



National News..... 4

In SOTU, President Calls on Congress to "Double-Down" on Clean Energy..... 4

Company News 6

Calpine: Geothermal Workers Vote Against Union Representation 6

GEA: "Geothermal Energy 101" Coming to North America Renewable Energy Conference in Calif. 6

MidAmerican Energy: New LLC Established to Expand Company in Renewable Energy Market 8

Renewable Energy and Climate Change 9

Renewably-Generated Electricity Expands by 24% - Now Nearly 13% of U.S. Power 9

EIA Projections Show Decreased U.S. Reliance on Imported Energy 9

State News 10

California: Forbes, Greenwire Offer Takeaways from GEA Finance Forum 10

Oregon: Surprise Valley Studying Potential of Geothermal Well in Paisley 10

Washington: Bill Proposes Changes to Geothermal Law 11

International News 11

Africa 11

Kenya: Construction Underway at Olkaria Geothermal Field 11

Americas 11

Chile: Philippines' EDC Awarded First International Geothermal Concession Area 11

Nicaragua: Electrical Generation from Renewable Energy Resources Expected to Reach 55% in 2012 12

Europe 12

Iceland and Africa: Iceland, WB to Collaborate on Geothermal Studies 12

Serbia: GeothermEx Estimates 20-MW Potential for Reservoir's Vranjska Banja Geothermal Project 13



Pacific..... 13

 Indonesia: Pertamina, PLN to Partner on Geothermal Subsidiary..... 13

 Japan: MHI Plans Geothermal Power Business Expansion 14

Notices 14

New This Week 14

 Apply for Summer 2012 National Geothermal Academy (due February 15) 14

 EERE Accepting Geothermal Applications for Postdoctoral Research Award (due May 1) 14

 Geothermal Funding Available through USDA REAP Program (various due dates) 15

Current Notices 16

 GRC Announces Outstanding Technical Session Presentations from 2011 Annual Meeting 16

 Are You Developing a Geothermal Project? Contact GEA for Inclusion in the 2012 US Geothermal Power Production and Development Report 16

 Comments Invited on Sage Grouse EIS (February 7) 16

 Comments Invited on Humboldt-Toiyabe National Forest Draft EIS for Geothermal Leasing (February 11) 17

 GRC Call for 2012 Annual Meeting Papers (April 27)..... 18

Employment..... 18

New This Week 18

 Engineer, Geothermal Resource Management, State of Hawaii Department of Land and Natural Resources..... 18

Employment Opportunities 19

 Geothermal Expert, MunichRE, Germany 19

 Geothermal Operator, Enel Green Power, Nevada 19

 Drilling Manager, Origin Energy, Indonesia 19

 Theme Leader, Petroleum & Geothermal Portfolio, CSIRO, Australia 20

 PostDoc Research Assistant, Geothermal/ Geochemistry, University of Utah..... 20

 Senior Project Manager, Enel Green Power, Nevada 21

 Drilling Engineer, Transmark Renewables, The Netherlands 21

 Postdoctoral Research Associate, Los Alamos National Laboratory, New Mexico 21



Requests for Proposals..... 22

Proposal Announcements 22

 Financial JV Partner Needed, Geothermal Power Generation Project in Indonesia 22

 Industry/University Cooperative Research Centers, NSF (February 1) 23

 Sustainable Energy Pathways, NSF (February 1) 23

 Environmental Engineering, Energy for Sustainability, and Environmental Sustainability, NSF (February 17) 23

For Students! Regional Energy Department Business Plan Competitions (March 2) 24

 Renewable Energy, Hawaiian Electric Company 24

Events..... 24

New This Week 24

 Webinar, Geothermal Exploration Technologies in the U.S., DOE (February 15) 24

GEA and GEA-Sponsored Events 25

 Geothermal Track, Renewable Energy World North America Conference and Expo, Long Beach, CA (February 14–16) 25

 CPC Pre-conference Workshop on Geothermal Energy, Renewable Energy World Conference North America and Expo 2012 (February 14) 25

 Sponsorship Opportunities for GEA Events 26

Other Events 26

 Two Geothermal Leases Up for Bid, BLM, Colorado (February 9) 26



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



National News

In SOTU, President Calls on Congress to "Double-Down" on Clean Energy

President Obama's State of the Union address emphasized clean energy as a national priority. In his speech, he called on Congress to "double-down on a clean energy industry that's never been more promising." Stressing both the job creation and environmental values of clean energy, the President called for extension of tax credits and action on a national clean energy standard.

