



This Week
March 3, 2011

National News..... 4

- GEA Heads to Florida for Renewable Energy World-North America Geothermal Conference Track and Geothermal 201 Workshop 4
- Senators Address FERC Transmission Proposals 5
- Soaring Oil Prices Set Up Energy Bill Debate 6

Company News..... 6

- Geothermal Energy Association Weaves the Geothermal Web..... 6
- Nevada Geothermal Power: Results in for Quarter Ending December 2010 7
- Raser Technologies: Company Exploring Strategic Alternatives 7

Renewable Energy and Climate Change..... 8

- RE&EE Advisory Committee Hears from Government and Industry Witnesses in First Business Meeting..... 8
- Schwarzenegger Pitches Clean Energy Strategy to DOE 9
- Energy and Defense Dept's to Enhance Cooperation on Clean Energy and Energy Security 9

State News 10

- California: Legislature Affecting Geothermal Energy Moving Forward..... 10
- California: Local Authorities Address CEC re: Permitting Delays..... 12

International News 13

- Pacific..... 13

 - Indonesia: Geothermal Projects to Receive \$500m from ADB 13
 - New Zealand: Geothermal Powers Mighty River Earnings Up 22%..... 13

Philippines: Mayor Supports EDC Project; APRI to Expand Units Using Geothermal Brine 13

Europe..... 14

 Iceland: Supply Cable to Europe Under Consideration 14

 Switzerland: Experts Discuss Geothermal Projects 14

 Renewable Energy Generates Grid Investment Questions in Europe..... 14

Middle East 15

 United Arab Emirates: Philippines VP Binay Seeks New Investments 15

Geothermal Heat Pumps and Direct Use 15

 GEA Joins NWF in Benefits of Geothermal Energy--Campus Report..... 15

Notices 16

 Closing This Week 16

 Seeking Comments on IPGT High Temperature Tools White Paper (March 4) 16

 Final Call for Submittal of Geothermal Projects in Development Information to GEA for Annual US
 Geothermal Power Production and Development Update 16

 Geothermal Resources Council Call for Abstracts (March 4) 16

 Current Notices 17

 Comments on Draft Needs Assessment for Innovative Exploration Technologies, DOE GTP (March 11)..... 17

 Join or Contribute to Brita Climate Ride, Geothermal Rock & Rollers powered by GEA (May 13-17) 17

Employment..... 18

 Employment Opportunities..... 18

 Associate Director, California Geothermal Energy Collaborative, UC Davis Energy Institute 18

 Sr. Engineer, McHale & Associates, Arvada, CO 18

 Consultant to Assess the Geothermal Market in Turkey, EBRD..... 18

 General Manager, Geothermal Exploration, Origin Energy (Indonesia) 18

 NREL Seeking Applicants for Geothermal Analysis Group 18

 Senior Level Assistant Site Manager, Operations and Maintenance..... 18

 Senior Principal Geothermal Geologist – Brisbane, Australia..... 19

 Vice President Geology, Western US 19

 Geothermal Openings, NREL, Boulder, CO..... 19

 Drilling Manager, NV 19

 Geophysicist, Calpine, The Geysers, CA..... 19

 Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID 19

 Project Manager 19

 Development Manager 19

 Project Manager Geothermal Exploration, Europe 19

Requests for Proposals.....20

Proposal Announcements..... 20

 Developing Renewable Energy and Energy Efficiency on Tribal Lands, DOE (March 3)..... 20

 Renewable Energy Certificates, U.S. Air Force and Federal Civilians (March 28)..... 20

 Refurbished 27-MW Marine Turbine, Ram Power 21

 Alaska Fairbanks North Star Borough Offers \$1M Matched-Funds Grant..... 21

 Partner Sought for Hot Oil and Gas Wells, Mississippi..... 22

Events.....22

Happening This Week..... 22

 Renewable Energy World North America 2011, Tampa, FL (March 8–10) 22

 REWNA/GEA Preconference Workshop: Geothermal Energy 201 and Geothermal in the Southeastern U.S., Tampa, FL (March 8)..... 23

GEA Events..... 24

 Calendar of 2011 GEA and GEA-Sponsored Events..... 24

 CGEC Events Announced for Spring 2011 24

 Why Should You Attend GEA Events? 25

Other Events 25

 Geothermal Heat Pump Training (Various Dates) 25

 BLM Announces Geothermal Lease Sale (March 22)..... 25

 An Overview of Geothermal Energy, AAPG 2011 Annual Convention & Exhibition, Houston, Texas (April 10) 26

 Geothermal Reporter Training, ONRR, Reno NV (May 10-12, tentative) 26

 Geothermal Energy Utilization Associated with Oil and Gas Development, SMU Geothermal Laboratory, Dallas, TX (June 13–15)..... 26

 CanGEA Events (September and November) 26



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



National News

GEA Heads to Florida for Renewable Energy World-North America Geothermal Conference Track and Geothermal 201 Workshop

The Geothermal Energy Association will be joining the PennWell Corporation next week in the eighth Renewable Energy World Conference & Expo North America, taking place March 8–10 at the Tampa Convention Center in Tampa, Florida. GEA executive director Karl Gawell will join other leading renewable energy industry association leaders during a special plenary session to discuss of federal and state policy and finance issues on Thursday, March 10; but the fun starts on March 8, with a GEA Preconference Workshop, and continues throughout the conference in a special Geothermal Track.

The GEA Preconference Workshop: Geothermal Energy 201 and Geothermal in the Southeastern U.S. will be held March 8. The half-day workshop includes a basic overview of the industry, as well as exclusive detail on emerging technologies from the experts who know it best. Bill Rickard, President, Geothermal Resource Group will provide instruction on drilling, with focus on how geothermal drilling differs from oil and gas drilling. Kevin Wallace, Senior Project Manager and Renewables Market Manager, POWER Engineers will cover above-ground components of flash and binary cycles. Susanne Vaughan, Austin Energy, will discuss the oil and gas well brine management, while Loy Sneary, President/CEO, Gulf Coast Green Energy will focus on low-temperature technologies and insight into a current geothermal coproduction project.

