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National News



GEA to Hold First Ever National Geothermal Summit in Reno, Nevada

GEA is thrilled to announce the first ever National Geothermal Summit to be held Tuesday, August 16th and Wednesday, August 17th, 2011 at the Grand Sierra Resort and Casino in Reno, NV.

The National Geothermal Summit will be held for GEA members, companies, and individuals in the geothermal industry with industry experts sharing real life approaches to getting geothermal projects in the ground and online. Topics for the Summit include Outlooks for Washington and the Western States, Building New Transmission Projects in the Western States, New Renewable Energy Policy Developments in CA, and Moving Geothermal Forward on Public Lands. Attached is the latest agenda for the Summit for you to see the impressive line-up we

have in store.

There will also be an Expo Hall featuring government agencies, universities and leading geothermal developers from the growing geothermal industry. We are opening the Expo Hall to our members first. To see the floor plan for the Summit please visit: <http://www.geo-energy.org/nationalgeothermalsummit/FloorPlan.aspx>.

The Summit will kick off Tuesday, August 16th at 3pm with a GEA Members Meeting and Elections where GEA staff will present 2011 accomplishments and plans for 2012 and beyond and have Board elections. Following the GEA Members Meeting will be Keynote Presentations by high level invitees and a delicious networking dinner where GEA will give out the first *Annual GEA Honors Awards*. This will be a great evening commencing a great event. Wednesday, the 17th will be a chock full day with Keynote Presentations, two plenary sessions, an Expo, Job Fair, breakout sessions, and end of day closing reception.

The National Geothermal Summit will feature the who's who of the geothermal industry. It is an event not to be missed!

For more information, including the preliminary agenda and registration, visit: <http://www.geo-energy.org/nationalgeothermalsummit/main.aspx>

If you have not yet cast your nominations for the inaugural *GEA Honors* please do so by Friday, July 1st. More information about GEA Honors can be found online at: <http://www.geo-energy.org/GEAHonors.aspx>.

Final 2011 DOE Funding Levels Down Slightly from 2010

Recently released final 2011 full year funding levels for the Department of Energy (DOE) show a decrease in federal funding to the department's Geothermal Technologies Program (GTP). In 2011 GTP will receive \$38 million in funding, a decrease from the 2010 final funding level of \$44 million. The following table compares 2011 final full year funding (in millions of dollars) among DOE's renewable energy programs:

Program	2010	2011	% of 2010 Level
Solar	247	263	106%
Biomass/Biorefinery	220	182	83%
Wind	80	80	100%
Geothermal	44	38	86%
Water	50	30	60%

Agency Plans to Eliminate Red Tape Revealed

An article recently published on E&E's Greenwire summarized a series of possible changes being proposed by various federal agencies in order to eliminate red tape and associated costs. The proposed changes to federal regulations and procedures would impact nearly every industry sector. For example the Department of Energy (DOE) intends to amend its National Environmental Policy Act (NEPA) regulations by adding new categorical exclusions for certain renewable technologies. It has been 15 years since DOE last updated its categorical exclusions, and it is estimated that the proposed rule would eliminate almost \$100 million over 10 years.

The Department of the Interior has also proposed measures to reduce burdens associated with complying with the Endangered Species Act in order to make natural resources more accessible.

To access the article, as well as links to federal agency proposals, go to:

<http://www.eenews.net/Greenwire/2011/05/26/1>

Obama Administration Continues Push for CES

Despite the support from Congress for a national clean energy standard (CES), [the Obama Administration continues to push for the adoption of such a policy](#). In his recent State of the Union address President Obama called for a 80% national CES that would require utilities to provide a specified amount of their electricity from low carbon sources, such as renewables, nuclear technology, or coal with carbon sequestration. While the inclusion of both nuclear and carbon sequestration technologies was intended as a compromise to garner greater political support, support from Congress for a national CES has been limited. Regarding the proposals progress, White House Deputy Assistant for Energy and Climate Policy Heather Zichal said, "Obviously, it's not on the fast timeline we would want it to be on. Still we continue to engage and see interest from both Democrats and Republicans."

Geothermal Provides Majority of Renewable Energy in California and is Poised to Produce More Development Nationwide

In an [article in EnergyBiz Magazine](#) geothermal energy is heralded not only for its significant contribution as a clean energy resource, but also for its greater future potential. According to the article, in 2009 geothermal delivered approximately 13,000 gigawatt-hours of electricity to California's grid, whereas wind and solar delivered 4,949 and 846 gigawatt-gigawatt hours respectively.

While the article recognized geothermal energy's present contribution it also focused on its potential and quoted Peter Asmus, a senior analyst at Pike Research, as saying, "The potential is 60 gigawatts, but we only have 3 gigawatts." Advances in technology will be a key factor in geothermal energy reaching its full potential. Scott McKillip, vice president of facilities and build design at SAIC, is quoted in the article, claiming, "Lower-temperature binary systems have developed over the past three years or so, so that will allow geothermal to spread into more

states. Resources with temperatures above 300 degrees have been developed to date, but the new systems will allow sub-300 degree resources to be opened up.”

The article offered a frank overview of some of the obstacles facing geothermal development. Significant up-front risk, competition with oil and gas for drill rigs and experienced personnel, and long project lead times are presented as potential hindrances to the development of geothermal resources. Additionally, geothermal suffers from a lack of long term policy incentives. Peter Asmus states, “I think geothermal is being impacted disproportionately by the lack of action on carbon.”

Senator Udall Reintroduces Bills Focusing on Energy Efficiency and Creating Jobs

[Senator Mark Udall \(D-CO\) reintroduced four renewable and efficiency bills on Monday.](#) Included among the bills is a measure aiming to increase export competitiveness for small and medium-sized businesses’ energy-efficiency products. The Renewable Energy Market Access Program (REMAP) Act would allow trade associations and state-regional trade groups to work with the Department of Commerce through cooperative agreements to market U.S. products abroad. Other measures included in the accompanying bills include the Electric Consumer Right to Know Act, which calls for providing consumers with timely information regarding their electrical meters; Solar Uniting Neighborhoods (SUN) Act, which would extend a 30-percent tax credit to neighborhood groups and rural co-ops installing solar projects; and the Streamlining Energy Efficiency for Schools Act, which would concentrate information and funding sources for federal energy school efficiency programs in the Department of Energy in order to provide school officials with better access to information.