In addition, he stressed new developments on public lands and the Department of Defense: "I'm directing my Administration to allow the development of clean energy on enough public land to power three million homes. And I'm proud to announce that the Department of Defense, the world's largest consumer of energy, will make one of the largest commitments to clean energy in history – with the Navy purchasing enough capacity to power a quarter of a million homes a year," he told Congress and the nation.

The full text of the energy portion of the state of the union follows:

Nowhere is the promise of innovation greater than in American-made energy. Over the last three years, we've opened millions of new acres for oil and gas exploration, and tonight, I'm directing my Administration to open more than 75 percent of our potential offshore oil and gas resources. Right now, American oil production is the highest that it's been in eight years. That's right – eight years. Not only that – last year, we relied less on foreign oil than in any of the past sixteen years.

But with only 2 percent of the world's oil reserves, oil isn't enough. This country needs an all-out, all-of-the-above strategy that develops every available source of American energy – a strategy that's cleaner, cheaper, and full of new jobs.

We have a supply of natural gas that can last America nearly one hundred years, and my Administration will take every possible action to safely develop this energy. Experts believe this will support more than 600,000 jobs by the end of the decade. And I'm requiring all companies that drill for gas on public lands to disclose the chemicals they use. America will develop this resource without putting the health and safety of our citizens at risk.

The development of natural gas will create jobs and power trucks and factories that are cleaner and cheaper, proving that we don't have to choose between our environment and our economy. And by the way, it was public research dollars, over the course of thirty years, that helped develop the



technologies to extract all this natural gas out of shale rock – reminding us that Government support is critical in helping businesses get new energy ideas off the ground.

What's true for natural gas is true for clean energy. In three years, our partnership with the private sector has already positioned America to be the world's leading manufacturer of high-tech batteries. Because of federal investments, renewable energy use has nearly doubled. And thousands of Americans have jobs because of it.

When Bryan Ritterby was laid off from his job making furniture, he said he worried that at 55, no one would give him a second chance. But he found work at Energetx, a wind turbine manufacturer in Michigan. Before the recession, the factory only made luxury yachts. Today, it's hiring workers like Bryan, who said, "I'm proud to be working in the industry of the future."

Our experience with shale gas shows us that the payoffs on these public investments don't always come right away. Some technologies don't pan out; some companies fail. But I will not walk away from the promise of clean energy. I will not walk away from workers like Bryan. I will not cede the wind or solar or battery industry to China or Germany because we refuse to make the same commitment here. We have subsidized oil companies for a century. That's long enough. It's time to end the taxpayer giveaways to an industry that's rarely been more profitable, and double-down on a clean energy industry that's never been more promising. Pass clean energy tax credits and create these jobs.

We can also spur energy innovation with new incentives. The differences in this chamber may be too deep right now to pass a comprehensive plan to fight climate change. But there's no reason why Congress shouldn't at least set a clean energy standard that creates a market for innovation. So far, you haven't acted. Well tonight, I will. I'm directing my Administration to allow the development of clean energy on enough public land to power three million homes. And I'm proud to announce that the Department of Defense, the world's largest consumer of energy, will make one of the largest commitments to clean energy in history – with the Navy purchasing enough capacity to power a quarter of a million homes a year.

Of course, the easiest way to save money is to waste less energy. So here's another proposal: Help manufacturers eliminate energy waste in their factories and give businesses incentives to upgrade their buildings. Their energy bills will be \$100 billion lower over the next decade, and America will have less pollution, more manufacturing, and more jobs for construction workers who need them. Send me a bill that creates these jobs.

Building this new energy future should be just one part of a broader agenda to repair America's infrastructure. So much of America needs to be rebuilt. We've got crumbling roads and bridges. A power grid that wastes too much energy. An incomplete high-speed broadband network that prevents a small business owner in rural America from selling her products all over the world.



Company News

Calpine: Geothermal Workers Vote Against Union Representation

Workers at Calpine's geothermal energy complex at The Geysers voted this week against union representation by the International Brotherhood of Electrical Workers, Local 1245. A reported 215 of the 219 eligible workers voted. The unofficial final vote was 124 against joining the union and 70 for joining, with 21 votes challenged and uncounted.