Three sessions for the Geothermal Track will be chaired by the Geothermal Energy Association, including one panel discussion and two paper presentation sessions:

The Market Trends, Policies & Finance Panel Discussion will feature Sasha Jacob, Jacob Securities; John Pierce, WSGR; Joshua Haacker, US Renewables; Charles J. Arrigio II, Glacier Partners; and Karl Gawell, Geothermal Energy Association. They will discuss market trends in the geothermal industry and how new standards, government polices and the current financial markets are affecting project developments in North America.

The Low Temperature Applications & Advancements session features Robert Hunt, Linear Power Ltd.; Robert Klenner, Dr. Will Gosnold, Kirtipal Barse and Mark McDonald, University of North Dakota; Theron Jay Egg, EggGeothermal; Brian Austin, North Dakota State University; Dr. K. Sumathy; and Stephen McKnight, PowerVerde Inc. Current low temperature geothermal technologies combine power generation with other revenue-producing scenarios integrated in new and exciting ways to expand geothermal power project development and smaller scale development possibilities

The Power Innovations and New Developments session features Martin Saar and Jimmy Randolph, University of Minnesota (invited); Chun Chin, Kevin Wallace and Marshall Ralph, POWER Engineers Inc.; Mike Long, Ram Power; William Harvey, Reykjavik University; Brennan Campbell and Peter Mercure, Tiger Energy Services; and Shuman Moore, Oski Energy. Geothermal energy's benefit as a baseload renewable resource as well as a geologically-derived resource means it offers innovative opportunities for applications that expand baseload utility-scale power development, increase resources conversion efficiency and offer more dynamic load support to the utilities.

"The timing of this year's Renewable Energy World conference and expo couldn't be better with the extension of the tax credits in December and the arrival of the new Congress in January," Dick Rauner, Group Publisher with PennWell Corp., [said in a statement](#). He added: "the industry leaders who are joining our plenary session will help attendees understand what the next two years might look like at the federal level and how renewable energy companies can continue to gain momentum across North America."

For full conference details and to register, visit <http://www.renewableenergyworld-events.com/index.html>.
Geothermal Preconference Workshop details: <http://geo-energy.org/events/REWConference.aspx>

Senators Address FERC Transmission Proposals

Sens. Ron Wyden (D-Ore.), Bob Corker (R-Tenn) and Richard Burr (R-N.C.) [addressed proposed transmission planning concerns](#) in a letter to the Federal Energy Regulatory Commission (FERC) on February 17. Following the letter, they joined Sen. Lisa Murkowski (R-Alaska) and Sen. Lindsey Graham (R-S.C.) in introducing the "Electric Transmission Customer Protection Act," which requires consumers receive economic and reliability benefits before being required by FERC to pay for the lines.

The proposals indicate regional transmission planning as well as ensuring only customers who benefit from transmission facilities would be charged. The senators say this could be too widely interpreted. "Electric consumers should not be burdened with the costs of new electric facilities from which they receive little or no meaningful benefit," the letter reads. Benefits should be limited to "reliability improvements, congestion relief and quantifiable power supply that allow load and preferred generators to access each other," they said.

The senators also questioned how FERC would implement the proposed rules in regions outside of competitive electricity markets, and how FERC will address allocation of costs for projects spanning several states.

Soaring Oil Prices Set Up Energy Bill Debate

A [New York Times article points out varying reactions to growing oil prices](#) from a few different industries, saying that in some cases, alarms are being sounded for the wrong reasons. Many believe Congress will act on some form of energy bill in response to oil heading to over \$100 a barrel. But what all is relevant enough to include in such a bill is up for debate.

“The arguments for opening more domestic production and increasing domestic production have always been relevant,” Robert Dillon, spokesman for Alaska’s Sen. Lisa Murkowski (R), told press. “What you’ve seen in North Africa has highlighted it for the public. The higher gas prices we’re unfortunately likely to see this summer are going to bring the debate to the forefront.”

While action is deemed necessary from most parties, various groups are at odds as to their fair share of the pie. Continued EPA support for the corn ethanol industry, wind industry attention to turbine-powered plug-in vehicles, and tactics to decrease dependence on foreign petroleum are examples given in the article. “What is the cost of trying to offset all that oil and what are the benefits?” was one of the questions posed by Adele Morris, policy director for climate and energy economics at the Brookings Institute. “Yes, oil is expensive, but electric cars are expensive, too. It requires some careful thought to analyze those trade-offs.”

A [USA today article says that if Libyan unrest escalates, “\\$5 gas isn’t out of the question.”](#) The U.S. economy, high energy consumption in spring, and rising global demand (such as from China and India) are other factors pushing prices up over the next few months.

Company News



Geothermal Energy Association Weaves the Geothermal Web

New Program Brings Together a Diverse Network of Geothermal Companies: New in 2011, the Geothermal Energy Association (GEA), launched the Geothermal Web, a new program that features companies and individuals who use and support geothermal energy. The program emphasizes the growth of geothermal energy as a green, renewable, sustainable energy source and brings together a public network of geothermal energy users meeting energy needs through power production, heating, cooling, and agriculture. Geothermal Web members educate consumers about the benefits of geothermal energy by showcasing geothermal opportunities and the adoption of greener practices. The announcement was made by GEA Executive Director Karl Gawell. “The number of people using geothermal power in innovative and unique ways across the country is staggering. This unique new program will emphasize how diverse our industry is by showing that not only is geothermal power a major source of renewable electric production out west, but it is lowering bills for heating and cooling to

homes in the east and is even allowing Alaskans to grow crops in the snow," Gawell said. "As we bring together the Geothermal Web, these diverse companies will be able to network and interact, allowing their creativity and innovation in the geothermal space to flourish."

The Geothermal Web is an inclusive network open to every sector of the geothermal industry and to anyone supporting the expanded use of geothermal energy. With a newly launched website at <http://www.geothermalweb.org>, members will have access to the Geothermal Web database and are entitled to use the Geothermal Web seal, issued by GEA to companies and individuals in the geothermal industry, for their support of this green energy.

For more information about the Geothermal Web, please contact Kathy Kent at kathy@geo-energy.org. To register to join the Geothermal Web please go to: <http://geothermalweb.org/register.aspx>.