Company News



WIP Awards CCC Group Consortium Contract for Development of Nevis Geothermal Plant

Press Release – Charlestown, Nevis, May 24, 2011

West Indies Power (WIP) announced today, it has awarded the CCC Group Consortium an Engineering, Procurement, and Construction (EPC) Contract for the development of the Nevis Geothermal Plant . The Consortium is lead by the CCC Group Inc. of San Antonio, Texas and includes Turbo Care Inc (a subsidiary of Siemens Energy Inc.) of Chicopee, Massachusetts; Power Engineers Inc. of Haley, Idaho and Energy & Advanced Control Technologies, Inc. (EACT) of Saint Lucia, West Indies.

The contract is for the engineering, procurement, and construction of a 8.5MW net single flash power plant and related facilities, a 33 kv substation, 8 miles of buried electrical transmission cable between the Spring Hill Geothermal Plant and the existing NEVLEC Prospect Power Station with associated facilities.

The contract has a value of approximately USD\$29MM and work is expected to begin at the Spring Hill, Nevis site in June/July of this year.

Ormat to Resume Development of Mount Spurr Project in Alaska this Summer

[Ormat Technologies is making preparations for field exploration at its Mount Spurr geothermal project](#) in south-central Alaska this summer. Ormat plans to drill a series of test wells to depths of approximately 4,000 ft. to gather data so that it can determine the extent of the geothermal resource prior to drilling commercial size wells in 2012.

Alaska's legislature allocated \$20 million in state funds to assist Ormat in funding the cost of drilling at Mount Spurr. The successful full scale development of the Mount Spurr resource could result in the construction of a 50 MW plant, with the possibility of expansion to 100 MW, and would cost \$220 to \$270 million. Construction financing would be secured by Ormat itself.

Renewable Energy and Climate Change



Distributed Geothermal in California can Add 7% of Supply

The following article was written for publication on wind-works.org by renewable energy industry analyst and author Paul Gipe.

Any opinions expressed in the article are those of the author.

Small, geographically dispersed geothermal power plants could provide 7% of California's electricity supply, according to an analysis of data collected by a consultant to the Golden state.

California recently passed new legislation requiring the state to provide 33% of its electricity from renewable energy and newly elected Governor Jerry Brown signed the bill into law.

Note: This is the first in a series of upcoming articles on geothermal energy and feed-in tariffs.--Paul Gipe, Reykjavik, Iceland

Geothermal energy is a renewable resource using the heat of the earth to generate electricity and heat homes, offices, and factories.

California leads the world in geothermal energy development. However, most of California's geothermal power plants were built in the 1970s and 1980s. There has been very little geothermal development in the state since Jerry Brown was last Governor in the early 1980s.

That could change. Candidate Brown prominently talked of introducing a system of feed-in tariffs to spur renewable energy development in California. Brown specifically mentioned developing as much as 12,000 MW of new renewable generating capacity with feed-in tariffs.

In a study for the California Energy Commission (CEC) in 2008, engineering consultant Black & Veatch examined the renewable resources available to meet California's renewable energy target and the new transmission capacity that would be needed. Included in the consultant's report, [Renewable Energy Transmission Initiative \(RETI\)](#), are detailed estimates of the cost to develop 244 proposed geothermal power plants at sites in California, Nevada, Oregon, Idaho and British Columbia.

Black & Veatch considered projects as small as 8 MW to as large as 1,000 MW.

Distributed Geothermal

While many geothermal projects are connected at transmission voltages, they differ from typical central-station plants. Many individual geothermal projects are relatively small. Of the 244 proposed projects in the RETI database, 185 or three-fourths are less than 20 MW in size. They would, thus, qualify as distributed generation under Governor Jerry Brown's proposed feed-in tariff.

The following analysis arbitrarily sorted the proposed projects into several size categories similar to those found where feed-in tariffs are used to develop geothermal energy.

- <10 MW: 117
- >10 MW<20 MW: 68
- >20 MW<25 MW: 9
- >25 MW<50 MW: 31
- >50 MW<100 MW: 9
- >100 MW<500 MW: 9
- >1000 MW: 2

The bulk of the projects greater than 20 MW are also relatively small. Forty projects, or 16%, fall in the size range from 20 MW to 50 MW. Altogether, 90% of the proposed geothermal projects in the RETI data base are less than 50 MW in size. This is in part artificial and due to state regulations. Power plants less than 50 MW are not regulated by the CEC.

If Brown's proposed feed-in tariff policy included geothermal projects up to 50 MW, it would encompass most of the geothermal projects in the RETI database.

Projects less than 50 MW would account for 40% of all proposed geothermal generating capacity, some 3,300 MW. These plants would produce 40% of all potential geothermal generation, about 22 TWh per year (7% of current supply) or 1.7 times more electricity than at present.

Geothermal plants in California currently generate 13 TWh per year of the nearly 300 TWh consumed annually.

What Geothermal Tariffs Are Needed

The consultants estimated the cost of electricity from the plants under several conditions: Independent Power Producers, municipal utilities, and if the generation was delivered from Canada or Mexico. Within the category of Independent Power Producers (IPP), cost estimates were further subdivided into the cost for IPPs without any federal subsidies, the cost for IPPs with Production Tax Credits (PTC), and the cost for IPPs with Investment Tax Credits (ITC).

This analysis considered only IPPs and for only two conditions: without federal subsidies and with the ITC, a federal tax subsidy.

