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**National News**



**Oregon Senator Ron Wyden to Deliver Keynote Address at GEA Geothermal Energy Technology and International Development Forum**

*Forum to be held May 4 at the Ronald Reagan Building and International Trade Center in Washington, DC — Washington, DC (April 27, 2011) – Senator Ron Wyden will deliver a keynote address to geothermal industry leaders from the United States and abroad at the Geothermal Energy Association (GEA) 2011 Geothermal Energy Technology and International Development Forum. The event, on Wednesday, May 4 at The Ronald Reagan Building and International Trade Center, will feature voices building geothermal projects across the nation and world.*

The U.S. Department of Commerce and the U.S. Department of Energy have collaborated with GEA for the event. Over two hundred industry leaders, foreign diplomats, financiers and government officials are expected to participate. They will be joined by representatives from congressional offices and Gold Level Sponsor Atlas

Copco along with conference sponsors Enel Green Power, Pratt and Whitney, GeothermEx, and the Institute of Earth Science and Engineering. "The growth of the geothermal market here in the United States has remained strong and will continue to grow," said Karl Gawell, GEA Executive Director and Chairman of the Department of Commerce Renewable Energy and Energy Efficiency Advisory Committee. "This industry also has massive potential overseas and the participation of so many geothermal supporters from across the world is showing that growth of this industry will continue strongly abroad."

"As geothermal growth spreads across our country and around the world, we see an increasing opportunity to help in building a global safe, clean, and renewable power infrastructure," said Behrooz Ershaghi, Manager of Technology for Atlas Copco. "We strongly support GEA's efforts to educate, inform, and help expand the use of geothermal today and in the years to come."

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.

## **Senate Energy Committee Considers Proposed Clean Energy Deployment**

### **Administration**

On May 3, the U.S. Senate Committee on Energy and Natural Resources will receive testimony on the proposal for a Clean Energy Deployment Administration, an organization that would be assigned to finding the best ways to incentivize clean energy innovation and deployment. Chairman Sen. Jeff Bingaman (D-NM) proposed the Administration under a bipartisan bill in 2009, but the bill was never voted on. Witnesses will include Jonathan Silver, executive director of the Loan Guarantee Program, U.S. Department of Energy; Dan Reicher, executive director, Steyer-Taylor Center for Energy Policy and Finance, Stanford University, Palo Alto; Kassia Yanosek, founding principal, Tana Energy Capital LLC, New York City; and Christopher Guith, vice president for policy for the Institute for 21st Century Energy, U.S. Chamber of Commerce, Washington.

## **DOE Estimates \$20-25B to Loan Guarantees for Renewables Before September Deadline**

Alternative energy projects can expect to see [up to \\$25 billion in loans guaranteed before the program ends](#) in September. It "probably equates to \$20-25 billion in total loan guarantees when done, and we will be there when the program sunsets. That's in total for that program. Probably half to two-thirds of that has been done already," head of the loan guarantee program Jonathan Silver at DOE said at a GigaOm GreenNNet conference in San Francisco.



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## **Company News**

### **GEA: Geothermal Climate Ride Team Raises \$7000 and Counting**

The “Geothermal Rock and Rollers” team will proudly represent the first-ever geothermal team at the Brita Climate Ride, May 13 to 17, riding from New York City to Washington, DC with over 150 like-minded, carbon-free travelers. Headed by Shawna Seldon, Leslie Blodgett, and Kathy Kent, the geothermal team has already raised over \$7000 to increase awareness of climate change.

Each participant pays a registration fee of \$75 and then, along with physical training, raises at least \$2,400 to participate in the ride. Donations go to support a collection of nine beneficiary organizations that are working to engage citizens in the possibility of a renewable energy-based economy, educate the public about the impacts of the climate crisis, to mobilize government and businesses to enact meaningful climate and energy policies, and promote the bicycle as a viable form of transportation.

The geothermal team is very close to meeting their goal, and you can help! Click on a rider’s name to support their ride, the geothermal team, and the environment:

[Shawna Seldon](#) is senior vice president at The Rosen Group and has been working on public outreach with the Geothermal Energy Association since 2009. “This will be my third Climate Ride in a row, and it is always a challenging feat to ride 300 miles in 5 days,” said Seldon. “But each year, I have devoted myself to this cause, because the event inspires real people to take action in their regular lives, whether it’s trading plastic bottles for reusable water thermoses, or switching a car for a bike. Climate Ride is about a new energy future. It’s about awareness and exchanging ideas, challenging myself, and doing something I believe in. And it’s going to be a really beautiful ride.”