Nevada Geothermal Power: Results in for Quarter Ending December 2010

Press Release [\[Full story\]](#) — Vancouver, B.C., February 25 — Nevada Geothermal Power Inc. (NGP) (TSX.V: NGP, OTCBB: NGLPF) today announced results for the quarter ended December 31, 2010. Gross margin for the three months was \$3.0 million and the net profit was \$20,231. The full financial results are available at www.sedar.com and on the Company's website at <http://www.nevadageothermal.com>.

Commenting on the results, the Company's president and CEO Mr. Brian Fairbank said, "Operations at Blue Mountain have shown a steady improvement throughout the last year and this is reflected in this quarter's financial results. The plant generated an average of approximately 47MW (gross), 36 MW (net) during the quarter, despite electrical repair work lowering production. The Company expects further improvement in plant output once current well field work has been completed."

Drilling began at Crump Geyser under a Joint Venture Agreement with Ormat to develop an up to 30-MW project that is anticipated to qualify for an American Recovery and Reinvestment Act (ARRA) Federal Treasury Grant. Downward revision of long term Blue Mountain power production forecast results in (non cash) gain of \$3.6 million during the quarter, as a result of a lower estimate of the cash settled option value in 2023 and further deferral of EIG (previously TCW) loan costs.

Raser Technologies: Company Exploring Strategic Alternatives

[Press Release](#), PROVO, Utah, March 1 -- Raser Technologies, Inc. (OTC Bulletin Board: RZTI), a renewable energy company, announced today that, in view of its current cash resources, nondiscretionary expenses, debt and near term debt service obligations, it intends to explore all strategic alternatives to maintain its business as a going concern, including, but not limited to, a sale or merger of the Company, or one or more other transactions that may include a comprehensive financial reorganization of the Company.



Renewable Energy and Climate Change

RE&EE Advisory Committee Hears from Government and Industry Witnesses in First Business Meeting

By Alison Holm, GEA ~ The Department of Commerce's Renewable Energy and Energy Efficiency Advisory Committee (RE&EEAC) met this week in its first business meeting. The Committee heard from key government and industry witnesses on the international market outlook and US renewable energy and energy efficiency export programs. Deputy Under Secretary for International Trade, Michelle O'Neill, discussed ITA programs and highlighted the Renewable Energy and Energy Efficiency Export Initiative (RE4I). Among the goals of the RE4I are to develop a market prioritization study to target markets most likely to result in US exports and to increase trade promotion missions. (More information on RE4I is available at <http://www.export.gov/reee/>.)

Dr. Henry Kelly, Acting Assistant Secretary for Energy Efficiency and Renewable Energy at the Department of Energy also provided input to the group. Some of the key issues discussed were: restoring manufacturing in the US generally and accelerating efficiency technologies to improve the efficiency of domestic manufacturers. Also raised was the issue of increasing the domestic supply of critical materials and rare earths, which are crucial to RE&EE technologies, and DOE's growing efforts to reduce the need for these materials by making technologies more efficient.

In addition, experts from the hydropower, solar, wind, geothermal and green buildings industries made presentations about key international markets for US exports.

The Committee's Trade Policy, Trade Promotion, and Domestic Policy Subcommittees raised key issues discussed at the Subcommittee level. Trade Policy Subcommittee Chair John Smirnow spoke in general terms about the need to adopt a collaborative approach to trade policy and for developing a policy framework that would precede trade action in order to stave off trade conflict. Next, Trade Promotion Subcommittee Chair Jeffrey D'Souza presented work done by the Subcommittee to identify where federal agency programs operate, and where resource gaps (including non-financial resources such as information and policy) exist. Finally, following up on Committee consensus that a robust domestic market is vital to a strong export market, Domestic Policy Subcommittee Chair Edward Lowe presented a guiding principles statement and specific recommendations for Committee approval. Key among the recommended actions were the need for better information and metrics for reporting on the whole range of exports and to incorporate export promotion among budget review criteria for a wider range of federal agencies and programs. On the whole, the role of financing in creating a level playing field was identified by the Committee as a key factor in US companies' ability to export RE&EE goods and services.

The Committee, Chaired by Karl Gawell of the Geothermal Energy Association, plans to meet next on June 1 in either Washington, DC or New York City to hear from finance experts about their views of key issues and needs to help US renewable and efficiency exports. The Committee discussed holding its September in San Francisco to engage the extensive renewable export community in that region.

The committee web site is at: http://www.export.gov/reese/eg_main_023040.asp. Full minutes of the public meeting will be available no later than April 1, 2011.

Schwarzenegger Pitches Clean Energy Strategy to DOE

Former [California Governor Arnold Schwarzenegger used another area of his expertise](#), bodybuilding, to explain the public relations disaster going on with global warming, at a Department of Energy gathering.

When Schwarzenegger arrived in the U.S. from Austria in 1968, he had already won the Mr. Universe title. But actors often denied working with weights, "because people really believed that bodybuilding would make you muscle-bound, stupid, narcissistic and gay." He saw a change as the industry began using different terms, such as "pumping iron," "strength training," and "weight resistance training," which eventually led to acceptance and discussion on the benefits of weight training.

The same thing needs to happen with global warming, Schwarzenegger said. "Why are we debating the science," rather than discussing the benefits of a strong energy policy, he asked.

He called on federal leaders to adopt three strategies that would be modeled after California success: (1) California uses energy 40% more efficiently than the rest of the country; (2) California implements a 33% by 2020 renewable energy standard; and (3) California policies require cars to be more fuel-efficient.

Energy and Defense Dept's to Enhance Cooperation on Clean Energy and Energy Security

From DOE [[Full story](#)] March 2 — Building on already strong cooperation between the U.S. Department of Energy and the U.S. Department of Defense, U.S. Secretary of the Navy Ray Mabus announced today new steps between the Departments to strengthen national security through the continued development of advanced clean energy technologies.

Furthering the Memorandum of Understanding (MOU) announced last summer the new steps being announced today strengthen coordination and better leverage the expertise and resources of both Departments to enhance our national energy security, as well as demonstrate the Obama Administration's leadership in transitioning America to a clean energy economy.