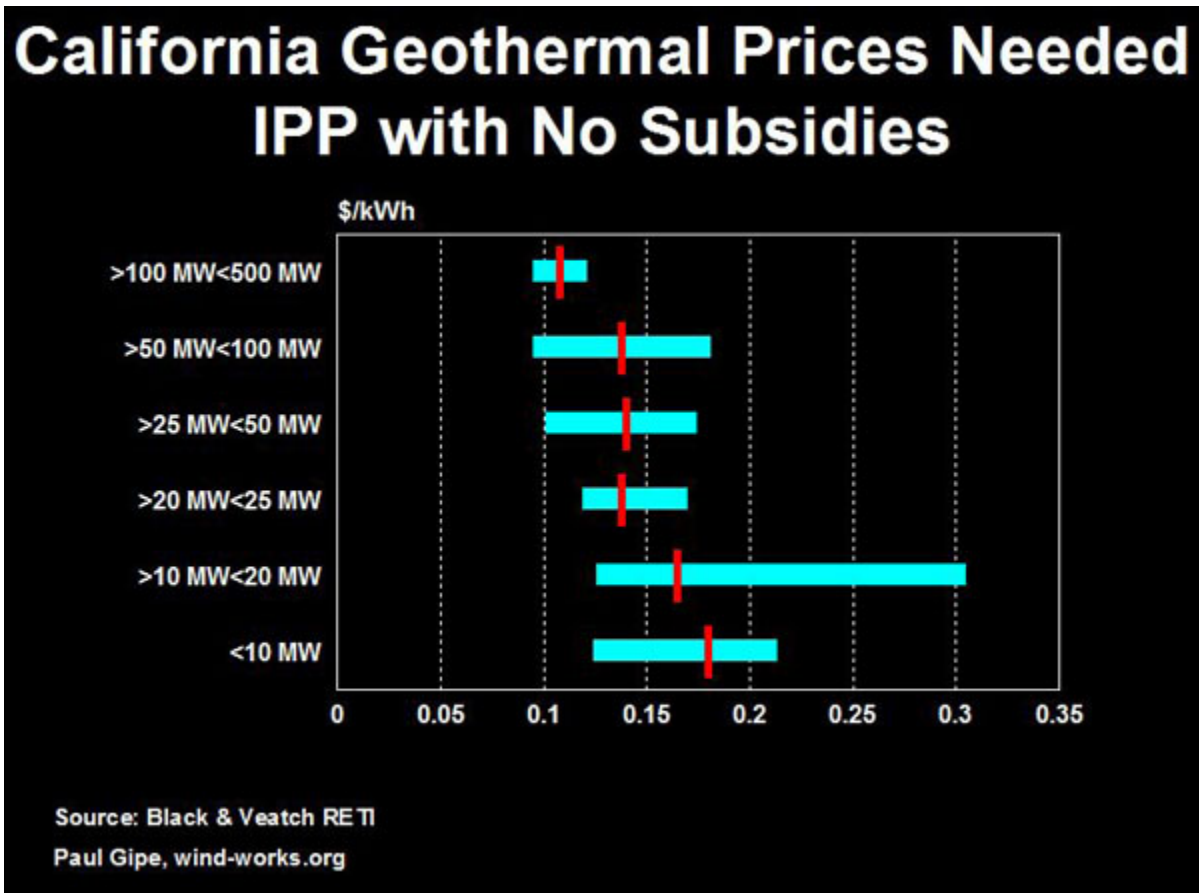
While federal investment subsidies currently exist in the form of the PTC and ITC for many renewable energy technologies, their future is uncertain. The federal government's growing budget deficit, the cost-cutting mood of Congress, and threats to the bond rating on US federal debt suggests that tax subsidies may not be a secure source of funding. Because geothermal projects take several years to complete, investors are wary of financing projects when the future of tax credits or other "incentives" is questionable.

Geothermal feed-in tariffs worldwide vary from as low as \$0.10/kWh for a 20-year contract in Spain to as much \$0.40/kWh for a 20-year contract in Switzerland.

Black & Veatch did not specifically evaluate the feed-in tariffs that would be necessary to fully pay for geothermal generation plus sufficient profit to overcome the risk of developing what is inherently a risky resource.

Feed-in tariffs are typically determined on the cost of generation plus a reasonable profit. Cost of energy studies--because of their different objectives--do not necessarily reach the same conclusions about price. However, Black & Veatch's study is the most detailed source of data in the public domain on geothermal energy and its cost and the study can serve as a proxy for what geothermal tariffs may work in the California context.

For IPP projects without access to federal subsidies, tariffs for geothermal projects less than 20 MW in California would need to be comparable to those in Europe: from a low of \$0.13/kWh to as much as \$0.30/kWh. Tariffs for projects from 20 MW to 50 MW would vary from a low of \$0.10/kWh to a high of \$0.18/kWh.