[Kathy Kent](#) is Director of Events, Membership & Marketing for the Geothermal Energy Association. For the past three and a half years she has developed educational and outreach programs for the geothermal industry. This will be her first Climate Ride. She is an avid environmentalist, daily bike rider, yoga enthusiast, animal lover, and world traveler. She is thrilled to be participating in the Climate Ride. “My passion is the environment and educating others on the importance of taking care of it,” she says. “We only have one Earth and now more than ever it needs our tender love and care. Climate Ride gives me a chance to meet other like minded individuals and spread the word in numbers of the atrocity of climate change and what we can do to protect our Mother Earth. I look forward to the challenge of the 300 miles and know that I will end the ride stronger and with new like minded friends. Best of all I know I will have made a positive impact on raised awareness of climate change. I am proud to be supporting this cause and just by doing this ride I have already raised awareness in my friends and family.”

[Leslie Blodgett](#) has been viewing the world through a green lens at the Geothermal Energy Association for over three years as Media and Outreach Director. She writes and edits the Geothermal Energy Weekly newsletter and the Geo-energist blog, and drafted the association's popular handbook, *Geothermal 101: Basics of Geothermal Energy Production and Use*. Blodgett has developed and assisted educational and outreach programs for the geothermal industry in DC, New York, California, Nevada, Texas, and Florida. She has also contributed to a number of green publications including *North American Clean Energy Magazine*, *Alternative Power Construction Magazine*, *RenewableEnergyWorld.com*, *Renewable Energy Focus (UK)*, and *Sustainable Land Development International*. "I write about ways that leaders in policy and industry must work together to best assist in the security and wise use of Earth's resources on a local, national, and ultimately a global scale," Blodgett says. "These topics are critical to the message of Climate Ride, a mass movement of thoughtful people who, when it comes down to it, are participating out of sheer enjoyment of being on Earth."

The Geothermal Rock and Rollers would like to thank GEA member Atlas Copco for their generous help in sponsoring this cause, as well as the many other donors who are making the ride possible for the GEA team.

Funds raised for the ride will benefit: Rails-to-Trails Conservancy (Washington, D.C.), Green America (Washington, D.C.), 350.org (San Francisco, Calif.), 1% For the Planet (Waitsfield, VT.), Transportation Alternatives (New York, N.Y.), Washington Area Bicyclist Association (Washington, D.C.), San Francisco Bicycle Coalition (San Francisco, Calif.), and Climate Counts (Manchester, N.H.).

The Brita Climate Ride NYC-DC 2011 is the first multi-day bicycle ride to raise money for and awareness of climate change, renewable energy and bicycle advocacy. Participants will cycle approximately 60 miles a day and spent nights at group accommodations and campgrounds. Along the way, guest speakers will educate and inspire Climate Riders about the science, the policies and the solutions to the current climate crisis. Topics will include climate science, sustainable living, and the environment.

### **Ormat Technologies: Environmental Review Underway for Casa Diablo 4 Geothermal Project**

Ormat Technologies is moving forward with plans for the proposed 33-MW Casa Diablo 4 Geothermal Development Project near Mammoth Lakes, California. The company, which already operates three power plants in the area, drilled two exploratory wells last year, and the project is now undergoing environmental review.

Ormat may drill up to (but not more than) 16 wells for the project, and construction would also include the new plant, approximately 2.5 miles of new pipeline, and transmission lines to connect to Southern California Edison's grid. The environmental review process is expected to be complete by early 2012.

The [BLM is accepting public comments](#), due by May 9, for the scoping portion of the environmental review process. Written comments on the proposed Casa Diablo IV Geothermal Development Project may be submitted to the BLM Bishop Field Office, Attn: Casa Diablo IV Geothermal Development Project, 351 Pacu Lane, Suite 100, Bishop, CA 93514; or by email to [cabipubcom@ca.blm.gov](mailto:cabipubcom@ca.blm.gov); or by Fax to 760.872.5050.

### **Raser Technologies: Company Files for Reorganization Under Chapter 11**

Press Release [\[Full story\]](#) — Provo, Utah, April 29 — Raser Technologies, Inc. (OTCBB: RZTI), a renewable energy company, today announced it and all of its wholly-owned subsidiaries (collectively, the "Company") filed voluntary petitions under Chapter 11 of the United States Bankruptcy Code (the "Bankruptcy Code") in the United States Bankruptcy Court for the District of Delaware (the "Court") to effect a restructuring of the Company's business and capital structure.