State News



California: Legislature Affecting Geothermal Energy Moving Forward

By John McCaull ~ GEA Western States Representative

State Senate Passes 33% by 2020 Renewable Energy Legislation; Bill Poised for Quick Action by State Assembly

After 3 years of frustration, it appears that the California Legislature is poised to send legislation – [SBx1 2 \(Simitian\)](#) -- to Governor Jerry Brown in the next month that would require private and public utilities to obtain 33% of their electricity from renewable energy sources by 2020. SBx1 2 would raise the renewable target from the current 20%, while providing the flexibility necessary to meet the higher standard. The measure passed the Senate on a vote of 26-11, and will be heard in its first Assembly policy committee on March 3rd.

In his remarks on the floor of the Senate, Senator Simitian made the case that the bill would:

- Improve air quality
- Address climate change
- Protect customers from rate manipulation by diversifying our sources of energy
- Allow for an American foreign policy based on American values and American interests, rather than energy needs
- Bring investment, jobs and tax revenues to California

SBx1 2 is part of a [Clean Energy Jobs Initiative](#) that the Democratic leadership in the Legislature has pledged to move to the desk of Governor Jerry Brown as part of the current special session on the budget and economic development. "I'm hopeful we can establish the 33% standard this year," Simitian said. "It needs to get done to send a market signal to energy providers that California is committed to renewables."

Since California's 20% RPS statute took effect in 2003, 1,702 MW of new renewable capacity has come on line. The state's independently owned utilities (IOUs), which provide service to about three-fourths of California utility customers, served 15% of their 2009 retail electricity sales with renewable power. In addition, the California Public Utilities Commission (CPUC) has approved 181 contracts for about 14,000 MW of new and existing eligible renewable energy capacity, with another 4,000 MW of contracts under review. The 2009 bids alone would meet half of IOUs' 33% target. However, major contracting challenges continue due to the anticipated complexity of bringing all of that generation online.

In addition to the big IOU's, California has 46 local publicly owned utilities (POUs) that include municipal utilities, irrigation districts, and joint powers authorities. The POUs collectively serve approximately 25% of California's retail electrical load.

Although not required by current law to meet the 20% by 2020 RPS target, most POUs have adopted a RPS target of 20% with achievement deadlines ranging from 2010 to 2020. Some POUs (14) have also already adopted a 33% (or more) by 2020 target.

Over the past few years, there have been annual attempts to increase the RPS to the 33% level. The original reason for the RPS in 2003 was to diversify the state's generation sources. Under its authority pursuant to AB 32 (The Global Warming Solutions Act of 2006), the [California Air Resources Board \(CARB\) adopted a 33% by 2020 RES program](#) in September 2010 through regulation with the intent to reduce greenhouse gas emissions in California.

In response to the wide range of positions on this policy proposal, Senator Simitian and members of the Legislature have convened numerous stakeholder meetings to try to reconcile divergent concerns over a host of significant barriers. Some of the seemingly insurmountable issues have included cost containment, transmission and siting constraints, the location of eligible generation, incentives for in-state or out-of-state resource development, and how much flexibility the utilities will be granted given anticipated or unanticipated circumstances.

It remains to be seen if the many stakeholders in this debate can come together and reach the critical mass of support needed to pass the bill and convince the Governor to sign it into law. Because the legislation is being considered in an expedited special session, California will know very soon whether a compromise is meant to be had, or if the debate will continue to drag on through the rest of the year and beyond. For a thorough analysis of the bill and a list of the current supporters and opponents, see the [March 3, 2011 report prepared by the Assembly Utilities and Commerce Committee](#).

Legislation Introduced to Expand Authority of Local Governments to Site Geothermal Power Plants

California law provides that the California Energy Commission (CEC) has the exclusive power to certify all power plant and related facilities in the state. However, the governing statute also authorizes the Commission, at the petition of a county that has adopted a geothermal element for its general plan, to approve an "equivalent certification program" that delegates to that county full authority for the certification of all geothermal power plants under 50 megawatts (MW) and related facilities within that county.

New legislation – [SB 440](#) -- has been introduced in the 2011 session by Senator Juan Vargas of San Diego that would authorize a county that has, in effect, an equivalent certification program approved by the CEC, to site a geothermal power plant of up to 100 megawatts. The legislation has not yet been set for a hearing, and GEA will continue to report on this important bill as it moves through the legislative process.

Renewable Energy Siting & Permitting Bill to Benefit Wind and Geothermal Industries Moves to Assembly Floor

Assemblyman V. Manuel Pérez announced the introduction of [ABx1 13](#), a regulatory reform bill that seeks to streamline the siting and permitting process for renewable energy projects. "Whether it's the development of utility-scale renewable energy generation, green-tech research and development, green and sustainable construction, or the manufacturing of green components and technologies," said Pérez, "we must ensure that our state remains a leader in the clean-tech industry and that those businesses and jobs are created here in California."

The bill would build on a program currently in place for the approval of solar energy projects within the Desert Renewable Energy Conservation Plan (DRECP). That program gives the Department of Fish and Game (DFG) the discretion to offer large-scale solar energy project proposals the option of paying mitigation fees in-lieu of the traditional permitting process. The in-lieu fees are then used by DFG to acquire and restore habitat lands for species impacted by the projects.

ABx1 13 would extend the in-lieu fee approach to wind and geothermal energy projects within the DRECP. In addition, the legislation calls for the preparation of regional conservation plans for the San Joaquin Valley, as well as helps local planning departments engage in planning to facilitate renewable energy development in their jurisdictions.

"If we are serious about creating jobs and stimulating the California economy, we must help promote clean-tech and renewable energy development in our state," continued Pérez. "Smart policy choices can help us aggressively pursue the clean-energy economy and create opportunities that are not only good for business, but also for workers, communities, and the environment."

ABx1 13 is one of four comprising the California Clean Energy Jobs Initiative to spur business investment and job creation in the state. The bill has passed the Assembly policy and Appropriations Committees, and now heads to a vote on the full Assembly floor.

California: Local Authorities Address CEC re: Permitting Delays

California groups have [responded to a February 1 request](#) from the California Energy Commission on how to improve permitting processes throughout local jurisdictions. The CEC aims to amalgamate different interpretations and enforcements from different agencies, and plans to offer grants to local agencies to fix their permitting processes for renewable energy projects.

SunRun is recommending that local governments commit to one online permitting application. The city of San Jose said state funds would be used to update municipal codes and to hire staff to put all permitting online. San Diego County asked for exemptions to environmental laws.