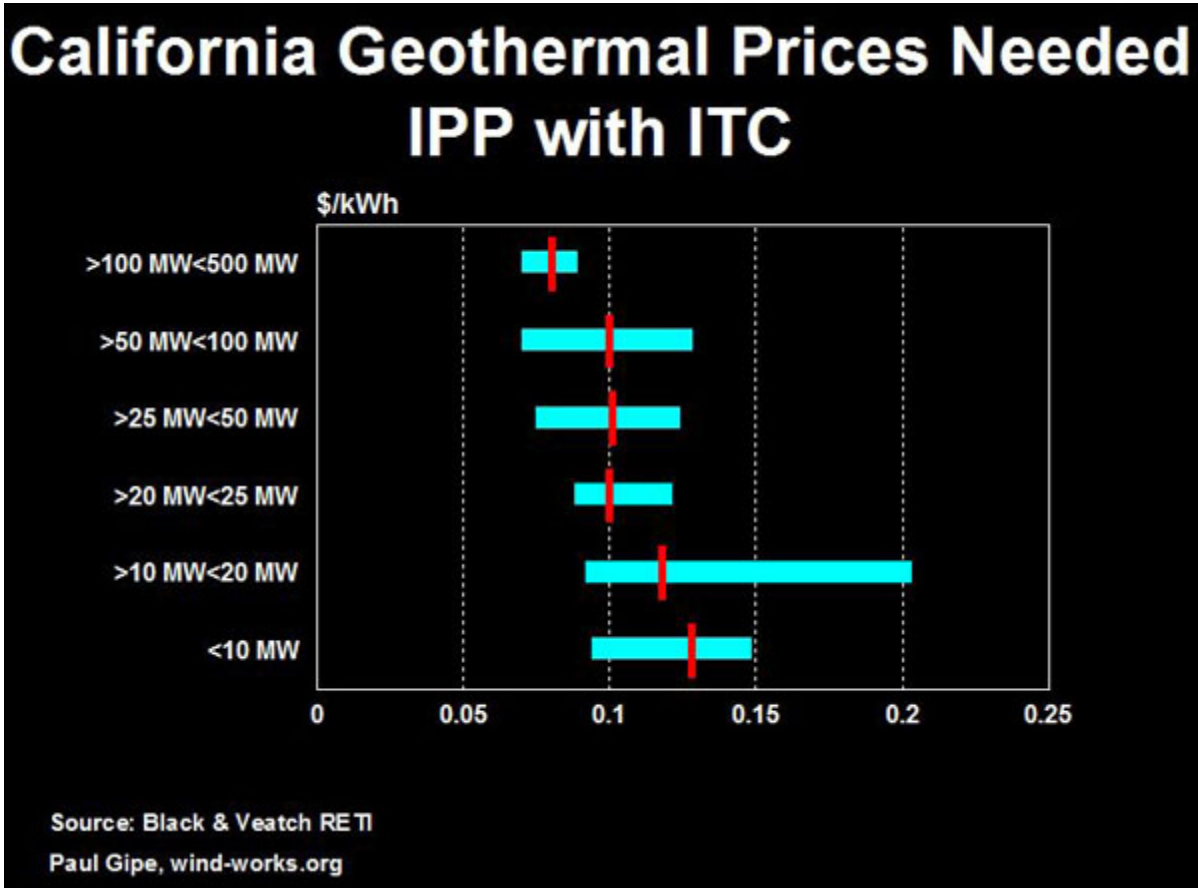


Projects that could be developed quickly and take advantage of the federal ITC while it remains available would be significantly less expensive. For projects less than 20 MW, tariffs would vary from a low of about \$0.09/kWh to a high of \$0.20/kWh. Projects from 20 MW to 50 MW in size would require tariffs in the range from a low of \$0.08/kWh to \$0.13/kWh

The price necessary for geothermal development in California is comparable to that of other renewable resources. Estimates of the cost of geothermal are comparable to those of wind energy, but geothermal costs less than that for generation from solar photovoltaics.

In contrast to variable renewable resources like wind and solar, geothermal provides base load generation. It is thus a natural compliment to the development of California's abundant wind and solar resources.

California could add 7% of new renewable generation to its supply, and compliment development of its variable renewable resources by including geothermal energy in Governor Brown's as yet unannounced feed-in tariff policy.



Australia's Climate Commission Stresses Urgent Need to Reduce Emissions

A [report recently published by Australia's Climate Commission](#) seeks to reaffirm climate change as a position which is widely accepted and well understood by the scientific community. The Commission's report also emphasizes the importance of reducing greenhouse gas (GHG) emissions from peaking levels as soon as possible. The report's lead author, Will Steffen, offered his opinion on reducing GHG levels, saying that, "If you leave the peaking year until 2020, you are going to have to reduce emissions at 9 percent a year after that. I think this is almost impossible to do unless you put the economy on a war footing. The earlier you peak, the more affordable the reduction. It shows how crucial this decade really is. Even if we only make a reduction of 5 percent by 2020, our investment decisions in terms of renewable energy and in transport today are critical."

EDC to Register Geothermal Power Plant for Carbon Credits under CDM

The Philippines' Energy Development Corporation ([EDC](#)) is seeking to register the rehabilitated Bac-Man [geothermal power plant complex for the Clean Development Mechanism](#) (CDM) under the United Nations Framework Convention on Climate Change (UNFCCC).

The Bac-Man geothermal power plant complex is due to begin regular operations shortly after being out of operation for nearly three years, as the result of being damaged by severe typhoons. EDC has made extensive improvements to the Bac-Man geothermal system, including advanced environmental mitigating measures, and the CDM will give certified emission reduction certificates equivalent to the carbon dioxide reduced by the geothermal plant to EDC. EDC's Supervisor, Eduardo Jimenez, stated that, "The newly rehabilitated BGI power plant complex is an assurance to contribute towards the Philippine sustainable development policy on clean environment and reduce global greenhouse gas emissions. This consultation meeting will also validate the project's purpose for CDM registration."

State News



California's Investor Owned Utilities Issue 2011 RPS Solicitations

In April 2011 California's Renewable Portfolio Standard (RPS) was signed into law. The ambitious RPS calls for retail sellers of electricity as well as local publicly owned utilities to provide 33% of their electricity from renewable resources. As a result California's investor owned utilities (IOUs) – Pacific Gas & Electric (PG&E), San Diego Gas & Electric (SDG&E), and Southern California Edison (SCE) – are issuing Requests for Offer (RFOs) for additional renewable energy capacity. The IOU's recently issued their final procurement plans to the California Public Utilities Commission (CPUC) on May 4, 2011. Each of the IOUs will hold a bidders conference to outline their respective procurement plans and take questions from potential bidders.

More information and links to each IOUs 2011 RFO website can be found in the Notices section of this newsletter.

California Council on Science and Technology Releases Report Mapping the States Energy Future to 2050

A report being released by the California Council on Science and Technology (CCST) examines the necessary steps that must be taken for the state to reach its 80% percent reduction below 1990 emissions levels by 2050. According to the report drastic changes to the states energy infrastructure would need to be achieved for the emissions reduction goal to be realized. For example, California's electricity generating capacity will have to be replaced and then doubled using near zero emissions technologies.

In order to reach at least a 60% reduction in emissions from 1990 levels, the report recommends a multi-faceted approach with focus in four areas:

- Aggressive efficiency measures for buildings, industry and transportation to reduce the need for both electricity and fuel.
- Electrification of transportation and heat wherever technically feasible to avoid fossil fuel use as much as possible.

- Developing emission-free electricity production with some combination of renewable energy, nuclear power and fossil fuel accompanied by underground storage of the carbon dioxide emissions, while at the same time nearly doubling electricity production.
- Finding supplies of low-carbon fuel to supply transportation and heat use which cannot be electrified, such as for airplanes and heavy duty trucks, and high quality heat in industry.

To access the complete report go to <http://www.ccst.us/publications/2011/2011energy.php>

Court Delay of CA Cap-and-Trade Program Not Expected to Delay Other Regulations

A [court decision last week to delay implementing the California Air Resources Board's \(CARB\) greenhouse gas trading program](#) will not affect the implementation of the majority of A.B. 32's other regulations. San Francisco County Superior Court Judge Ernest Goldsmith ruled on Friday that CARB had not sufficiently explored alternatives to the cap-and-trade mechanism, violating a provision in the California Environmental Quality Act requiring state agencies to adequately analyze environmental impacts of policies and policy alternatives. The judge sided with the plaintiff, Center on Race, Poverty and the Environment, in determining that CARB's December 2008 "functionally equivalent document" – an analysis of potentially adverse environmental impacts associated with CARB's Scoping Plan, of which the cap-and-trade program is a major component – did not sufficiently back up CARB's decision to pursue the cap-and-trade system over other GHG reduction mechanisms. CARB will be required to conduct an environmental analysis covering alternatives and subsequently defend the cap- and-trade system over alternatives. The implementation of the majority of A.B. 32's 69 regulations, including provisions to bolster clean cars, renewable, and energy efficiency and to implement a low-carbon fuel standard and reduce emissions from ships and trucks, though, will be unaffected by this ruling. The court's decision also does not preclude CARB from pursuing cap and trade altogether. CARB will, however, be up against an internal October 28 deadline to finalize the cap-and-trade program, which, if missed, will force CARB to reinstate the approval process from the beginning. According to CARB spokesman Stanley Young, CARB will appeal the decision, but is also preparing to quickly file a revised alternatives analysis.

