



This Week
June 24, 2011

National News..... 3

- Energy Subcommittee Hears Testimony on Need for Streamlining Geothermal Exploration Activities..... 3
- First-Ever GEA National Geothermal Summit to Bring Together Industry on Policy and Permitting 4
- DOE Awards \$11 Million to Advanced Innovative Geothermal Energy Technologies 5

Company News..... 7

- GEA: Association Applauds Congressional Focus on Development of Geothermal Energy 7
- Mustang Geothermal: Company Enters Into Letter of Intent for International Financing 8
- Ormat Technologies: BOT Agreement Awarded for 45 MW New Zealand Geothermal Plant..... 8
- US Geothermal: Production Wells Complete on Neal Hot Springs 9

Renewable Energy and Climate Change..... 9

- Republicans Seek to Swap Sliced Tax Breaks for Lower Tax Rates 9

State News 10

- California: CEC Holds Workshop on PIER Program Funding 10

International News 10

- Geothermal Feed-in Tariffs Worldwide 10
- Americas 14
 - Nevis: Nevis Geothermal Project Moving Forward 14
- Pacific/Asia..... 14
 - Indonesia: Sarulla Project Seeks US\$410 Commercial Loan..... 14
 - Japan: Joint Geothermal Energy Development Study Announced..... 14

Philippines: Seven Banks Sign \$175 Million Loan with EDC 14

Geothermal Heat Pumps and Direct Use 15

Tennessee Jail to Feature Solar Panels, Geothermal Heating 15

Notices 15

New This Week 15

 DOE Seeks EGS Experts for Roadmap Workshop (July 2011)..... 15

 BLM Seeks Input from Geothermal Industry for Upcoming Bonding Workshop..... 16

Current Notices 16

 Induced Seismicity Protocol for Public Comment 16

 Nominating Committee Announced for GEA Board Elections 16

 BLM Accepting Nevada Geothermal Lease Sale Land Nominations (June 24) 17

 Deadline Approaching for GEA Honors Awards Nominations (July 1) 17

Employment..... 18

Employment Opportunities..... 18

 Research Geologist/Geophysicist, United States Geological Survey 18

 Tenure-line Position, Energy Resources Engineering, Stanford University..... 18

 Reservoir Engineering Manager – Geothermal, Chevron, Jakarta, Indonesia 19

 Sr. Applications Engineer, ElectraTherm 19

 Consultant, Geothermal Market in Turkey, EBRD 19

 NREL Seeking Applicants for Geothermal Analysis Group 19

Requests for Proposals..... 20

New This Week 20

 Request for Information on Geothermal Energy Expansion, HELCO, Big Island, Hawaii (August 31) 20

Proposal Announcements..... 20

 Nevada Accepting Land Nominations for January 2012 Geothermal Lease Sale (June 24)..... 20

 Southern California Edison Solicitation for Renewables (June 27)..... 20

 Call for Expressions of Interest, Geothermal Development Company Ltd, Kenya (June 28)..... 21

 Energy and Climate Partnership of the Americas announces RFP (July 1) 23

 San Diego Gas & Electric Solicitation for Renewables (July 11) 23

 Renewable Energy Certificates, Various Civilian Agencies (July 18) 23

 2011 Round of New Markets Tax Credit Program Allocations (July 27)..... 24

 Tender for 3 Geothermal Permits, British Columbia, Canada (July 26)..... 25

Events..... 25

GEA Events..... 25

GEA to Hold First Ever National Geothermal Summit in Reno, Nevada (August 16–17)..... 25

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

Other Events 27

 National Geothermal Academy, University of Nevada, Reno (June 20 to August 12)..... 27

 USTDA Indonesia Geothermal Power Development Reverse Trade Mission (July 10–20)..... 27

 XIX Annual Congress of the Mexican Geothermal Association (September 22–23)..... 28

 CanGEA Events (September and November) 28



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

National News



Energy Subcommittee Hears Testimony on Need for Streamlining Geothermal Exploration Activities

On June 23, the Subcommittee on Energy and Mineral Resources heard testimony on four legislative documents, including HR 2171, “Exploring for Geothermal Energy on Federal Lands Act.” The bill proposes to remove the paper trail requirements of the NEPA process from certain geothermal exploration activities, such as drilling test holes, as long as there is no major work done (i.e., building a road).

Subcommittee members were split as to whether the bill would be able to continue to provide the same environmental protection available under NEPA and move renewable energy projects forward. Natural Resources Committee ranking member Representative Edward Markey (D-Mass) said the bills were too vague and confusing; he compared the four proposals to a "Trojan horse" designed to tear down renewable energy projects rather than support them. Representative Raul Labrador (R-Idaho), on the other hand, who sponsored the geothermal bill, refuted opposition to his bill, saying it complemented past legislation including the Geothermal Steam Act of 1988.

Paul Thomsen, Director of Policy and Business Development and President of the Board of the Geothermal Energy Association provided testimony on the needs of the geothermal industry in streamlining the permitting process to allow potential power-producing projects to move forward. With the current process, Ormat Technologies has seen multiple projects tied at the permitting stage for up to two years, he said.