International News



Pacific

Indonesia: Geothermal Projects to Receive \$500m from ADB

The [Asian Development Bank will provide a US\\$500 million loan to Indonesia](#) for the construction of three geothermal power plants. The deal will be signed later this year and construction will begin next year. A total capacity of 165 MW is expected between the three plants in Sungaipenuh in Jambi and Karaha in West Java (both to be handled by Pertamina Geothermal Energy), and Mataloko in East Nusa Tenggara (PT PLN).

New Zealand: Geothermal Powers Mighty River Earnings Up 22%

Press Release [\[Full story\]](#), February 28 — Mighty River Power today announced earnings (EBITDAF) of \$233.6 million for the six months to 31 December 2010, up 22% on the prior period – driven by increased generation, primarily from additional geothermal capacity.

Mighty River Power Chair, Joan Withers, said the result reflected the value of the \$1 billion investment over the past five years in new geothermal plant, which has broadened the Company's domestic generation portfolio with hydro now only 63% of total production.

"We've really seen the contribution from the newly-commissioned 140MW Nga Awa Purua joint venture plant show through in these results – a 69% increase in our geothermal generation on the same period last year, with geothermal now over 30% of our total generation. This was the main driver of the lift in energy margin and EBITDAF," Mrs. Withers said.

Philippines: Mayor Supports EDC Project; APRI to Expand Units Using Geothermal Brine

Energy Development Corporation ([EDC has agreed to pay three years' salary for 190 local teachers](#)), after receiving an exemption from paying real property taxes. In response, Kidapawan City Mayor Rodolfo Gantuangco has given the EDC "first priority assessment" for construction of an additional 50-MW geothermal power plant on Mount Apo (the renewable energy producer already operates two 50-MW plants in the area). The new plant is slated to begin operations in December 2014.

Meanwhile, [AP Renewables \(APRI\) is looking to add 10 to 15 MW](#) to its Makiling-Banahawa (MakBan) geothermal plant through utilizing geothermal brine. APRI senior VP for operations Michael Pierce said it was a

“matter of using a resource that has been there but has not been previously utilized.” Additionally, APRI’s Tiwi geothermal complex in Albay could bring its four units to 57 MW each (228 MW total). The group has earmarked \$150 million for the rehabilitation and refurbishment, and is looking at 4 years of work.

Europe

Iceland: Supply Cable to Europe Under Consideration

Iceland is [conducting a feasibility study into building a power cable to Scotland](#) to transport geothermal energy and hydropower. The 1,170-km cable (longer than any existing similar cables) would have an 18-terawatt-hours-per-year capacity, enough to fuel 5 million homes. The project has the support of the government. “We have to consider options that allow us to generate the greatest amount of revenue,” Industry minister Katrin Juliusdottir told press. “Connecting Iceland with Europe via cable gives us the chance to sell our excess power onto the spot market in Europe.” The island produced 17.2 terawatt-hours of electricity last year.

Switzerland: Experts Discuss Geothermal Projects

World Radio Switzerland recently highlighted geothermal energy in Switzerland, including the history of the industry in the country, its problems and its successes. “It was a very important experience what we made in Basel and also in Zurich,” according to Jürg Buri, CEO of the Swiss Energy Foundation. “St Gallen now can use the data from Basel and Zurich and I’m sure that the same mistakes that have been made in Basel won’t be made in St Gallen again.” Dr Nicholas Deichmann of the Swiss Seismological Service, Harry Graf from EWZ, and Christoph Hug, president of Zurich’s Green Party also weigh in. [Listen on World Radio Switzerland](#).

Renewable Energy Generates Grid Investment Questions in Europe

Players in the renewable energy industry in the European Union are [looking at heightened project development and what this means for electricity grids](#). “We are in danger of being able to build renewables faster than we can build the grid, so we need to build the grid much faster,” Nick Mabey of think tank E3G told press. But remaining unanswered is the question of who will pay for it, and whether governments will subsidize grid development.

The United Kingdom signed an MoU with 9 European states to study the possibility of building a grid in the North Sea that would cost €30 billion (\$41.4 billion) and produce 100 GW of electricity within 20 years. Germany, France, Belgium, Denmark, the Netherlands, Ireland, Luxembourg and Norway were the cosigners. This could also eventually become part of a larger European supergrid.

Costs have been estimated at €100 billion (\$138 billion) over the next decade to upgrade grids. “Countries are still struggling to build their own networks, let alone when it comes to crossing borders,” said Mabey. “The only country really doing it is China—using European technology.”

Middle East

United Arab Emirates: Philippines VP Binay Seeks New Investments

This week the Philippines' [Vice President Jejomar C. Binay headed to the United Arab Emirates](#) looking to protect Filipino workers amid recent turmoil in the Middle East. Geothermal energy, agriculture, and the halal industry are areas of mutual interest on the diplomat's agenda as he seeks to promote the workers' welfare and protection. A partnership in renewable energy could be on the table through the Abu Dhabi Fund for Development. "The Philippines has one of the world's largest geothermal reserves and the UAE might be interested in investing in this sector," he told press.

Geothermal Heat Pumps and Direct Use



GEA Joins NWF in Benefits of Geothermal Energy--Campus Report

Press Release [\[Full story\]](#), February 28 — Last week, the National Wildlife Federation and partners released a first-of-its kind report, *Going Underground on Campus: Tapping the Earth for Clean, Efficient Heating and Cooling*. Documenting more than 160 colleges and universities in 42 states, the report illustrates how campuses are tapping into the benefits of geothermal energy and underground architecture to cut energy use for heating and cooling by 30 to 70 %, while substantially reducing greenhouse gas pollution.

The nation's 4,100 two- and four-year colleges and universities, which spend more than \$20 billion each year on energy (\$5 million per campus on average), could collectively save between \$2-7 billion in energy costs and cut the nation's carbon footprint by up to one percent annually by using geothermal technologies for the majority of heated and cooled space. The stakes for colleges and universities are considerable; the University of Illinois alone spends approximately \$100 million annually on energy. Energy costs at the University of Wisconsin-Madison spiked 77% between 2001 and 2006, even though square footage rose by only 7% during that time.

