 24, 2011, will be processed for future sales. Questions, please call Irene Hoiby at (775) 861-66641; facsimile at 775-861-6710; ihoiby@nv.blm.gov.

Immediate Drilling Rig & Crew Availability (March–April 2011)

Rig 77 - 2007 Model 200,000 lb. capacity rig & crew. Depth capacity +/- 5000' + with 4 1/2" drill pipe; square set derrick, double drum table drive unit (18" flip up hydraulic table), & pipe handling system. Conventional drilling with (2) 600 HP Mud pumps (2008 with Tier 3 Engines). Approximately 15' Clearance KB. You can view pictures, footprint and rig inventory at: <http://www.barbourwell.com/rigs1.html>.

Contact for rates and scheduling:

Steve Zarcone, Director of Business Development, Barbour Well, Inc.

260 Sunpac Ave. Henderson, NV 89011, 805-207-6407

www.barbourwell.com

Refurbished 27-MW Marine Turbine, Ram Power

This turbine, originally designed by Westinghouse for aircraft carrier service, has been completely refurbished for geothermal service. It has been re-rated to 27,350 kW at design inlet conditions of 469,875 lb/h 60 psig, 307F inlet conditions; 3.0" HgA exhaust. At a steam flow of 431,215 lb/h, it is expected that the turbine will produce 25,100 kW.

New engineering performed for this machine includes: New steam path engineering and all new manufacturing/performance drawings are available, including interstage and inner gland steam sealing manufacturing drawings, turbine clearance diagrams, rotor lifting diagrams, and new flow path performance curves at the anticipated steam flow rates.

Hardware includes: New 5 stage rotor, new diaphragms, generator and governor end gland steam packing sets, interstage packing sets, T1 and T2 axial aligning journal bearings, one high capacity active thrust bearing and one high capacity inactive thrust bearing, with directed lubrication and temperature sensors. The machine is set up for mounting five Bently Nevada XL-8mm proximity probes. Also included in the sale package are: turbine casing testing, final turbine assembly check, preparation and compilation of all material certifications, test reports and QA documents. The complete package (rotor, diaphragms, seals, and casings) can be prepared for ocean transport with appropriate preservation for short-term storage.

Turbine current delivery date is 3-4 months after a purchase agreement is established, ex-works Houston, TX, USA. Please contact info@ram-power.com for further information.

Alaska Fairbanks North Star Borough Offers \$1M Matched-Funds Grant

Alaska's Fairbanks North Star Borough is putting out a \$1 million grant through the Department of Energy for geothermal energy exploration for the proposal venture that can provide matching funds. Former Mayor Jim Whitaker initiated the request based on positive results of deep well testing 50 years ago. Luke Hopkins, Mayor of Fairbanks North Star Borough said researchers at the University of Alaska Fairbanks have shown interest. The goal is to find out whether the university's existing power plant could be replaced with a geothermal power plant.

See <http://www.azocleantech.com/details.asp?newsID=12786>, Fairbanks North Star Borough

<http://www.co.fairbanks.ak.us/>, PDF: <http://co.fairbanks.ak.us/Meetings/Ordinances/2010/2010-20-1o.pdf>

Events

GEA Events



Geothermal Energy Technology and International Development Forum, Washington, DC (May 4)

This event will be held Wednesday, May 4, 2011, at the Ronald Reagan Building and International Trade Center, Washington, DC, and is developed in conjunction with supporting agencies; U.S. Department of Energy and U.S. Department of Commerce. For more information, including the preliminary agenda and registration, visit:

http://www.geo-energy.org/events/May2011_ShowcaseForum.aspx.

GEA will be holding a one-day "Geothermal Energy Technology and International Development Forum" in Washington, DC on Wednesday, May 4, 2011 at the Ronald Reagan Building and International Trade Center. The program seeks to showcase geothermal projects, trends, and governmental policies in the U.S. and around the world. Topics covered will include; the geothermal market today, projects under development in the U.S. and internationally, outlook for the future of the geothermal market , jobs and money, new technologies, and federal agency support at home and abroad.

There will also be a small exhibition area featuring leading companies in the geothermal energy industry.

This event has been developed in conjunction with the U.S. Department of Energy and the U.S. Department of Commerce and is open to the geothermal industry. The “Geothermal Energy Technology and International Development Forum” will be widely attended with over two-hundred industry leaders, foreign diplomats, financiers and government officials expected to participate.

Confirmed speakers to date include:

- **Allyson Anderson**, Professional Staff, Senate Committee on Energy and Natural Resources
- **Karl Gawell**, Executive Director, Geothermal Energy Association
- **Halley Dickey**, Director of Geothermal Business Development, TAS
- **Jonathan Weisgall**, VP, Legislative and Regulatory Affairs, MidAmerican Energy Holdings Co.
- **Josh Nordquist**, Project Manager, Ormat Technologies
- **Mark Taylor**, Lead Analyst, CCS and Geothermal, Bloomberg New Energy Finance
- **Mike Ronzello**, Geothermal Business Development Manager, Pratt & Whitney Power Systems
- **Dan Jennejohn**, Research Associate, Geothermal Energy Association
- **Craig Mataczynski**, CEO, Gradient Resources
- **Kevin Wallace**, Senior Project Manager and Renewables Market Manager, POWER Engineers
- **Bob Manasse**, Enel Green Power North America, Inc.
- **U.S. Department of Energy, Geothermal Technology Program**
- **Thomas Zich**, Emabond Solutions
- **Robert Hunt**, Linear Power
- **Jamie Merriman**, U.S. Trade and Development Agency
- **Doug Dougherty**, President, Geothermal Exchange Organization
- **Noam Ayali**, Partner, Chadbourne and Parke LLP

Wednesday, May 4, 2011

7:30 am Registration

9:00 am – 12:15 pm Morning Session

12:15 – 1:15 pm Luncheon

1:15 – 5:00 pm Afternoon Session

This event will be located at the Ronald Reagan Building and International Trade Center, Atrium Hall, 1300 Pennsylvania Ave., NW, Washington, DC, USA.