Employee Tim Janke, a power plant operator at West Ford Flat, created the opposition site www.calpineunionfree.com leading up to the vote, where employees could pledge to vote "no" as Union Free Team Members. Janke and 75 other employees signed on. Following the announcement, Janke posted a video thanking his fellow employees for their votes. "[Let's] get back to doing [our] job and help make Calpine the number one independent power producer in the country," he said.

Mike Farmer, who supported joining IBEW Local 1245 as an organizing committee member, [told press](#) the committee has seven days to file an objection. He added that he is leaning toward moving on. About 725 MW of electric power is generated at The Geysers geothermal complex, the largest geothermal production field in the world.

GEA: "Geothermal Energy 101" Coming to North America Renewable Energy Conference in Calif.

Press Release (Long Beach, Calif.) January 27—The [Geothermal Energy Association](#) (GEA) will hold a special pre-conference workshop at the Renewable Energy World North America Conference and Expo, happening February 14-16 in Long Beach, Calif. The workshop, "Geothermal Energy 101: California and Beyond," will serve as an introductory course to the geothermal energy industry.

Participants will spend the morning learning about steps leading up to a successful geothermal project, technologies for conventional geothermal engineering and drilling, and what must be done to ensure successful project development. Additional discuss topics include the outlook for the geothermal market in 2012, the business and economics of geothermal development, and California's geothermal industry. Karl Gawell, GEA Executive Director, will serve as one of four course instructors.



"It's fitting that this workshop will be held in California, an industry leader and a state that has paved the way for geothermal innovation and development," said Gawell. "Participants will gain a full understanding of geothermal and hopefully use that knowledge to benefit the industry in the future."

Additional course instructors include Louis Capuano, Jr., founder of ThermaSource, Inc., John McKinsey, chair of the Geothermal Energy practice at Stoel Rives, LLP, and Maria Richards, coordinator of the SMU Geothermal Laboratory.

California, which was the first U.S. state to build a commercial geothermal site, continues to lead the way for the U.S. geothermal industry. In 2010, geothermal provided 42% of California's commercial in-state renewable electricity generation, and if the Golden State were its own country, it would lead the world in geothermal power production with over 2,500 MW of installed capacity.

The Renewable Energy World North American Conference will be held from February 14-16 at the Long Beach Convention Center. Additional geothermal features at the conference include a Geothermal Track on February 15 and 16. On the Expo Floor, the GEA's booth will provide information on the basics of geothermal energy, current geothermal energy projects and industry issues, and GEA membership and events. Visitors can take a GEA "passport" to other booths featuring geothermal for a chance to win a Kindle Fire.

On Wednesday, February 15, Geothermal Track attendees will hear papers and presentations on innovative geothermal power plant systems and technology that increase resource efficiency and offer more dynamic load support to utilities. Presentations from: Halley Dickey, TAS Energy; Josh Nordquist, Ormat Technologies; Harvey Wen, Bechtel Power Corp.; Gary Zyhowski, Honeywell; and Mike Ronzello, Pratt and Whitney Power Systems.

A second session will highlight geothermal policy and economics, exploring the role of federal and state governments and what industry needs in order to accelerate growth. Speakers: Karl Gawell, Geothermal Energy Association; John McIlveen, Jacob Securities Inc.; and Halley Dickey, TAS Energy.

On Thursday, February 16, a paper-and-presentation session will feature how geothermal energy developers increasingly use waste heat recovery and the Organic Rankine Cycle for increased efficiency. Speakers: A. Scott Weber, University of Buffalo; Bruno Vanslambrouck, HOWEST, University College of West Flanders; Joe Lillard, Atlas Copco Mafi-Trench; and Kelsey Walker, TAS Energy.



To attend the GEA workshop or for more information, please visit <http://www.renewableenergyworld-events.com/index/registration-information.html>.

MidAmerican Energy: New LLC Established to Expand Company in Renewable Energy Market

Press Release [\[See full story\]](#) (Des Moines, IA) January 24 -- MidAmerican Energy Holdings Company announced it has established a new business to support the company's move into the unregulated renewables market. MidAmerican Renewables, LLC will oversee wind, geothermal, solar and hydro projects that produce energy to be sold in the renewables market.

Greg Abel, chairman, president and CEO of MidAmerican Energy Holdings Company, said the new business welcomes opportunities for growth. "MidAmerican Renewables is open for business," said Abel. "We look forward to expanding our wind, geothermal, solar and hydro portfolio, so we can offer energy in the renewables market. We believe the need for renewable energy will continue to grow, and we are excited to be a leader in this area."