"We launched this initiative because we're motivated to help the campuses we work with across the U.S. figure out how to significantly cut greenhouse gas pollution, energy use and costs," says Julian Keniry, director of Campus Ecology at National Wildlife Federation. "Buildings are the largest energy users on most campuses, yet few clean, renewable energy systems can compete as affordably or sustainably as geothermal systems, specifically for heating and cooling, which account for 40-50% of a building's total energy costs and pollution."

A webinar to release the report and share findings was held on Thursday, February 24, 2011 at 2:00pm ET. Julian Keniry of NWF and Stan Cross of Warren Wilson College were the moderators, and the conference features speakers from 2 universities with geothermal installations, representatives from GEA and GEO, and Loretta Hall, author of *Subsurface Buildings* (subsurfacebuildings.com/). A recorded version of the webinar is

available online. For more information about the National Wildlife Federation's Campus Ecology Program, the Greenforce Initiative and a free copy of the report, go to <http://www.nwf.org/campusecology>.



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

Notices

Closing This Week

Seeking Comments on IPGT High Temperature Tools White Paper (March 4)

Friday March 4 is the last day to submit comments on the IPGT High Temperature Tools draft white paper. The IPGT High Temperature Tools Working Group has prepared a draft white paper in order to outline needs and relevant issues surrounding high temperature tools for advanced geothermal systems. The paper defines the current state of the art and identifies technology needs. This paper will help the IPGT determine critical R&D needs. You can view the white paper and access the comment form here:

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

Final Call for Submittal of Geothermal Projects in Development Information to GEA for Annual US Geothermal Power Production and Development Update

GEA is in the process of preparing its next US Geothermal Power Production and Development Update. If you have any projects in development for which you would like to submit information for inclusion in the Industry Update please contact Dan Jennejohn at danj@geo-energy.org or at 202.454.5261. Information needed for project inclusion in the update includes new projects in development and changes to project status since the last Industry Update (April 2010). Also, if a projects status has not changed since the last update GEA still must be notified that no change has taken place.

If you have questions regarding the Industry Development Update please contact Dan Jennejohn at the email address or phone number previously given. To see a copy of the previous update click the following link:

http://geo-energy.org/pdf/reports/April_2010_US_Geothermal_Industry_Update_Final.pdf

Geothermal Resources Council Call for Abstracts (March 4)

The Geothermal Resources Council (GRC) invites you to present your latest technical work in geothermal research, exploration, development and utilization at GRC's 35th Annual Meeting October 23-26, 2011 at the newly renovated Town & Country Resort & Convention Center in San Diego, California. The theme this year is "Geothermal: Sustainable, Green Energy." Authors can submit a poster and/or oral technical presentation at the GRC's 2011 Annual Meeting. The 1-2 page Abstract submission deadline is March 4, 2011.



The online submission form is available at:

<http://geothermal.informz.net/geothermal/data/images/2011submissionform.pdf>

Content related questions: Andy Sabin at andrew.sabin@navy.mil or (760) 939-4061.


Format and general submission questions: Anh Lay at alay@geothermal.org or (530) 758-2360.

GRC Website: www.geothermal.org.

Current Notices

Comments on Draft Needs Assessment for Innovative Exploration Technologies, DOE GTP (March 11)

DOE GTP's Innovative Exploration Technologies (IET) Subprogram sponsored a technology planning workshop on October 28, 2010, in Sacramento, California. The workshop brought together a diverse group of experts from industry, academia, and government. IET solicited input from participants to identify technology needs and potential advances for the subprogram to pursue. Input received will be used to guide the strategy for leveraging resources to advance geothermal exploration tools.

[The Draft Technology Needs Assessment](#)  is a critical component of ongoing technology roadmapping work that will be used to focus future IET efforts to spur the U.S. geothermal industry to seek green field resources by lowering exploration risks and costs through research, development and demonstration.

The Geothermal Technologies Program encourages all stakeholders to review the document and [comment](#) on the barriers, challenges and technology needs identified in the assessment. Are there any critical gaps in the assessment and/or is a technology need that is identified already being addressed? Stakeholder participation and feedback are very important elements in the roadmapping process to ensure that all critical technology advancement needs are identified. The comment period will close on March 11, 2011.

Join or Contribute to Brita Climate Ride, Geothermal Rock & Rollers powered by GEA (May 13-17)

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

Climate Ride is a non-profit organization that puts on fully supported, charitable bike rides to support sustainable solutions and environmental causes. Participation in the event helps provide finances and awareness to

renewable energy and environmental causes. You can join our team or contribute to help us reach the donation goal at: <http://climateride.donordrive.com/index.cfm?fuseaction=donorDrive.team&eventID=501&teamID=5027>

Employment



Employment Opportunities

Details available at http://geo-energy.org/empl_opport.aspx.

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

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

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

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

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

Sr. Engineer, McHale & Associates, Arvada, CO

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

Consultant to Assess the Geothermal Market in Turkey, EBRD

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

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

General Manager, Geothermal Exploration, Origin Energy (Indonesia)

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

NREL Seeking Applicants for Geothermal Analysis Group

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

http://www.nrel.gov/employment/job_openings.html. You may also contact:

Senior Level Assistant Site Manager, Operations and Maintenance

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

Senior Principal Geothermal Geologist – Brisbane, Australia

Shane Stevens / Talent Search Team Manager, Origin

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

Vice President Geology, Western US

Please send resumes to Bstevens@stmassociates.com

Geothermal Openings, NREL, Boulder, CO

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

Drilling Manager, NV

Contact: Andrew Matkovic / Vice President Clean Tech & Energy

(216) 539-7668 or andrewmatkovic@carmongroup.com

Geophysicist, Calpine, The Geysers, CA

To apply online, see

https://www.hrapply.com/calpine/AppJobView.jsp?link=3645&page=AppJobList.jsp&skimSessionName=com.hrlogix.view.cont.app.JobListTable&skimName=requisition.requisition_id&skimNdx=4&op=reset.