For more information, including the full agenda, visit: For more information, including the preliminary agenda and registration, visit: http://www.geo-energy.org/events/May2011_ShowcaseForum.aspx. With any questions, please feel free to email Kathy Kent at kathy@geo-energy.org. For media credentials, please contact Garret Drexler at 646-695-7042 or garret@rosengrouppr.com.

GEA Team to Power Brita Climate Ride—Donate Before May 5 (May 13-17)

GEA has assembled a team to participate in the Brita Climate Ride from New York City to Washington, DC, May 13–17. The 5-day ride begins in Manhattan and passes through Princeton, Pennsylvania Amish Country, and Maryland horse country. The ride ends at the US Capitol where riders will have a chance to meet with Congressional representatives.

Climate Ride is a non-profit organization that puts on fully supported, charitable bike rides to support sustainable solutions and environmental causes. Participation in the event helps provide finances and awareness to renewable energy and environmental causes. You can join our team or contribute to help us reach the donation goal at: <http://climateride.donordrive.com/index.cfm?fuseaction=donorDrive.team&eventID=501&teamID=5027>

GEA National Geothermal Summit, Reno, NV (August 16-17)

GEA is planning its first National Geothermal Summit for Reno, August 16-17. Watch for more information on this event from GEA, or contact Kathy Kent at kathy@geo-energy.org.

GEA Geothermal Energy Expo® and GRC Annual Meeting 2011, San Diego, CA (October 23–26)

The GEA Geothermal Energy Expo is 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 2011 Expo is certain to be the largest-ever gathering of the geothermal community," said GEA Marketing and Events Director Kathy Kent. "Each year the growing geothermal industry comes together for this event and it has become the most vital gathering for companies and leaders developing geothermal resources around the world." The 2010 Expo in Sacramento featured more than 2,500 attendees from 42 different states and 13 different countries. The sold out Expo Hall featured 162 exhibitors coming from 34 different states and 10 different countries. Please contact Kathy Kent, Kathy@geo-energy.org for information, registration, sponsorship opportunities, etc.

Exhibitor Registration Open for GEA Geothermal Expo

Washington, DC (March 11, 2011) – Registration for exhibitors at the 2011 GEA Geothermal Expo in San Diego, Calif. from Oct 23-26 has opened at <http://www.geothermalenergy2011.com/>.

Sponsorship Opportunities Available for GEA Events

Your company has the opportunity for high visibility at GEA's 2011 events. In addition to providing the financial support needed for GEA to undertake successful events, GEA events feature media availabilities with sponsors which garner extensive coverage in mainstream press outlets. Sponsorship details are posted online:

<http://www.geo-energy.org/images/GEA2011SponsorshipOpps9.pdf>.

Other Events**Geothermal Reporter Training, ONRR, Reno NV (May 10-12, tentative)**

ONRR (formerly MMS) is planning a Geothermal Reporter Training, possibly for Reno, later this spring.

Contact Leona Reilly, Minerals Revenue Analyst, Office of Natural Resource Revenue

303.231.3024 Fax 303.445.4245

leona.reilly@onrr.gov

California Geothermal Energy Collaborative Summit, Mammoth Lakes, CA (May 26-27)

The California Geothermal Energy Collaborative will be holding its annual Geothermal Forum on May 26th and a Long Valley Field Trip on May 27th Registration is now OPEN at <http://www.regonline.com/2011geoforum>.

Information on the Forum, Field Trip and directions to the Mammoth Mountain are also available. The day before the CGEC Forum (May 25th), the Geothermal Resources Council is holding a Technical Workshop. For more information and to register for their event, go to the GRC website at www.geothermal.org/works.html

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

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

National Geothermal Academy, University of Nevada, Reno (June 20 to August 12)

This summer the [National Geothermal Academy will hold its inaugural summer session at the University of Nevada, Reno](#). Forty students will be involved in an 8-week geothermal energy education program. Cornell University, Stanford University, Southern Methodist University, West Virginia University, the Oregon Institute of Technology, the University of Utah and Dartmouth will all participate. The Department of Energy awarded UNR a \$995,000 grant for the academy. "Indonesia, New Zealand and Iceland have held similar academies, but this academy is the first in our country," Wendy Calvin, coordinator of the academy and director of the University of Nevada Great Basin Center for Geothermal Energy, said in a statement. "Nevada has great local resources for the academy. The consortium selected our school because of its proximity to drilling sites, power plants and heat sources, as well as for its leadership in multidisciplinary research that has led to discovering new technologies for

exploration, production and development of geothermal resources.” For more information go to <http://www.unr.edu/geothermal/NGA.htm>

CanGEA Events (September and November)

September 14th, 2011 - Toronto, ON, Geothermal Investment Forum and Networking Event

November 9th, 2011 – Calgary, AB, Geothermal Power Forum and Networking Event

GEOHERMAL ENERGY WEEKLY

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

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