“[This legislation] supports greater geothermal development by clearly defining and enhancing the existing Categorical Exclusion (CX) policy and setting timelines that create accountability and remove the uncertainty from the NEPA process,” according to Thomsen’s testimony.

Thomsen described guidelines in place from several agencies, which are based on reviews of past projects as well as based on improvements to exploration technology, making the NEPA requirements unnecessary for a company holding a lease that is conducting exploration activities but is not yet crafting major construction. Adherence to those guidelines “precludes the need for a new environmental evaluation specific to each new proposed action,” he said.

Thomsen further explained that the only elements of development that would be allowed a NEPA exclusion under HR 2171 are those that would allow a developer to determine whether to move forward past the exploration stage of a project. “HR2171 limits developers to nonintrusive activities that allow determination of the temperature gradient, nothing more,” he said.

Mike Pool, Deputy Director of the BLM testified in opposition to the legislation. He said, “The Department opposes H.R. 2171 because it is inconsistent with sound and long-standing NEPA requirements for Federal actions.”

The entire hearing is available for viewing at:

<http://naturalresources.house.gov/Calendar/EventSingle.aspx?EventID=246984>. See also “Geothermal Energy Association Applauds Congressional Focus on Development of Geothermal Energy,” under this week’s **Company News**.

First-Ever GEA National Geothermal Summit to Bring Together Industry on Policy and Permitting

Reno Mayor Bob Cashell to Deliver Opening Remarks — [GEA Press Release](#), June 23 — For the first time, the Geothermal Energy Association (GEA) will bring together industry and government leaders from both the state and national level for the GEA National Geothermal Summit to talk about geothermal energy and some of the key opportunities and challenges to its success and growth. A productive dialogue at this event will help accelerate geothermal projects across the western United States potentially creating hundreds of thousands of new jobs.

GEA members, companies, and individuals in the geothermal industry will share real life approaches to getting geothermal projects in the ground and online. Topics for the Summit include: Outlooks for Washington D.C. and the Western States, Building New Transmission Projects in the Western States, New Renewable Energy Policy Developments in California, and Moving Geothermal Forward on Public Lands. GEA’s first annual GEA Honors Awards will be presented at the Summit.

The Honorable Bob Cashell, Mayor of Reno, will kick off the event. Other confirmed speakers include: Mayor of Reno; Karl Gawell, Executive Director, Geothermal Energy Association (GEA); John Wellinghoff, Commissioner,

Federal Energy Regulatory Committee (FERC); Karen Edson, Vice President, Policy and Client Services, CAISO; James Haerter, Geothermal Lead, Bureau of Land Management California Office; Kathleen Benedetto, Legislative Staff, House Subcommittee on Energy & Mineral Resources; and John McKinsey, Partner, Stoel Rives, LLP

Confirmed Expo Hall exhibitors include government agencies, universities and leading geothermal developers from the growing geothermal industry. The show will be held August 16–17 at the Grand Sierra Resort and Casino, 2500 East Second Street, Reno, Nevada.

The GEA thanks Gold Level Sponsors Ormat Technologies and Stoel Rives, LLP, as well as co-sponsor the City of Reno and Western Area Power Administration, for their support. For details on attendee registration, event agenda, and floor plan visit <http://www.geo-energy.org/nationalgeothermalsummit/main.aspx>. For information about sponsorship opportunities, please contact Kathy Kent at 202.454.5263 or kathy@geo-energy.org. Requests for media credentials should be directed to Adam Daley, The Rosen Group, at 646 695 7043 or adam@rosengrouppr.com.

DOE Awards \$11 Million to Advanced Innovative Geothermal Energy Technologies

Press Release [[Full story](#)] — June 23, Washington, D.C. - U.S. Energy Secretary Steven Chu today announced that eight projects in five states - California, Connecticut, Louisiana, Texas, and Utah - have been selected to receive up to \$11.3 million to support the research and development of pioneering geothermal technologies. The projects selected today will foster innovation in the technologies and methods used to generate geothermal energy, which will help strengthen U.S. energy security and increase America's competitiveness in the global clean energy economy. Continued innovation and technical advances will also help geothermal energy to play an important role in achieving President Obama's goal of generating 80 percent of U.S. electricity from clean energy sources by 2035.

"Through these eight projects, the Department of Energy is investing in new technologies that will further develop the nation's geothermal resources and help diversify our energy portfolio," said Secretary Chu. "By investing in geothermal research and development, we are investing in our nation's energy future and creating opportunities for energy innovation in the U.S."

The projects aim to develop fundamentally new ways of producing electricity from the Earth's heat. Selected projects will conduct feasibility studies in Phase I, including technical and economic modeling and component design for technologies that recover geothermal heat for electricity production. If selected for Phase II, projects will then validate the designs in real-world environments. The selected projects are part of the Department's comprehensive efforts to reduce the cost of geothermal energy to be competitive with conventional sources of electricity.