International News

Americas

Argentina: Concept Study Commences for Accelerated 15 MW Plant

Press Release [\[Full Story\]](#) – May 20, 2011

Earth Heat Resources Limited ('Earth Heat' or 'the Company') is pleased to advise that it has commenced the first phase concept study for an accelerated 15MW geothermal plant at the Company's Copahue Project in Argentina.



The Company has engaged leading engineering firm Sinclair Knight Merz (“SKM”), to advise and assist in the design and construction of the geothermal plant. . This plant size is well within the level of relative certainty ascribed to the existing drilling and reservoir information at Copahue, therefore serving as a 'fast track' target for Earth Heat. Given the substantial resource estimated at up to 264MWe, (total aggregated resource estimate; see announcement released on 18.5.11), proper consideration of future expansions will be included as part of the study.

The feasibility study will be split into two successive phases:

- Phase A for a concept screening to agree on a viable technical solution (location, conversion technology, implementation, first pass basic project economics). These services are expected to be provided within the next two months.
- Phase B with a feasibility detailing the agreed concept (engineering, costs, economics, implementation program, environmental etc) and integrating other project factors such as environmental, regulatory framework, electrical interconnection feed in tariff etc. Earth Heat intends to use this feasibility study to secure the financing needed to implement the development required to reach production from this first project.

Pacific

Indonesia: State Geothermal Firm Requires Investment for Geothermal Development

Indonesia's state run geothermal firm [PT Geo Dipa Energy affirmed it needed up to \\$600 million in additional capital](#) to move forward with two geothermal projects in East and West Java. It is estimated that each geothermal field has a capacity of 400 MW each.

Geo Dipa's President Director, Praktimia Semiawan, said, “We want to construct two geothermal power plants, one in Dieng and one in Patuha. Each power plant would costs around \$300 million, so we need \$600 million in additional capital.”

New Zealand: New Zealand to Join IPGT

New Zealand announced its intentions on Tuesday [to join the International Partnership for Geothermal Technology \(IPGT\)](#). IPGT was established in 2008 as a consortium of geothermal industry experts from the U.S. Australia, Iceland, and Switzerland to advance geothermal technologies.

New Zealand's Minister of Science and Innovation, Wayne Mapp, stated, “This is an exciting opportunity. Geothermal energy is one of New Zealand's most important renewable energy resources. Geothermal electricity generation has grown to 13 percent of total generation in 2010. There are many benefits to membership of this elite grouping. New Zealand has much to gain from the extra opportunities for geothermal research collaboration

and involvement in major international research programmes. The IPGT in turn has much to gain from the expertise and capability of New Zealand scientists and industry,"

New Zealand: Deep Drilling Project to Utilize Super Hot Geothermal Fluids

[Scientists intend to drill a borehole to depths of 4 km or more in the Taupo Volcanic Zone](#) in New Zealand's North Island. The purpose of the project is to test the feasibility of utilizing geothermal fluids at extremely high temperatures to generate electricity.

Estimates by experts from New Zealand's state-run Geothermal and Nuclear Sciences Institute (GNS Science) indicate that there is enough geothermal energy in the Taupo Volcanic Zone to meet the electricity needs of the entire country. Typically, geothermal boreholes do not exceed depths of 3 km, but by drilling to depths around 5 km scientists hope to tap higher temperature fluids to produce more geothermal energy. GNS Science's senior geothermal scientist Dr. Greg Bignall stated, "Scientists conservatively estimate that deep geothermal resources in the central North Island could provide 10,000 megawatts for over 100 years for New Zealand. This would satisfy all of New Zealand's current electricity demand, which is generated from a capacity of 9,000 megawatts."

Philippines: IFC Provides \$75 million Loan to Energy Development Corp.

The International Finance Corporation ([IFC](#)) has signed a [\\$75 million loan with Energy Development Corp. \(EDC\)](#) to help fund the latter's planned power projects. EDC claimed that the 15 year loan facility would help them in the construction of renewable energy projects that will generate 230 MW. EDC plans to become the world's number one geothermal developer, a goal which it estimates will require approximately \$1 billion of investment over the next 5 years to construct Greenfield geothermal power plants.

Among the renewable energy projects EDC intends to complete by 2015 are the 150-MW Bacman geothermal plant and an 86-MW wind farm in 2012, the 40-MW Tanawon and 20-MW Nasulo geothermal projects in 2013, the 50 MW Mindanao 3 geothermal project in 2014, and the Rangas and Kayabon geothermal projects, 40 MW each, in 2015.

Philippines: State to Resume Sale of Geothermal Assets in 3rd Quarter of 2011

Philippine Energy Secretary Jose Rene D. Almendras stated that the program for [bidding on government owned power assets would resume in July of this year](#). Although its auction is being stalled by a pending bill seeking the deferment of its auction, it is expected that the 640-MW Unified Leyte geothermal complex will be sold off in the 3rd quarter of this year.

Geothermal Heat Pumps and Direct Use



Geothermal Heat Pump Utilization Increasing in Alaska

A [study conducted by the University of Alaska Anchorage's Institute of Social and Economic Research](#) and released Monday demonstrated an increased use of ground-source heat pumps (GSHP) in the state, due in part to the introduction of new heat pump designs better suited for cooler climates with typically lower ground temperatures. The report, which looked at Alaska's energy statistics from 1960-2008, noted that the combination new GSHP designs and higher fuel costs may make GSHPs more viable in the Alaskan market. Commercial GSHPs have already been recently installed at the Juneau Airport and Juneau Aquatic Center.