The Chapter 11 petitions were filed to effectuate certain transactions contemplated by a Plan Support and Restructuring Agreement dated April 28, 2011 (the "Plan Support Agreement"), among the Company, the Thermo No. 1 project secured creditors and certain holders of the Company's unsecured 8% Convertible Senior Notes Due 2013. Under the terms of the Plan Support Agreement, the Company will restructure substantially all of its liabilities, including over \$90 million of secured and unsecured debt and over \$5 million in trade obligations and other claims, and will receive an infusion of new capital to ensure that the Company will be in a position to continue its operations in the ordinary course and execute its business plan.

Nick Goodman, Chairman & CEO of the Company, said, "Throughout the reorganization process, we will be conducting 'business as usual' and have taken every step possible to ensure that the Chapter 11 filings will not adversely affect our day-to-day operations or the delivery of power from our Thermo No. 1 plant. These steps include obtaining a committed \$8.75 million debtor-in-possession financing facility from two of our bondholders." He added, "Reorganizing and recapitalizing the Company is a critical step in positioning the Company to obtain the capital we need to repower our Thermo No. 1 project, develop our resource portfolio and take advantage of growth opportunities in the geothermal energy market. Today's action will provide long-term relief from our debilitating legacy debt and allow us to pursue development of innovative geothermal and other renewable energy solutions. We are optimistic that the strong support we have received from our creditors will facilitate an accelerated pace for our reorganization and our exit from bankruptcy."

## **Terra-Gen Power and TAS Energy: Beowawe Adds 2 MW — First ARRA-Supported Geothermal Project Goes On Line**

Last week the [Beowawe geothermal plant in Nevada](#) began using a new binary technology facility that adds about 2 MW of capacity to the existing 17-MW output. The organic rankine cycle technology captures heat from geothermal brine that normally goes to waste. It was created by Terra-Gen Power and TAS Energy with support from the American Recovery and Reinvestment Act and is the first ARRA-funded geothermal project in the country to begin producing power.

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### **International News**

#### **Africa**

##### **Kenya: Construction of Silale Geothermal Station Coming Soon**

Preparations for construction of the [Silale Geothermal Station in the North Rift region](#) could begin in July, with drilling to begin early next year, Geothermal Development Company's North Rift manager Cornel Ofwona said last week. The project is seeking Sh3 billion. Ofwona told press his officers are engaging locals and the provincial administration regarding insecurity in the bandit prone region: "So far, the feedback has been positive. The community knows that they stand to gain a lot from the project," the manager said. For example, clearing the roads leading to the geothermal plant will open up previously inaccessible areas and provide water for the residents.

#### **Americas**

##### **Canada: First Nations and Yukon Energy Sign Geothermal Cooperation Agreement**

Three [First Nations in the Yukon have signed a protocol agreement](#) with Yukon Energy Corp that outlines objectives and areas of common interest and will allow the First Nations to work closely with the energy company on developing geothermal and biomass energy sources. Champagne and Aishihik Chief James Allen said the agreement will create jobs for First Nation members. "Yukon Energy's hope is that we are able to sign similar protocol agreements with other local First Nations," spokesperson Janet Patterson told press.



**Nevis: Geothermal Project Receives Environmental Approval and \$57M from Ex-Im Bank**

On April 15, the Nevis Island Administration approved the Environmental Impact Assessment for [West Indies Power's 8.5-MW Spring Hill geothermal project](#). The approval included installation a transmission system to connect the plant to the grid.

"This is a great moment for the geothermal project on Nevis and the Caribbean," Kerry McDonald, CEO of WIP told press. "This approval is one of the requirements needed to complete the financing of the geothermal project by the Export Import Bank of the United States and to allow WIP to commence physical work at Spring Hill so that it can provide geothermal power to Nevis in 2012."

A resolution from the U.S. Export Import (Ex-Im) Bank guaranteeing a [US\\$57 million loan](#) for the project was also recently approved.

Energy Minister Carlisle Powell said: "Geothermal development is important for the two islands because it would help insulate them from the high and variable costs of distillate and reduce CO2 emissions. St. Kitts and Nevis would benefit from large savings in the region of US\$159 million from geothermal developments on Nevis and an interconnection to St. Kitts. The savings are much higher than the increased cost associated with developing the plant and the interconnection and those were put at around US\$100 million."

**Europe:****Spain: Petratherm Advancing Spain Activities**

The Australian [Petratherm's Spanish subsidiary](#) is working with geothermal venture partner Enel Green Power to finalize the drilling target and costs for a slim-hole exploratory well on the island of Tenerife, the largest of the Canary Islands. A preliminary design and cost for a deep production well is also being assessed, and Petratherm and EGP are commencing discussions with three additional parties with plans to bring on an additional partner.