Selected awardees are as follows:

- GeoTek Energy, LLC (Midland, Texas) - up to \$2.85 million — The Gravity Head Energy System project will study the technical feasibility of a new generation of gravity-driven downhole pump.
- Gtherm, Inc. (Westport, Connecticut) - up to \$200,000 — The Single Well Engineered Geothermal Systems project will investigate the technical feasibility, heat extraction potential, and cost impact of a single well geothermal system.
- Lawrence Berkeley National Laboratory (Berkeley, California) - up to \$4.99 million — The Geothermal Energy Coupled with CCS: Heat Recovery Using an Innovative High Efficiency Supercritical CO₂ Turboexpansion Cycle project will develop new ways to produce electricity from superheated and pressurized carbon dioxide (CO₂) in deep geothermal formations.
- Lawrence Livermore National Laboratory (Livermore, California) - up to \$874,000 — The Active Management of Integrated Geothermal - CO₂ Storage Reservoirs: An Approach to Improve Energy Recovery and Mitigate Risk project will study the technical and economic feasibility of integrating geothermal energy production with carbon capture and storage.
- Louisiana State University (Baton Rouge, Louisiana) - up to \$997,000 — The Zero Mass Withdrawal, Engineered Convection and Wellbore Energy Conversion project will evaluate the technical and economic feasibility of technologies that circulate reservoir fluids to increase heat extraction.
- Physical Optics Corporation (Torrance, California) - up to \$200,000 — The Heat Extraction from Geothermal Systems project will investigate the technical feasibility, heat extraction potential, and cost impact of an innovative wellbore condenser technology. This technology converts hot vapor into cooler liquids at high efficiencies, which could help generate greater geothermal power.
- Terralog Technologies USA, Inc. (Monrovia, California) - up to \$541,000 — The Advanced Horizontal Well Recirculation Systems for Geothermal Energy Recovery project will investigate and develop advanced geothermal well designs that optimize combinations of vertical and horizontal wells.
- University of Utah (Salt Lake City, Utah) - up to \$671,000— The Novel Development of Geothermal Systems in the United States project will assess the electric generating capacity, economics, and environmental impacts of developing deep sedimentary and crystalline reservoirs throughout the entire United States.

DOE's Geothermal Technologies Program works in partnership with U.S. industry to establish geothermal energy as an economically competitive contributor to the U.S. energy supply. For more information about the program and selections, please visit the [Geothermal Technologies Program's Web site](#).



Company News

GEA: Association Applauds Congressional Focus on Development of Geothermal Energy

[Press Release](#), Washington, D.C., June 23, 2011 – Today, the Geothermal Energy Association (GEA) expressed support for the efforts of Congress to clarify timeframes and processes required for the processing of geothermal drilling permits on public lands. HR 2171 “(the) Exploring for Geothermal Energy on Federal Lands Act” supports greater geothermal development by clearly defining and enhancing the existing Categorical Exclusion (CX) policy by setting timelines that create accountability and remove uncertainty from the NEPA process.

Paul Thomsen, GEA Board President and Director of Policy & Business Development for Ormat Technologies remarked: “In order to unleash the nation’s vast geothermal potential we must streamline the permitting process.” GEA applauds Congress’ attention to developing this baseload energy resource through the introduction of HR2171 as well as HR1384, HR1142 and SB1149. “If permitting the work can be done efficiently, geothermal projects are projected to produce 624,000 construction jobs.”

According to the USGS, there may be as much as 90,000 MW of identified and undiscovered power generation potential in Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming.

However, development of geothermal projects entails significant risks related to finding and developing the subsurface resource. Also, geothermal projects can take several years to develop. Together, these variables create significant barriers to achieving the full potential of U.S. geothermal energy resources.

GEA will address policy and permitting issues at its first ever National Geothermal Summit to be held Tuesday, August 16 and Wednesday, August 17 at the Grand Sierra Resort and Casino in Reno, Nev. The National Geothermal Summit will convene 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. To view the latest agenda for the Summit please go to: <http://www.geo-energy.org/nationalgeothermalsummit/Agenda.aspx>.

For more information or to arrange an interview with Paul Thomsen or GEA Executive Director Karl Gawell, please contact Adam Daley at 646-695-7043 or adam@rosengrouppr.com.

Mustang Geothermal: Company Enters Into Letter of Intent for International Financing

Press Release [\[Full story\]](#) — RENO, Nev., June 22 -- Mustang Geothermal Corp. (OTCBB: URXE) announced that on June 21, 2011 it entered into a non-binding letter of intent with ARG Vermögensverwaltung AG of Munich, Germany, to arrange for a material definitive agreement securing fifty million dollars in funding to the Company. The terms of the non-binding letter of intent include a proposed two tranche funding of twenty five million dollars each.

The proposed funding is conditioned upon ARG Vermögensverwaltung AG and the Company entering into a Memorandum of Understanding within 30 days and the Company obtaining a trading listing on the Deutsche Borse trading exchange in Germany. After obtaining the trading listing on the Deutsche Borse, and completing the other terms and conditions and normal requirements of due diligence for the Memorandum of Understanding, the Company and ARG Vermögensverwaltung AG will enter into a Material Definitive Agreement to finalize the proposed delivery of the funding to the Company.

Richard Bachman, the President and CEO of the Company stated, "We are excited to begin the funding process with ARG Vermögensverwaltung AG. The Company is determined to use its best efforts to move the process forward and to obtain the trading registry on the Deutsche Borse exchange as soon as possible, and to then complete due diligence and the Memorandum of Understanding to move this forward to completion and obtaining the funding that will fuel our exploratory green geothermal operations and green energy production."