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

Notices



New This Week

Department of Commerce Seeks to Promote U.S. Geothermal Exports

As part of its efforts to better serve a wide array of U.S. industries and sectors, the Department of Commerce's Advocacy Center is marketing its services to U.S. renewable energy companies. Since many geothermal energy projects have significant government involvement (via financing, tax or tariff reductions, or regulatory approval mechanisms), diplomatic support from the U.S. Government can be essential in ensuring U.S. companies have every opportunity to participate. U.S.-based geothermal companies seeking to compete in foreign, public-sector tenders are therefore encouraged to contact the Advocacy Center to learn more about export promotion and advocacy services.

Mission

The mission of the Advocacy Center is to coordinate U.S. Government (USG) resources in order to level the playing field on behalf of U.S. business interests as they compete against foreign firms for specific international contract of other U.S. export opportunities. Since its creation in 1993, the Advocacy Center has helped hundreds of U.S. companies – small, medium, and large enterprises in various industry sectors – win government contracts across the globe.

Why we Advocate

The principal reasons for USG advocacy are to:

- Promote U.S. exports, create and retain U.S. jobs, and increase global market share for U.S. businesses;
- Counter foreign government advocacy and political pressure;
- Encourage transparency, promote fair treatment of U.S. companies and address bribery and corruption in tender processes

Advocacy assistance can also help to focus foreign decision makers on the merit of U.S. technology and capabilities, in both commercial and defense projects.

How we Advocate

USG advocacy assistance varies but typically involves the engagement of high-level USG officials with overseas governments or government owned corporations. USG advocacy ranges from U.S. Embassy and Consulate assistance to Sub-Cabinet and Cabinet messages delivered through a variety of channels. The Advocacy Center also works with Ex-Im Bank, the U.S. Trade and Development Agency and the Overseas Private Investment Corporation to marshal USG financial assistance, where appropriate, in support of bids by qualified U.S. companies. In addition, the Advocacy Center has liaisons to five Multilateral Development Banks to assist U.S. firms and to advocate on their behalf when they compete for bank-funded tenders.

The Advocacy Center focus almost exclusively on international tenders that involve foreign government decision makers and does not typically become involved in private sector commercial transactions. The Advocacy Center does not engage in policy advocacy. The Advocacy Center can best support a U.S. exporter when the details of a particular opportunity are clearly established and sufficient time remains to develop and implement an effective strategy.

How to Request Advocacy

Companies interested in requesting advocacy assistance are required to submit an Advocacy Questionnaire and Anti Bribery Agreement. Once a companies request has been determined to be in the national interest, the Advocacy Center will work with relevant USG agencies, the company, and the bidder of record, if applicable, to devise and implement an appropriate advocacy strategy.

To obtain and Questionnaire and Anti Bribery Agreement, or to learn more about how the Advocacy Center helps U.S. companies compete and win in foreign markets, visit www.export.gov/Advocacy

IPGT Seeking Industry Input on Series of White Papers

The International Partnership for Geothermal Technology (IPGT) is a forum for government and industry leaders to coordinate their efforts. Partners (currently Australia, Iceland, Switzerland and the United States) share information on results and best practices to avoid blind alleys, limit unnecessary duplication, and efficiently

accelerate the development of geothermal technologies.

The IPGT Stimulation Procedures, Reservoir Modeling and Zonal Isolation/Packers Working Groups have prepared draft white papers in order to outline needs and relevant issues for advanced geothermal systems. These papers define the current state of the art, identify technology needs and will help the IPGT determine critical R&D gaps.

The IPGT now seeks your input on these topics. Please follow the links below to access the draft white papers and forms where you can submit your comments. Please feel free to distribute this information to others in your organization or to those who you feel would be interested.

These papers will be available for external review until May 30, 2011. After the review period, the papers will be revised and re-posted on the website as references.

Please follow the links below to view and comment on the white papers:

http://internationalgeothermal.org/Working_Groups/Stimulation_Procedures.html

http://internationalgeothermal.org/Working_Groups/Modeling.html

http://internationalgeothermal.org/Working_Groups/Zonal_Isolation.html

IPGT Background

Representatives from Australia, Iceland and the United States signed the Charter Agreement for the International Partnership for Geothermal Technology on August 28, 2008 in Keflavik, Iceland. After submitting an application to the Steering Committee and being invited to join the IPGT, Switzerland signed the IPGT Charter on October 6, 2010 in Reykjavik, Iceland.

In order to address critical technology needs, seven working groups were established around high-priority topic areas. These areas include: Lower Cost Drilling, Zonal Isolation and Packers, High Temperature Tools, Stimulation Procedures, Reservoir Modeling, Exploration Technologies, and Induced Seismicity. Working groups are led by four conveners, one from each IPGT country.

For more information on the IPGT, please see the website: <http://internationalgeothermal.org/>

Snohomish County Public Utility District Soliciting Geothermal Exploration Proposals

The Board of Commissioners of Public Utility District No. 1 of Snohomish County will receive and open sealed proposals for the following work:

Request for Proposal No. 1292

PWC – SLIM DIAMETER GEOTHERMAL EXPLORATION WELL DRILLING

at the District office of Contracts/Purchasing, 1802 - 75th Street SW, Everett, Washington, on Wednesday, the 8th day of June, 2011, at 2:00 p.m. (Local Time). Address proposals to P.O. Box 1107, Everett, Washington 98206-1107. Proposals received after this time will not be considered. The bid opening is public and all proposals will be read aloud. Each bid shall be accompanied by bid security in the amount of 5 percent (5%) of the total amount bid, excluding tax.

This project is to drill a new approximately 5,000 foot deep slim-diameter vertical well at the Garland Mineral Springs project site for resource characterization and production of geothermal fluids. The well is expected to be a minimum of 4,000 feet deep, and as deep as 6,000 feet, depending on geologic conditions. The well will be drilled from a new drilling pad, to be constructed within the project boundary. To provide water for project purposes, the Contractor shall drill a water supply well near the project site. The project is located at Garland Mineral Springs, approximately 12 miles north of the town of Skykomish, Washington, in Snohomish County.

There will be a pre-bid meeting on Thursday, May 26, 2011, at 9 a.m. at the District's Electric Building Headquarters in Room TC1-A, located at 2320 California Street, Everett, Washington, 98201. A site showing will be conducted immediately following the pre-bid meeting.

This Notice to Bidders, the Planholders List, Addenda, Bid Responses, and Award Recommendation are available for viewing on the District's website at www.snopud.com. For more information concerning this work, please call: (425) 783-5500 or E-mail us at bids@snopud.com.