Petratherm España has also completed design on the Madrid Geothermal District Heating project and is negotiating joint venture agreements with a major European utility. Grant submissions for both projects are currently being sought by the Spanish federal government.

## Pacific/Asia

### Fiji: First Geothermal Station Underway

Geothermal Electric Limited is moving forward with [plans to install the first geothermal power station in Fiji](#) at Savusavu, “our most famous hot springs area,” CEO and Director Tim Daniel told press. “Following that, if there is enough heat underground to produce the steam to generate electricity, the company intends to install a second power station at Labasa,” he said. Daniel encouraged Fiji to become totally energy independent and added that low-cost electricity would attract industries and jobs.

### Malaysia: Feed-in Tariff System Adopted; Geothermal Project Underway in Sabah

The government has approved a plan by Tawau Green Energy Sdn. to develop a geothermal power plant at Apas Kiri in Sabah, Malaysia. Phase 1 will include steamfield development, access roads, a 36-MW power block, and 132kV interconnection to the utility grid. Project completion is expected within 36 months of signing with the local power utility and will be financed through internal and local bank funding and a government grant.

Concurrently, Malaysia has [approved a system of Advanced Renewable Tariffs](#) to develop its renewable energy resources similar to policies enacted by Thailand and Taiwan. The Renewable Energy Bill, which creates the feed-in tariff, as well as the Bill for the Sustainable Energy Development Authority were both passed by the Malaysian House of Representatives and are expected to take effect this summer. The policy includes specific targets for each technology by year, and 3,000 MW New Renewables by 2020.

### New Zealand: Contact to Finance Geothermal Project with \$280M in Shares

Contact Energy, New Zealand’s biggest publicly traded energy company, plans to [sell NZ\\$350 million \(\\$280 million\) in shares to existing holders](#) in efforts to raise funds for geothermal development. The shares, sold at NZ\$5.05 for every nine held will fund the 166-MW Te Mihi project. “We have committed to the construction of Te Mihi because we believe geothermal is the most price-competitive source of new electricity generation for New Zealand,” CEO Dennis Barnes said in the statement.



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

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## **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](mailto: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>.

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## **Employment**



### **New This Week**

#### **Research Geologist/Geophysicist, United States Geological Survey**

The USGS in Menlo Park, California, has an opening for a Research Geologist/Geophysicist to conduct research in support of geothermal energy assessments, with a focus on the structural, geomechanical, thermal, and hydrologic properties of fault-hosted hydrothermal systems. Detailed information on the position can be found at <http://tinyurl.com/USGSGeothermalJob>. Individuals must apply online at <http://www.usajobs.gov/> to receive consideration. For more information about the USGS, visit: <http://www.usgs.gov/ohr/great.html>.

#### **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](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](mailto: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](http://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](mailto: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](http://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](mailto: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](http://www.nrel.gov/employment/job_openings.html).

**Senior Level Assistant Site Manager, Operations and Maintenance**

Contact: [Richard@mrspokane.com](mailto: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](mailto:Shane.stevens@originenergy.com.au) Phone: +61 00 11 73858 0237

**Vice President Geology, Western US**

Please send resumes to [Bstevens@stmassociates.com](mailto:Bstevens@stmassociates.com)

**Geothermal Openings, NREL, Boulder, CO**

Go to [http://www.nrel.gov/employment/job\\_openings.html](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](mailto:andrewmatkovic@carmongroup.com)

**Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID**

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

**Project Manager**

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

**Project Manager Geothermal Exploration, Europe**

Contact: [droberts@penderfinancial.com](mailto:droberts@penderfinancial.com)

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**Requests for Proposals****New This Week****Geothermal Development, Commonwealth of Dominica (June 17)**

Request for Expressions of Interest to Engineer, Procure, Construct and Operate 5-to-10-MW Geothermal Power Plant (Note: The deadline for submission of EOIs has been extended from the 31st of May 2011 until 17th of June 2011).



The Government of the Commonwealth of Dominica intends to proceed for the following services: the construction and operation of a small geothermal plant to provide electricity to the local grid whilst establishing the reaction of the reservoir to exploitation.

The services include:

- the partial or full financing of the drilling at the risk of the investor of 1 full size exploratory geothermal well with the Government of the Commonwealth of Dominica financing the drilling of 2 other exploratory wells;
- the construction of a small, 5 – 10 MW geothermal power plant with the geothermal fluids being re-injected back into the reservoir;
- agreement with the local utility and the Independent Regulatory Commission for the provision of electricity to the local grid.