Ormat Technologies: BOT Agreement Awarded for 45 MW New Zealand Geothermal Plant

Press Release [\[Full story\]](#) —Reno, Nevada, June 21, 2011 -- Ormat Technologies, Inc. (NYSE: ORA) today announced that its subsidiary has entered into a Build, Operate and Transfer (BOT) Agreement with Tikitere Geothermal Power Limited (TGL) to explore, develop, supply, construct, own and operate a geothermal power plant in the Tikitere geothermal area near Rotorua, New Zealand. Ormat was awarded the project following a competitive bidding process initiated by TGL.

TGL was established as a joint venture vehicle for the various Maori trusts that own and administer the land. TGL's shares are held by the Tikitere Trust. The field from which the energy will be drawn is owned by the Tiki Tere Trust, Paehinahina Mourea and Tiki Tere A (Aggregated) and the Manupirua Ahu Whenua Trust. The wells will be sited on land owned by the Paehinahina Mourea Trust.

Under the BOT Agreement, the parties will jointly develop a geothermal power plant with an estimated capacity of approximately 45 MW. The project will be operated by Ormat, which shall be the project's beneficiary for an initial period of 14 years following commercial operation and then 100 percent of ownership interests in the project shall be transferred to TGL. During the BOT period, TGL will receive an income stream while a coordination committee,

comprised of representatives from both parties, will monitor the operations of the project in order to protect and promote the heritage and cultural values of the Maori land owners.

US Geothermal: Production Wells Complete on Neal Hot Springs

U.S. Geothermal is [moving forward on its project to develop and construct a geothermal power](#) generation plant west of Bully Creek Reservoir at Neal Hot Springs. Production wells have been completed and construction on facilities has begun. "Production wells are complete," Scott Nichols, environmental lands and permitting manager for U.S. Geothermal, said at the Eastern Oregon Resource Advisory Council's meeting this week. Next up are injection wells, which will pump water back into the ground for maintaining the resource.

Renewable Energy and Climate Change



Republicans Seek to Swap Sliced Tax Breaks for Lower Tax Rates

An [article in Politico this week](#) discusses the growing movement by Republicans to tackle tax breaks in renewable energy and other areas as a way to increase government revenue. Those on the House Ways and Means Committee have proposed lowering corporate and individual tax breaks as something of a trade-off, but it is unclear what this would mean for many of the affected businesses on the table. In a Ways and Means hearing, Boeing executive James Zrust said the company would welcome an exchange of the tax break for lower overall corporate tax rates: "In return for simplicity, we would like to get rid of the complexity," he said.

Some of the breaks that have historically been protected but are under consideration to be hacked are: deferral of income for controlled foreign companies (\$70.6 billion); manufacturing deduction (\$43.2 billion); accelerated depreciation for capital equipment (\$37.1 billion); and the research and development tax credit (\$25.6 billion). Last week, Club for Growth President Chris Chocola called the repeal of the ethanol tax credit the first step "to ridding the tax code of market-distorting energy subsidies" as well as "a message that Republicans are serious about tax reform."



State News



California: CEC Holds Workshop on PIER Program Funding

The California Energy Commission conducted a workshop for participants to discuss and advise the Public Interest Energy Research (PIER) program's proposed renewable initiatives for the 2011/12 fiscal year on June 23. Karl Gawell, GEA's Executive Director, was invited to participate as a member of the Advisory Board and provide geothermal input into the plan. The workshop also brought together utilities, researchers, manufacturers, end-users and policy makers from state agencies, federal agencies, and other members of the public.

According to CEC, "The workshop outcomes will help structure future public interest research efforts to maximize ratepayer benefits and eliminate duplication of efforts." For a copy of the notice, draft research plan, and for additional information, go to: <http://www.energy.ca.gov/research/notices/index.html>.

International News



Geothermal Feed-in Tariffs Worldwide

By Paul Gipe, pgipe@igc.org, www.wind-works.org, reprinted with author's permission. — Countries worldwide are increasingly turning to feed-in tariffs as a mechanism to develop geothermal energy.

In the wake of the disaster at the Fukushima nuclear reactors, for example, Japan's civil society has suggested expanding the countries limited fee-in tariff to include geothermal energy. See Japan May Tap Geothermal Power to Offset Atomic Loss and Japan's Geothermal Resources Get a Closer Look.

Similarly, renewable energy advocates have proposed expanding Great Britain's new feed-in tariff program to include geothermal development.

As with feed-in tariffs for solar and wind energy, most of the activity is taking place in Europe.

While not widely known outside the geothermal industry, Europe, and specifically Italy were pioneers in generating electricity with geothermal energy.

Italy with more than 800 MW in operation is fifth in geothermal capacity installed worldwide and its Larderello field in Tuscany is a "must see" on any renewable energy "grand tour" of Europe.