The District encourages minority and women's business enterprises to request these contract documents and to bid on this work.

PUBLIC UTILITY DISTRICT NO. 1
OF SNOHOMISH COUNTY
BOARD OF COMMISSIONERS
by STEVE KLEIN

GENERAL MANAGER

DATE: May 18, 2011

PUBLISHED: May 20, 2011

Southern California Edison Solicitation for Renewables

Southern California Edison (SCE) has announced that it is seeking proposals to expand the capacity of its renewable energy portfolio. SCE will hold a proposal conference for interested parties on May 26. Renewable energy project proposals are due to SCE by June 27 and the utility plans to submit completed contracts to the California Public Utilities Commission (CPUC) for approval by mid-2012.

To see SCE's 2011 RFP Schedule and related information go to:

<http://www.sce.com/EnergyProcurement/renewables/2011-request-for-proposal.htm?from=renewrfp>

Pacific Gas & Electric Solicitation for Renewables

Pacific Gas and Electric (PG&E) is seeking capacity from new renewable energy projects and renewable energy credits. Additionally, PG&E is soliciting ownership offers, including build-own-transfer arrangements, and sites for development. PG&E's deadline for the submission of proposals is June 15, and it plans to select a short list of candidates by August 15. The date for the submission final agreements to the CPUC has not yet been determined by PG&E.

For more information on PG&E's 2011 RFO go to:

<http://www.pge.com/b2b/energysupply/wholesaleelectricssuppliersolicitation/renewables2011/index.shtml>

San Diego Gas & Electric Solicitation for Renewables

In order to expand its renewable energy portfolio San Diego Gas & Electric (SDG&E) is seeking project proposals from renewable energy developers. SDG&E is seeking proposals including a power purchase agreement of up to 30 years, with deliveries beginning between 2011 and 2015. SDG&E is especially interested in proposals that can help it meet near term renewable power needs in 2011, 2012, and 2013. Bidders conferences will be held by SDG&E on June 2 and June 8. The deadline to submit questions is July 1. The closing date is July 11.

For more information on SDG&E's RFO go to:

<http://www.sdge.com/documents/rfo/renewable2011/2011RFODocument.pdf>

Current Notices

Funding Opportunity: Technology Advancement for Rapid Development of Geothermal Resources in the U.S.

From Office of Energy Efficiency and Renewable Energy (DOE) — In early June 2011, the U.S. Department of Energy's Geothermal Technologies Program (GTP) intends to issue a Funding Opportunity Announcement to expand its partnership with the geothermal community on geothermal systems research and development throughout the United States in order to support GTP's goal of lowering the cost of geothermal energy to 6 ¢/kWh. This Notice of Intent is designed to provide an opportunity for potential applicants to begin developing partnerships and begin the process of gathering data to prepare their application.

GTP's goal is to address the high exploration and drilling risks and costs for geothermal development and key technical barriers for enhanced geothermal systems (EGS) in reservoir creation and sustainability. GTP hopes to achieve this goal by obtaining ideas to advance current drilling, reservoir engineering, and characterization technologies in order to identify and develop sustainable reservoirs at lower cost in the following Topic Areas:

- Advanced Exploratory Drilling Technologies
- Advanced Well Completion Technologies
- Zonal Isolation
- Observation Tools and Data Collection System for Reservoir Stimulation
- Geophysical Exploration Technologies
- Geochemistry/Rock-Fluid Interactions

For more information, see the [notice of intent](#) at FedConnect.

Correction to Notice, Nevada Geothermal Lease Sale Land Nominations

From Branch of Minerals Adjudication, BLM — On March 8, 2011, a Notice of Nevada Geothermal Lease Sale Land Nominations (Notice) was posted announcing acceptance of nominations of lands for competitive geothermal leasing for the geothermal lease sale tentatively scheduled for January 24, 2012. The non refundable filing fee for geothermal nominations reflected in the Notice is changed to comply with the Fiscal Year 2011 Processing and Filing Fee Table contained in 43 CFR §3000.12. The change is noted below in bold.

Each nomination must be submitted with a nonrefundable filing fee of \$105 per nomination plus **\$0.11** per acre of lands nominated. If a land parcel consists of fractional acreage, please round the land acres up to the nearest whole acre. 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 the next sale.

If you have any questions regarding this notice, please call Irene Hoiby at (775) 861-6641; facsimile at 775-861-6710; write to the attention of NV923 .i at the address on this letterhead; or send electronic mail to ihoiby@nv.blm.gov.

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 thrilled to be giving away our first ever GEA Honors Awards! "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

The above awards will be given to one company for each award. 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.

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>.

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.

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

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>

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.

Geothermal Openings, NREL, Boulder, CO

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

Requests for Proposals

Proposal Announcements



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; pmu.geothermal@gmail.com

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 (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.

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



New This Week

U.S. Government to Hold Webinar on Geothermal Opportunities in Indonesia

Indonesia is estimated to have approximately 40% of the world's geothermal energy reserves. By 2012, Indonesia expects to install 1,030 MW of additional geothermal capacity, and it is targeting 9,500 MW of installed geothermal capacity by 2025. U.S. companies have the expertise and technologies to help Indonesia meet this target. Join Commerce, USTDA, EXIM Bank, and the U.S. Embassy in Indonesia for a June 2 webinar on Indonesia's geothermal market and specific export opportunities. Learn how your company can take advantage of the upcoming reverse trade mission bringing Indonesian decision makers to the United States.

Register here: http://www.export.gov/eac/show_detail_trade_events.asp?EventID=32199&InputType=EVENT

Time: 10:00 – 11:30 am (EST)/7:00 – 8:30 am (PST)

Agenda

10:00 am **Jen Derstine, Renewable Energy Specialist – U.S. Department of Commerce**

- Ms. Derstine will briefly introduce the webinar and speakers and provide a short overview of the U.S. Renewable Energy and Energy Efficiency Export Initiative (export.gov/reeee/re4i), which aims to facilitate private sector efforts to significantly increase U.S. exports in this sector.

10:05 am Shalizeh Nadjmi, Indonesia Desk Officer – U.S. Department of Commerce

- Ms. Nadjmi will provide a short country overview of Indonesia with examples of recent export success stories.

10:15 am Pinsuda Alexander, Country Manager – U.S. Trade and Development Agency

- Ms. Alexander will discuss USTDA's geothermal program and review the resources offered by USTDA to facilitate U.S. exports.