The Government of the Commonwealth of Dominica now invites companies with the suitable expertise and financial backing to indicate their interest in providing the services. Interested companies must provide information indicating that they are qualified to perform the services (brochures, description of similar assignments in the geothermal industry, experience in project development, experience in power plant operation, availability of appropriate skills among staff, financial capability, etc.). Companies may associate to enhance their qualifications.

The Client will prepare a short list of about 3-6 candidates to be pre-selected on the basis of the expressions of interest received to whom he will send a Request for Proposals to perform the services. In addition to the requested information, candidates should prepare a document indicating the key issues they wish to be addressed in the request for proposal with regard to project development. Expressions of interest must be delivered to the address below by June 17 (extended from 31st May 2011).

Ministry of Public Works, Energy & Ports

Attn: Mr. Jason Timothy

Project Coordinator

Geothermal Project Management Unit

3rd Floor Government Headquarters

Kennedy Avenue, Roseau

Commonwealth of Dominica

Tel: 767-266-3616/7/8

Fax: 767-448-0182

E-mail: [geothermal@dominica.gov.dm](mailto:geothermal@dominica.gov.dm); [pmu.geothermal@gmail.com](mailto:pmu.geothermal@gmail.com)

## Proposal Announcements

### Invitation to Bidding, EEPCO, Consumables for Geothermal Drilling, Ethiopia

The Ethiopian Electric Power Corporation (EEPCO) 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](mailto: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](mailto:asaat@gdc.co.ke) and copy to [pnguqi@gdc.co.ke](mailto:pnguqi@gdc.co.ke)

Any updates on this EOI will be posted on the GDC website: [www.gdc.co.ke/tenders](http://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](mailto: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 (June 24)**

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](mailto:ihoiby@nv.blm.gov).

### **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](mailto: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>

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## **Events**

### **Happening This Week**



### **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](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](http://www.geo-energy.org/events/May2011_ShowcaseForum.aspx). With any questions, please feel free to email Kathy Kent at [kathy@geo-energy.org](mailto:kathy@geo-energy.org). For media credentials, please contact Garret Drexler at 646-695-7042 or [garret@rosengrouppr.com](mailto:garret@rosengrouppr.com).

## **New This Week**

### **Geothermal Research Symposium, Colorado School of Mines (May 23–24)**

*From Colorado School of Mines:* [We are] pleased to announce a two-day joint Geothermal Research Symposium with the National Renewable Energy Laboratory, the Colorado Governor's Energy Office and the NAVY geothermal program on May 23 and 24th, 2011. This is the first geothermal symposium that focuses on research to identify evolving research needs from different stakeholders and to identify innovative technologies and ideas for the development of modern geothermal energy. Following this two-day research symposium, a geothermal field trip is planned by Dr. Stuart Simmons. We especially welcome graduate students and young professionals/academics. There will be a limited amount of scholarship funding available for graduate students. For further information and instructions on abstract submissions visit: [www.mines.edu/Educational\\_Outreach](http://www.mines.edu/Educational_Outreach)

#### Preliminary Agenda

##### *Monday, May 23, 2011*

- 7:30 – 8:30 am Registration/Continental Breakfast
- 8:30 – 9 am Welcome and Opening Announcements
- Stakeholders' Needs: What they want us to do
- 9 – 9:30 am GSHP & Direct Use
- 9:30 –10 am Conventional Hydrothermal Power Generation
- 10 –10:30 am EGS & Non-conventional Geothermal Power Generation
- 10:30 –11 am Support industry
- 11:00 – Noon State and Federal Government
- 12 – 1:30 pm Lunch (provided)
- 1:30 – 3:30 pm Session I: Direct Use
- 3:30 – 3:45 pm Coffee Break
- 3:45 – 5:45 pm Session II: Geothermal Heat Pumps

##### *Tuesday, May 24, 2011*

- 8:15 – 9:00 am Registration/Breakfast/Networking
- 9:00 –11:00 am Session III: Hydrothermal Geothermal Power Generation
- 11 – 1 pm Lunch & Reunion of the Fenton Hill Team
- 1 – 3 pm Session IV: Enhanced Geothermal Systems
- 3 – 3:15 pm Coffee Break

3:15 – 5:15 pm Session V: Non-Conventional Geothermal

5:15 – 5:30 pm Closing

*Wednesday, May 25, 2011*

8 am Geothermal Field Trip: In the western USA we will visit thermal areas, steam fields and power stations in California and Nevada with a focus on understanding the geoscience and engineering of geothermal resources.

## **GEA Events**

### **GEA Team to Power Brita Climate Ride—Donate Now (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](mailto: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](mailto: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](mailto: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](http://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

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**GEOTHERMAL ENERGY WEEKLY**

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

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