Geothermal Tariffs Worldwide Summary				
Jurisdiction	Years	Tariff €/kWh	1.3946 CAD/kWh	1.4390 USD/kWh
Germany	20			
<10 MW		0.157	0.219	0.226
>10 MW		0.103	0.144	0.148
Bonus for installation before 2016		0.039	0.055	0.056
District heating bonus		0.029	0.041	0.042
Technology bonus for hot-dry-rock		0.039	0.055	0.056
France				
Continental <12 MW	15	0.200	0.279	0.288
Plus premium for heat content <30%		0	0	0
		Linear interpolation		
>70% efficiency		0.080	0.112	0.115
Overseas Territories <12 MW	15	0.130	0.181	0.187
Plus premium for heat content <30%		0	0	0
		Linear interpolation		
>70% efficiency		0.03	0.042	0.043
Greece	20			
Mainland		0.081	0.114	0.117
Islands		0.097	0.135	0.140
Italy <1 MW	15	0.200	0.279	0.288
Spain <50 MW	20	0.071	0.099	0.102
	+20	0.067	0.094	0.097
Slovakia	12	0.196	0.273	0.282
Slovenia	15			
<50 kW		0.152	0.213	0.219
>50 kW <1,000 kW		0.152	0.213	0.219
>1 MW <10 MW		0.152	0.213	0.219
>10 MW <125 MW			n/a	
Switzerland	20			
<5 MW		0.309	0.432	0.445
<10 MW		0.279	0.388	0.401
<20 MW		0.217	0.302	0.312
>20 MW		0.176	0.245	0.253
Croatia	12			
<1 MW		0.174	0.242	0.250
>1 MW		0.174	0.242	0.250
Czech Republic	15	0.158	0.220	0.227
Kenya <70 MW*	20	0.059	0.082	0.085
Serbia	12	0.075	0.105	0.108
Taiwan		0.121	0.169	0.174
Turkey	10	0.073	0.102	0.105
Bonus for Made in Turkey				
Steam or gas turbine		0.009	0.013	0.013
Generator & power electronics		0.049	0.068	0.070
Steam injector or gas compressor		0.049	0.068	0.070
Uganda	20	0.054	0.075	0.077

*Ceiling price rather than minimum price.

Low Project Caps Limit Development

Unfortunately, Italy has not chosen to emphasize new geothermal development. While Italy has an attractive feed-in tariff for geothermal, €0.20/kWh (\$0.29/kWh), the tariff has been assigned to a small power ghetto along with small wind turbines. Italian policy limits the tariff for geothermal to projects less than 1 MW in size. This size limit is likely too small for any commercial projects.

Higher Tariffs Higher Limits

On the other side of the Adriatic Slovenia may be more attractive than Italy for generation. While Slovenia's tariff is lower, €0.15/kWh (\$0.22/kWh), projects can be larger than those in Italy, up to 10 MW.

Similarly, both Slovakia and France limit project size to less than 12 MW, but their tariffs are also as good as Italy's at €0.20/kWh.

Neither Switzerland nor Germany limits project size. Germany--at least through 2011--has two size tranches for geothermal: one for less than 10 MW, and another for projects greater than 10 MW. Switzerland, on the other hand, uses four different size classes.

For projects less than 5 MW, Switzerland pays nearly €0.31/kWh (\$0.45/kWh). This may be a typical project size for continental Europe outside of "hot spots" like Italy's Larderello field. For example, many of the geothermal projects under development in Germany are less than 5 MW each.

Africa & Asia

Outside of Europe, Africa and Asia has seen budding interest in using feed-in tariffs for geothermal.

Taiwan recently revised its geothermal tariff to the equivalent of €0.12/kWh (\$0.17/kWh).

Kenya and Uganda both have tariffs for geothermal energy, though Kenya's program doesn't offer a true feed-in tariff. The tariff in Kenya is a price ceiling rather than a minimum price. The final payment per kilowatt-hour in Kenya is negotiated.

Uganda, on the other hand, places a cap on annual geothermal development to control program costs. Geothermal development in Uganda is limited to 75 MW by 2014.

Bonus Payments

Some countries, notably France and Germany, use a system of bonus payments or adders to encourage certain kinds of geothermal development, for example, district heating.

Geothermal Feed-in Tariffs in Europe Some Examples								
			Bonuses			Total	1,395	1,439
	Years	Tariff	<2016	Heat	Technology	€/kWh	CAD/kWh	USD/kWh
Germany	20							
<10 MW		0.157	0.039	0.029	0.039	0.265	0.369	0.381
>10 MW		0.103	0.039	0.029	0.039	0.211	0.294	0.303
<10 MW		0.157	0.039	0.029		0.225	0.314	0.324
>10 MW		0.103	0.039	0.029		0.172	0.239	0.247
<10 MW		0.157	0.0392			0.196	0.273	0.282
>10 MW		0.103	0.0392			0.142	0.198	0.204
France	15							
<12 MW		0.200			0.08	0.280	0.390	0.403
Slovenia								
<10 MW	15	0.152				0.152	0.213	0.219
Switzerland								
>5 MW<10 MW	20	0.279				0.279	0.388	0.401

In France, geothermal projects receive a bonus payment for using the heat content in addition to the generation of electricity. The payment rate is on a sliding scale relative to the proportion of heat used. The maximum payment of €0.08/kWh (\$0.12/kWh) is on top of the base rate.

Interestingly, France pays less for geothermal in its island territories where the electricity is far more valuable than in continental France. Many of France's overseas territories are volcanically active, for example Martinique, and the cost to develop geothermal energy is less as a high-temperature resource is close to the surface.