10:25 am Guy Nelson, Technical Expert – BCS, Inc. (USTDA Contractor)

- Mr. Nelson will report on the current geothermal development climate in Indonesia and discuss BCS, Inc.'s TDA-funded five-week training program, which targeted provincial energy officials responsible for the tendering and development of geothermal resources. He will also provide information on opportunities for U.S. companies to participate in the upcoming reverse trade mission, comprised of senior geothermal energy officials from Indonesia.

10:40 am Ted Saeger/Anasia Silviati – U.S. Embassy, Indonesia

- Mr. Saeger and Ms. Silviati will report on the recent Energy Investment Roundtable held in Jakarta and review the resources offered by the U.S. Embassy and the U.S. & Foreign Commercial Service to help U.S. businesses identify, develop and sustain exports or investment in Indonesia.

10:50 am James Lewis, Senior Business Development Specialist – Export-Import Bank

- Mr. Lewis will provide an overview of the export finance services available to U.S. geothermal sector exporters.

11:00 am 30 minute Q&A

GEA Events

GEA to Hold First Ever National Geothermal Summit in Reno, Nevada

GEA will hold its first ever National Geothermal Summit on Tuesday, August 16th and Wednesday, August 17th, 2011 at the Grand Sierra Resort and Casino in Reno, NV. To see a complete description of the event go to the

complete story under the *National News* section of this newsletter

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

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

Renewable Energy and Energy Efficiency Advisory Committee Meeting, NYC (May 31, June 1)

The US Department of Commerce's *Renewable Energy and Energy Efficiency Advisory Committee's* next meeting is scheduled to take place in Manhattan, New York from 1:00-6:00pm on Tuesday, May 31 at Citigroup and from 8:00am-3:30pm on Wednesday, June 1 at Skadden, Arps, Slate, Meagher, and Flom.

The half-day meeting on May 31 will consist of presentations and input from the financial sector, and the Meeting June 1st is a full business meeting of the Committee. For information on the Committee, go to:

http://export.gov/reee/eg_main_023040.asp or contact Brian O'Hanlon (Brian.OHanlon@trade.gov)

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

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

Please note that this year there is also a half-day '**Geothermal 101**' short course, **Monday, June 13, 1- 5 pm** for people newer to the industry. Continuing Education Credits will be given: 8 CECs for the conference and 3 CECs for the Geothermal 101 short course. For questions, please contact Cathy Chickering at 214-768-1510 (catherine@smu.edu) or Maria Richards at 214-768-1975 (mrichard@smu.edu).

14th Annual Congressional Renewable Energy & Energy Efficiency EXPO + Forum, Sustainable Energy Coalition, Washington DC (June 16)

From Sustainable Energy Coalition — Efficiency + Renewables = Economic & National Security! On June 16, the Sustainable Energy Coalition - in cooperation with Members of the U.S. House of Representatives and U.S. Senate Renewable Energy & Energy Efficiency Caucuses - will host the 14th annual Congressional Renewable Energy & Energy Efficiency EXPO + Forum.

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

As Congress, the Administration, the business community, environmental advocates, and American voters search for options to stimulate the economy and "green jobs," as well as address issues of national security, higher energy costs, increased reliance on energy imports, and the environmental threats associated with energy consumption, the EXPO will help address the role that sustainable energy technologies might play. This will include not only the technical aspects of renewable energy and energy-efficient technologies but also related

issues such as economics, jobs potential, environmental benefits, current and near-term market potential, model programs in the public and private sectors, and institutional, financial and legal barriers.

The EXPO is free, open to the public, and no RSVPs are required.

When

Thursday, June 16, 2011

9:30 am - 4:30 pm (exhibits open for viewing)

11:30 am – presentations by Members of Congress (to be announced)

9:30 - 4:30 pm – Administration (see list to-date below), exhibitor speakers (to be announced)

Cannon House Office Building - Caucus Room, U.S. House of Representatives: Independence Avenue and New Jersey Avenue SE; Washington, DC

For More Information

Contact Ken Bossong, Sustainable Energy Coalition*

301-270-6477 x.11; kbossong614@yahoo.com

*Founded in 1992, the Sustainable Energy Coalition is a coalition of 22 national business, environmental, and energy policy organizations supporting aggressive development of renewable energy and energy efficient technologies.

Speakers Confirmed to Date

Heather Zichal, Deputy Assistant to the President for Energy and Climate Change

John R. Norris, Commissioner - Federal Energy Regulatory Commission

Philip D. Moeller, Commissioner - Federal Energy Regulatory Commission

Henry Kelly, DOE Acting Assistant Secretary for Energy Efficiency & Renewable Energy

Exhibitors Confirmed to Date

Abengoa Solar, Advanced Biofuels Association, Advanced Biofuels USA, AFC First Financial Corporation, American Biogas Council, American Council On Renewable Energy/Biomass Coordinating Council/LACORE, American Wind Energy Association, Beacon Power, Bob Lawrence & Associates, Business Council for Sustainable Energy, Continuum Energy Solutions, Demand Response & Smart-Grid Coalition, Dialight Corporation, Enervation Lighting, Environmental & Energy Study Institute, EPA's ENERGY STAR Program, Fuel Cell & Hydrogen Energy Association, Fuel Cells 2000, Geothermal Energy Association, Geothermal Exchange Organization, GHD Inc., Harmonics Limited, Hearth & Home Technologies, Maryland Energy & Sustainability Cooperative, Metropolitan Building Consulting Group, Mid-Atlantic Passive House Alliance, National Biodiesel Board, National Hydropower Association, National Renewable Energy Laboratory, Ocean Power Technologies, Inc., Ocean Renewable Energy Coalition, Oerlikon Solar, Resolute Marine Energy, Inc., Solar Energy Industries Association, Solar Energy World, Solar Solution LLC, Star Island Bahamas, Sunoptics High Performance

Prismatic Skylights, The Stella Group Ltd., U.S. Clean Heat & Power Association, Viridity Energy, Inc., Water Management

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>

XIX Annual Congress of the Mexican Geothermal Association (September 22–23)

XIX Annual Congress of the Mexican Geothermal Association (AGM)

Los Humeros, Pue., Mexico, 22-23 September 2011

<http://www.geotermia.org.mx>

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

GEOTHERMAL ENERGY WEEKLY

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

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