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

Please contact: Vanessa Van Dyk at Idaho National Laboratory: Vanessa.VanDyk@inl.gov, 208-526-6325

OR apply on line at: www.inl.gov/careers

Project Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.

andrewmatkovic@carmongroup.com or (216) 539-7668

(updated 8/20/10)

Development Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.

andrewmatkovic@carmongroup.com or (216) 539-7668

(updated 8/20/10)

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com



Requests for Proposals

Proposal Announcements

Developing Renewable Energy and Energy Efficiency on Tribal Lands, DOE (March 3)

First Steps Toward Developing Renewable Energy and Energy Efficiency on Tribal Lands

Open Date: 01/24/2011, Close Date: 03/03/2011

Funding Organization: Office of Energy Efficiency and Renewable Energy

Funding Number: DE-FOA-0000422

Summary: The Department of Energy's (DOE's) Tribal Energy Program under the Office of Energy Efficiency and Renewable Energy is soliciting applications to initiate the First Steps Toward Developing Renewable Energy and Energy Efficiency on Tribal Lands. Under this announcement, DOE is soliciting applications for strategic energy planning, energy options analysis, energy organization development, and human capacity building related to sustainable energy efficiency implementation and/or renewable energy development. Please see the Funding Opportunity Announcement for instructions on how to apply, application content, and the criteria by which applications will be selected for funding.

For more information, see the [full solicitation](#).

Renewable Energy Certificates, U.S. Air Force and Federal Civilians (March 28)

Issuance of REC solicitation SP0600-R-11-0418 -- A Renewable Energy Certificates (REC) solicitation for U.S. Air Force and various Federal Civilian customers, with total contract quantity of 243,266,000 kWh. Proposals are due March 28, 2011.

Link to Defense Logistics Agency DLA-Energy's current REC solicitation;

https://www.fbo.gov/?s=opportunity&mode=form&id=feae20a86e2041a27bcd24b7b06d7897&tab=core&_cview=0

Questions:

Ashleigh N. Johnson, Contract Specialist, Energy Electricity/Renewables Branch, Ashleigh.Johnson@dla.mil

Chris Boeding, Christopher.Boeding@dla.mil

PH: 703-767-8561 FAX: 703-767-8757

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>

Partner Sought for Hot Oil and Gas Wells, Mississippi

Rich McAdoo (rlmcdoo@continentalenergy.com) is seeking local operators or parties with access to properties with hot oil or gas wells (shut-in or production) located in Mississippi. If you are looking for a financial and technical partner to develop coproduction of geothermal fluids with oil and gas in Mississippi, send him an email.

Events



Happening This Week

Renewable Energy World North America 2011, Tampa, FL (March 8–10)

Renewable Energy World Conference & Expo North America has been the event leading the way for the renewable industry for eight years. Three sessions for the Geothermal Track will be chaired by the Geothermal Energy Association:

Session: MARKET TRENDS, POLICIES & FINANCE – PANEL DISCUSSION

Date: March 9, 2011

Time: 9:30 – 11:30 AM

Chair: Karl Gawell, Geothermal Energy Association

Co-chair: Behrooz Ershaghi, Ph.D., Atlas Copco Mafi-Trench Co.

Session description: Key players in the geothermal industry discuss market trends in the geothermal industry and how new standards, government policies and the current financial markets are affecting project developments in North America.

- Sasha Jacob, Jacob Securities
- John Pierce, WSGR
- Johua Haacker, US Renewables
- Charles J. Arrigio II, Glacier Partners
- Karl Gawell, Geothermal Energy Association

Session: LOW TEMPERATURE APPLICATIONS & ADVANCEMENTS

Date: March 9, 2011

Time: 3:30 – 5:00 PM

Chair: Halley Dickey, TAS

Co-chair: Leslie Blodgett, Geothermal Energy Association

Session description: Current low temperature geothermal technologies combine power generation with other revenue-producing scenarios integrated in new and exciting ways to expand geothermal power project development and smaller scale development possibilities

The Potential of Oil and Gas/Geothermal Co-Production in Florida, Robert Hunt, Linear Power Ltd.

Using Binary Power Generation in the Oil Field Makes “Cents,” Robert Klenner, Dr. Will Gosnold, Kirtipal Barse and Mark McDonald, University of North Dakota

Geothermal Air Conditioning: Closed Loop or Open Loop?, Theron Jay Egg, EggGeothermal

Modeling a Direct Expansion Geothermal Heat Pump Using Carbon Dioxide in a Transcritical Cycle, Brian Austin, North Dakota State University; Dr. K. Sumathy

Powerverde Gas Expansion and Gas Pressure Motors, Stephen McKnight, PowerVerde Inc.

Session: POWER INNOVATIONS AND NEW DEVELOPMENTS

Date: March 10, 2011

Time: 9:00 – 10:30 AM

Chair: Behrooz Ershaghi, Ph.D., Atlas Copco Mafi-Trench Co.

Co-chair: Halley Dickey, TAS

Session description: Geothermal energy’s benefit as a baseload renewable resource as well as a geologically-derived resource means it offers innovative opportunities for applications that expand baseload utility-scale power development, increase resources conversion efficiency and offer more dynamic load support to the utilities.

A CO2 Sequestering Geothermal Power Plant with a Negative Carbon Footprint, Martin Saar and Jimmy Randolph, University of Minnesota (invited)

Full Throttle in Nicaragua: The San Jacinto-Tizate Geothermal Project, Chun Chin, Kevin Wallace and Marshall Ralph, POWER Engineers Inc.; Mike Long, Ram Power; William Harvey, Reykjavik University

Acoustic Image Surveys of Naturally Fractured Resources in Extremely Hostile Downhole Environments (250C+) in Australia and New Zealand, Brennan Campbell and Peter Mercure, Tiger Energy Services

Deep Drilling for Geothermal in England and Germany and its Potential in the U.S., Robert Hunt, Linear Power Ltd.

Innovative Conversion Technology at Bald Mountain, California, Shuman Moore, Oski Energy

For full conference details and to register, visit <http://www.renewableenergyworld-events.com/index.html>.

Geothermal Preconference Workshop details: <http://geo-energy.org/events/REWConference.aspx>

REWNA/GEA Preconference Workshop: Geothermal Energy 201 and Geothermal in the Southeastern U.S., Tampa, FL (March 8)

As part of the preconference workshops at Renewable Energy World North America 2011, GEA along with the Geothermal Resource Group, POWER Engineers, Texas A&M University, and Gulf Coast Green Energy will hold a half-day workshop providing a basic overview of the geothermal industry and emerging technologies. The workshop will open with a 101 background including the elements of geothermal energy, market trends, and a status of the geothermal industry in the U.S. provided by the GEA. Our section on drilling is adapted from the Geothermal Resource Group’s 3-day geothermal drilling course, which has been delivered to geothermal operating companies around the world and focuses on how geothermal drilling differs from oil and gas drilling.