Successful feed-in tariffs are typically based on the "cost" to generate electricity and not on its "value".

Germany uses a multiple bonus system. There is a bonus payment for project completion before 2016, another bonus for district heating, and a third for developing Enhanced Geothermal Systems, such as hot dry rock.

Geothermal projects developed in Germany within the next five years can expect payments from a low of €0.14/kWh (\$0.20/kWh) for those greater than 10 MW in size to as much as €0.27/kWh (\$0.38/kWh) for a power plant that also provides district heating from a deep geothermal resource.

Germany is currently debating new tariffs beginning in 2012 and geothermal tariffs are likely to be increased substantially.

Current feed-in tariffs for geothermal generation worldwide are not too dissimilar to those proposed in a 2008 study for the California Energy Commission. For projects without federal or state subsidies, the tariffs necessary ranged from a low of \$0.10/kWh (€0.07/kWh) to a high of \$0.030/kWh (€0.21/kWh). See Distributed Geothermal in California Can Add 7% of Supply. *This is the second of a series of articles on geothermal energy.*

Americas

Nevis: Nevis Geothermal Project Moving Forward

The 8.5 MW Nevis Geothermal Project is moving forward in development, with the [second phase to begin](#) this week. The engineering, procurement and construction contract for the plant [has been awarded to the CCC Group of San Antonio, Texas; Siemens subsidiary -TurboCare; and Power Engineers](#). “We are here doing reconnaissance on the logistics to move what is quite a large drilling rig in and the first phase will begin in August and time to start drilling will be the first of September,” General Manager of West Indies Power Mr. Rawlinson Isaac said.

Local legislators approved a loan guarantee from the U.S. Export-Import Bank for \$55 million, though Rawlinson said it was still pending the bank’s approval. He added that the funding would be used for the third phase of the development. The plant is planned to come on line in the third quarter of 2012.

Pacific/Asia

Indonesia: Sarulla Project Seeks US\$410 Commercial Loan

The Sarulla project, a joint venture by PT Medco Energi, Ormat Technologies, Itochu and Kyushu Electric, has [sent out draft mandate letters for US\\$410 million](#), the commercial portion of the US \$1.2 billion project financing. Six banks have received letters, with about US\$1 billion currently raised.

Japan: Joint Geothermal Energy Development Study Announced

Idemitsu Kosan Co., Ltd. and Inpex Corporation have [announced a joint geothermal energy development study](#), including a geological survey, gravity survey and electro-magnetic survey at the Amemasudake and Oyasu areas. The study is planned for this year, with the potential for further study if the area shows high geothermal production viability.

Philippines: Seven Banks Sign \$175 Million Loan with EDC

Seven banks [signed a \\$175-million six-year term loan](#) this week for Philippine geothermal power producer Energy Development Corp. (EDC).

ANZ, who is providing coordination and documentation, took \$55 million; StanChart holds \$25 million; BTMU, Maybank, and Mizuho each took \$23.5 million; ING Bank holds \$15 million; and Chinatrust Commercial Bank, \$9.5 million.



Geothermal Heat Pumps and Direct Use

Tennessee Jail to Feature Solar Panels, Geothermal Heating

A facility in Nashville will be [Tennessee's first green jail](#), featuring solar panels, a geothermal heat pump system, alternative fuel vehicle parking, low-flow plumbing, and a recycling program. These features will save the jail over \$8,000 per year in energy, according to Architect Mackie Shanks. The new detention center will hold female inmates and is planned to open in September.



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

Notices

New This Week

DOE Seeks EGS Experts for Roadmap Workshop (July 2011)

Enhanced Geothermal Systems (EGS) are engineered or enhanced reservoirs created to produce energy from geothermal resources that are otherwise not economical due to a lack of fluid and/or permeability. EGS technology can enhance existing geothermal systems and create new systems where appropriate thermal and geologic characteristics occur. EGS has the potential for accessing the Earth's vast resources of heat located at depth; the United States' potential is estimated at 16,000 GWe by the National Renewable Energy Lab (NREL). In an effort to facilitate development of and overcome the challenges associated with EGS so this vast resource can be developed, the Geothermal Technologies Program (the Program) would like to invite EGS subject matter experts to take part in the upcoming EGS Roadmap Workshop. Input from a diverse group of experts is paramount to develop a robust roadmap and a suitable path forward for the EGS program. The workshop will take place July 2011 in Reno, NV or the Bay Area. To be considered for participation, please submit the following information by e-mail to EGS@ee.doe.gov:

- Name and contact information;
- Your reason for participation **and** expected contributions to the Workshop; and
- An attached biography and CV

The qualifications of each applicant will be reviewed by program staff, who will contact selected individuals directly. Individuals not selected will have the opportunity to provide input during the public comment period. The draft document is expected to be available in September 2011. The Program will announce the release of the

draft EGS Roadmap on its [home page](#) and by e-mail to the Geothermal Workshops and Webcasts distribution list. If you are not already part of the distribution list, please consider [subscribing](#).

Please send any questions you may have to the EGS mailbox, EGS@ee.doe.gov.

BLM Seeks Input from Geothermal Industry for Upcoming Bonding Workshop

There will be a geothermal bonding workshop at the BLM Nevada State Office to discuss potential changes to the bonding requirements (agenda will follow soon) on August 23rd (8 am- 4:30 pm) and 24th (8 am-12 pm). As part of that, BLM is requesting estimates from industry for plugging (cost per foot) and reclamation (dirt work and reseeding). Please send any estimates you may have to Sheila Mallory (sheila_mallory@blm.gov) have by July 6, 2011.

Also, the BLM Nevada State Office will be holding a geothermal unit training for industry on August 24th (1 pm - 4:30 pm) and 25th (8 am-4:30, dependent upon questions). Because this training is specifically for industry, please provide Sheila Mallory (sheila_mallory@blm.gov) a list of specific geothermal unit topics (or issues) that you would like to see covered by June 30th, 2011.

And finally, if you are interested in attending either the bonding workshop and/or unit training, please be sure to specify which event(s) you will be attending. Please let Sheila Mallory know by July 8th, 2011.

Current Notices

Induced Seismicity Protocol for Public Comment

From the Department of Energy — U.S. Department of Energy Geothermal Technologies Program (GTP) introduces a new Induced Seismicity Protocol for public comment. The public comment period will last for 30 days. Public comment form available at:

http://www1.eere.energy.gov/geothermal/news_detail.html?news_id=17461

Nominating Committee Announced for GEA Board Elections

The GEA Board has approved a nominating committee to coordinate the nominations for elected seats on the GEA Board. Elections will take place in August at the National Geothermal Summit. If you are a GEA member and have a nomination for consideration, please contact: Doug Glaspey, US Geothermal, dglaspey@usgeothermal.com; Halley Dickey, TAS, hdickey@tas.com; Mike Rogers, Calpine Corporation, mrogers@calpine.com; or Karl Gawell, GEA, karl@geo-energy.org.

BLM Accepting Nevada Geothermal Lease Sale Land Nominations (June 24)

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.

Deadline Approaching for GEA Honors Awards Nominations (July 1)

The Geothermal Energy Association is thrilled to be giving away our first ever GEA Honors Awards. As put by 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 are accepting nominations for special recognition of individuals and companies who have made outstanding achievements in the geothermal industry. While the awards shown above are only open

to GEA members, these special recognition awards are open to both GEA member and non-member companies and individuals. A company can receive only one award. To place nominations for GEA Honors 2011 please go to: <http://www.geo-energy.org/GEAHonors.aspx>. If you have any questions, please contact Kathy Kent at: kathy@geo-energy.org.



Employment

Employment Opportunities

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.

Sr. Applications Engineer, ElectraTherm

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

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

Consultant, 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

NREL seeking applicants with geothermal or related technical backgrounds that have strong analytical skills and good writing/communication skills. Apply for the positions online at http://www.nrel.gov/employment/job_openings.html.



Requests for Proposals

New This Week

Request for Information on Geothermal Energy Expansion, HELCO, Big Island, Hawaii (August 31)

In a request for information (RFI), Hawaii Electric Light Company [seeks information on expanding geothermal energy on Hawaii](#) Island from stakeholders including potential geothermal developers and interested landowners on next steps that take into account the renewable energy goals and clean energy policy of Hawaii within the state's unique community, cultural, historical, and environmental context. The full RFI is available at <http://GeothermalRFI.heco.com>. Responses requested by August 31.

Proposal Announcements

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.

Southern California Edison Solicitation for Renewables (June 27)

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>

Call for Expressions of Interest, Geothermal Development Company Ltd, Kenya (June 28)**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.

Energy and Climate Partnership of the Americas announces RFP (July 1)

Department of State, Western Hemisphere Affairs Bureau, invites organizations to submit proposals outlining program concepts and capacity to advance the Energy and Climate Partnership of the Americas (ECPA), which promotes cooperation on renewable energy, energy efficiency, cleaner fossil fuels, infrastructure, energy poverty, sustainable land use and forests, and adaptation issues in Canada, Latin America, and the Caribbean. At the 2009 Fifth Summit of the Americas in Trinidad and Tobago, President Obama invited all Western Hemisphere governments, private sector stakeholders, civil society, and international organizations to join ECPA to deepen collaboration in the Americas on energy security and climate change. For more information, please visit:

<http://www.grants.gov/search/search.do;jsessionid=2MnbNpQHYhyccJkrwpMySc8xITmNjXbNfrdztQxnSvx9FBhh25hBI736943871?oppld=97744&mode=VIEW>

San Diego Gas & Electric Solicitation for Renewables (July 11)

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>

Renewable Energy Certificates, Various Civilian Agencies (July 18)

Synopsis: (Jun 07, 2011 12:27 pm) — Renewable Energy Certificates, for ultimate transfer to various Federal Civilian customers. Contract(s) are anticipated to be one time deliveries starting on September 1, 2011. Total contract quantity is 573,302,000 kWh. This is a combined synopsis/solicitation for commercial items prepared in accordance with the format in Subpart 12.6, as supplemented with additional information; proposals are being requested and a written solicitation will not be issued. This announcement and the document, which can be accessed via FedBizOpps (www.fbo.gov), constitute the only solicitation. The solicitation is issued as a Request For Proposal (RFP) and has incorporated provisions and clauses as in effect through Federal Acquisition Circular (FAC) 2005-29. Additional requirements may be added by Amendment. All responsible sources may submit a proposal, which shall be considered. Files available at

https://www.fbo.gov/index?s=opportunity&mode=form&id=659cfa3af75d35d7676a546fca24c813&tab=core&cvie_w=0. If you are unable to access the solicitation via the Internet, please contact DLA Energy-AE for a printed copy.