POWER Engineers will cover above-ground components of flash and binary cycles, including the steam gathering, two phase flow, separation systems, turbines, cooling systems, extraction, and electrical development. Austin Energy's representative will discuss the oil and gas well brine management, including potential for re-use and related reservoir issues. The course will conclude with instruction from Gulf Coast Green Energy on low-temperature technologies, including a case study of a geothermal coproduction project taking place in the southeastern U.S.

Instructors:

- Karl Gawell, Executive Director, Geothermal Energy Association
- Bill Rickard, President, Geothermal Resource Group
- Kevin Wallace Senior Project Manager and Renewables Market Manager, POWER Engineers
- Susanne Vaughan, Austin Energy
- Loy Sneary, President/CEO, Gulf Coast Green Energy

Contact: Leslie Blodgett, leslie@geo-energy.org.

See <http://geo-energy.org/events/REWConference.aspx>

GEA Events

Calendar of 2011 GEA and GEA-Sponsored Events

Look for more information on these upcoming events at <http://geo-energy.org/events.aspx>.

For sponsorship and speaking opportunities, or if you have other questions, contact Kathy Kent at Kathy@geo-energy.org.

- March 7-10: Renewable Energy World North America Conference and Expo, Tampa, FL
- March 8: REW-NA Conference Workshop, Geothermal Energy 201 and Geothermal in the Southeastern U.S., Tampa, FL
- May 4: GEA Geothermal Energy Showcase and International Forum, Washington, DC
- August 17: GEA National Geothermal Summit, Reno, NV
- October 23–26: GEA Geothermal Energy Expo® and GRC Annual Meeting 2011, San Diego, CA

CGEC Events Announced for Spring 2011

April 7, 2011: California Geothermal Energy Collaborative, Education and Outreach Workshop for the public, Davis, CA

May 26-27, 2011: California Geothermal Energy Collaborative Summit, Mammoth Lakes, CA

See <http://cgec.ucdavis.edu/>

Why Should You Attend GEA Events?

As the national trade association for the geothermal industry, the Geothermal Energy Association (GEA) strives to create and deliver educational events involving the full range of the geothermal industry, reflecting the dynamic growth of the geothermal market, and communicating the benefits of geothermal energy to all. GEA events offer important opportunities to learn and network within the geothermal community, and to inform and educate companies and organizations outside today's industry that are interested in learning more about geothermal energy. The revenue generated from GEA events is used to advance the goal of the GEA, "to expand the production and use of geothermal energy in the United States and around the world." The revenue supports GEA's workshops and events, communications activities, outreach efforts, policy related activities and analysis, internet publications, and other initiatives designed to help achieve this goal. ONLY GEA puts your dollars to work in all of these ways to advance the future of the geothermal energy industry. And, GEA does not sell your email or postal address to junk mailers or spammers. To keep track of new events and changes to this calendar go to: www.geo-energy.org.

Other Events

Geothermal Heat Pump Training (Various Dates)

Accredited Geothermal Installer Certification -- Offered in partnership with the International Ground Source Heat Pump Association (IGSHPA). Those who pass the open book exam become IGSHPA Accredited Geothermal Installers. Course also includes a hands-on pipe fusion training and certificate. For dates see: https://www.heatspring.com/?id=geothermal_training

BLM Announces Geothermal Lease Sale (March 22)

From BLM: The Nevada State Office is holding a competitive oral sale of Federal lands in the State of Nevada for geothermal leasing. Attached is a list that includes the parcel numbers, legal land descriptions and corresponding stipulations, if applicable.

The list is available on the Internet at:

http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal0.html. If the site is not accessible, you may request a paper copy from the Information Access Center by calling (775) 861-6500 between the hours of 7:30 a.m. and 4:30 p.m.

When and where will the sale take place?

When: The competitive sale begins at 9:00 a.m. on March 22, 2011. The sale room opens at 8:00 a.m. for registration and assignment of bidder numbers.

Where: We will hold the sale at the Bureau of Land Management, Nevada State Office, 1340 Financial Boulevard, Reno, Nevada. Onsite parking is available.

Access: The sale room is accessible to persons with disabilities. If you need a sign language interpreter or materials in an alternate format, please tell us no later than one week before the sale. You may contact Irene Hoiby at (775) 861-6641.

How do I register as a bidder?

All bidders are required to register prior to the sale. Before the sale starts, you must complete a bidder registration form and present a photo identification card to obtain a bidding number. We will register bidders from 8:00 a.m. until 8:45 a.m. No bidder registration is allowed once the sale has started. We are now accepting pre-registration by mail or fax by completing the enclosed bidder registration form and mailing to the above address or faxing to (775) 861-6710. On the day of the sale, pre-registered bidders must present a photo identification card to receive a bidder number. A bidder number will be assigned at the completion of registration. Interested parties who will not be bidding are not required to register. Interested parties are welcome to observe the sale, however, if seating becomes limited, bidders will be given seating preference.

An Overview of Geothermal Energy, AAPG 2011 Annual Convention & Exhibition, Houston, Texas (April 10)

This year the Energy & Minerals Division of the American Association Petroleum Geologists will hold a Pre-Convention Short Course on geothermal energy at the AAPG 2011 Annual Convention & Exhibition. The course is focused on geothermal in the oil/gas producing states and the O&G industry in general. Date: Sunday, 10 April. Time: 8:00 a.m. –5:00 p.m. Fee: Professionals \$200, students \$100 (limited). Information and updates at: www.AAPG.org/Houston2011

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

ONRR (formerly MMS) is planning a Geothermal Reporter Training, possibly for Reno, later this spring. Contact Leona Reilly, Minerals Revenue Analyst, Office of Natural Resource Revenue
303.231.3024 Fax 303.445.4245
leona.reilly@onrr.gov

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

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

CanGEA Events (September and November)

September 14th, 2011 - Toronto, ON, Geothermal Investment Forum and Networking Event
November 9th, 2011 – Calgary, AB, Geothermal Power Forum and Networking Event

GEOHERMAL ENERGY WEEKLY

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

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