Points of Contact:

Bryan Simmons, 703-767-8531, Bryan.Simmons@dla.mil

Chris Boeding, 703-767-9651, Christopher.Boeding@dla.mil

Cynthia Ralph, 703-767-8566, Cynthia.ralph@dla.mil

For all Small Business issues, please call Joan Turrisi at (703) 767-9465 or Joan.Turrisi@dla.mil.

2011 Round of New Markets Tax Credit Program Allocations (July 27)

On Tuesday, May 31, 2011, the U.S. Department of the Treasury's Community Development Financial Institutions Fund (CDFI) announced the opening of the 2011 round of competition for \$3.5 billion in New Markets Tax Credit Program allocations. The application materials and related information are available at the [New Markets Tax Credit Program page](#) of the CDFI Fund website: www.cdfifund.gov.

Established in 2001, The New Markets Tax Credit Program stimulates investment of private sector capital into distressed communities by providing a tax credit to corporate or individual taxpayers who make qualified equity investments in designated Community Development Entities (CDEs). The CDEs then invest the capital raised into projects and businesses in low-income communities. Since the inception of the NMTC Program, the CDFI Fund has made 594 awards totaling \$29.5 billion in tax credit allocation authority to CDEs.

Important Program Deadlines

- NMTC Program Application: July 27, 2011
- Prior Allocatees' Issuance of Qualified Equity Investments: October 14, 2011

Note: CDE Certification application materials and resources are available on the CDFI Fund's [CDE Certification web page](#).

If you have any questions on the 2011 application process, need assistance in completing your 2011 application or CDE certification, or want additional information on the New Markets Tax Credit Program, please contact Gary Perlow, Director, New Markets Tax Credit Practice, at gary.perlow@reznickgroup.com.

Tender for 3 Geothermal Permits, British Columbia, Canada (July 26)

Crown Geothermal Resources will hold a "Competition for the Right to Explore and Develop Crown Geothermal Resources" on July 26, 2011, for three geothermal permit areas in the region of Squamish-Lilloet with First Nations interest by the Lil'Wat First Nation.

Bids must be addressed to the Minister of Energy and Mines and mailed or delivered to the office of the Executive Director, Titles Branch, Titles and Corporate Relations Division, 6th floor, 1810 Blanshard Street, PO Box 9326 Stn Prov Govt, Victoria BC V8W 9N3. They must be received before 12:00 noon Pacific Daylight Time, Tuesday, July 26, 2011, for the privilege of obtaining geothermal rights, as detailed below and depicted on the attached map. Accepted bids will be announced the following day.

Bidding procedures and conditions are defined in Information Letter TITLES-10-01 available from the Titles and Corporate Relations Division, 6th floor, 1810 Blanshard Street, Victoria, BC V8W 9N3, telephone (250) 952-0333. The relevant documents are available at: <http://www.ilmb.gov.bc.ca/slrp/lrmp/surrey/s2s/plan/lrmp.html>

Events**GEA Events****GEA to Hold First Ever National Geothermal Summit in Reno, Nevada (August 16–17)**

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>.

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

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>

USTDA Indonesia Geothermal Power Development Reverse Trade Mission (July 10–20)

The U.S. Trade and Development Agency is pleased to announce the **Indonesia Geothermal Power Development Reverse Trade Mission**, taking place **July 10-20, 2011** in the cities of Sacramento (CA), Reno (NV), Ridgecrest (CA), and Washington, D.C.

The delegation includes some of the most important figures in Indonesian geothermal power development; additional information on the Mission can be found on the event website (<http://www.indonesiageothermal.govtools.us/>) as well as in the attached announcement.

[Register](#) to attend the Business Briefing in Reno, NV on Thursday, July 14.

[Sponsor](#) the Mission or host a lunch/dinner meeting with the delegation.

[Note: Participation at and/or sponsorship of all USTDA events is limited to U.S. companies, as defined under [USTDA's Nationality Requirements](#).]

Please contact to learn more about the upcoming Mission: Garrett Shields

Technical Research Analyst

BCS, Incorporated

Office: (303) 425-6800 ext. 469

Alt Office: (410) 997-7778 ext. 469

Fax: (303) 425-6801

www.bcs-hq.com

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 14–15, 2011 - Toronto, ON, Canada—CanGEA's 4th Annual Conference and Investment Forum

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

CanGEA announces its 4th Annual Conference and Investment Forum to take place in Toronto/ ON, Canada, September 14-15, 2011. The event will showcase Canadian development, activities of Canadian and international companies, and plug in a comprehensive finance and investment element as part of its Investment Forum.

<http://www.cangeaevents.ca>

GEOTHERMAL ENERGY WEEKLY

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

Copyright © 2011 Geothermal Energy Association

209 Pennsylvania Avenue SE, Washington, D.C. 20003

Phone 202-454-5261 Fax 202-454-5265

leslie@geo-energy.org