MidAmerican Renewables will be based in Des Moines, Iowa, and will encompass MidAmerican Wind, LLC; MidAmerican Geothermal, LLC; MidAmerican Solar, LLC; MidAmerican Hydro, LLC; and project development and commercial management.

Bill Fehrman, president and CEO of MidAmerican Energy Company, has been named president of MidAmerican Renewables. Fehrman's current role at MidAmerican Energy Company will remain unchanged. MidAmerican Energy Company is a regulated utility, providing electric and natural gas service to customers in Iowa, Illinois, Nebraska and South Dakota. CalEnergy U.S. will become part of the MidAmerican Renewables organization, and Steve Larsen, president of CalEnergy U.S., also will be president of MidAmerican Geothermal.



Renewable Energy and Climate Change

Renewably-Generated Electricity Expands by 24% - Now Nearly 13% of U.S. Power

Sustainable Energy Coalition/SUN DAY Campaign / [EIA](#) -- According to EIA's latest issue of the "Electric Power Monthly" with data through October 31, 2011, non-hydro renewables (i.e., biomass, geothermal, solar, wind) provided 4.60% of net U.S. electrical generation - an increase of 17.2% over the same time period in 2010. Solar expanded by 51.9%, wind by 27.8%, geothermal by 9.9%, and biomass by 1.1%. Meanwhile conventional hydropower provided an additional 8.05% of net electrical generation - an increase of 28.3% over 2010. Combined, renewable sources of electricity increased by 24.02% over 2010 levels. By comparison, electricity generated by coal dropped by 4.2% and that from nuclear power declined by 2.5%. (Nuclear power is now down to 18.87% of U.S. electrical generation.) Natural gas generated electricity grew by 1.6%.

EIA Projections Show Decreased U.S. Reliance on Imported Energy

The U.S. Energy Information Administration (EIA) this week released the Annual Energy Outlook 2012, with progress showing on both climate emissions and oil dependency. "Our updated Reference case projections show natural gas and renewables gaining an increasing share of U.S. electric power generation, domestic crude oil and natural gas production growing, reliance on imported oil decreasing, U.S. natural gas production exceeding consumption, and energy-related carbon dioxide emissions remaining below their 2005 level through 2035," [EIA Acting Administrator Howard Gruenspecht told press](#). "These projections reflect increased energy efficiency throughout the economy, updated assessments of energy technologies and domestic energy resources, the influence of evolving consumer preferences, and projected slow economic growth."

Projections showed domestic crude oil production is expected to grow by more than 20 percent over the coming decade. The renewables share is shown increasing from 10 percent to 16 percent between 2010 and 2035. U.S. energy-related CO₂ emissions remain below their 2005 level through 2035, with emissions per capita falling by an average of 1 percent per year.



State News

California: Forbes, Greenwire Offer Takeaways from GEA Finance Forum

Following the Geothermal Energy Association's fourth annual Finance Forum last week, the GEA saw a buzz of media feedback. Energy experts at the Forum revealed financial and regulatory issues and benefits in the current California market, the U.S. market and the broader international geothermal market. California Energy Commissioner Karen Douglas asserted that geothermal could be an ideal replacement for nuclear as the state's two nuclear plants age. Other topics covered by media included innovative technologies, such as extracting minerals from wastewater and using a solar facility alongside a geothermal plant. For a variety of coverage from the event, see: Forbes: Warren Buffett's Long Quest to Build a Geothermal Power Plant (Todd Woody), <http://www.forbes.com/sites/toddwoody/2012/01/19/warren-buffetts-long-quest-to-build-a-geothermal-power-plant/>; E&E News Greenwire: Geothermal backers set their sights on Calif. (Debra Kahn), <http://www.eenews.net/Greenwire/2012/01/19/18>; AOL Energy: Geothermal Could Become California's Baseload Power: Commissioner (Felicity Carus), <http://energy.aol.com/2012/01/23/geothermal-could-become-californias-baseload-power-commissione/>; Clean Technica: (Adam Johnston) US Geothermal Industry Looking for New Ways to Move Industry Ahead, <http://cleantechnica.com/2012/01/24/us-geothermal-industry-looking-for-new-ways-to-move-industry-ahead/>; Energy Daily: Geothermal Energy Finance Forum calls for new approaches, http://www.energy-daily.com/reports/Geothermal_Energy_Finance_Forum_calls_for_new_approaches_999.html; and ThinkGeoEnergy: GEA Holds Successful Finance Forum Urging Change in Policy (Alex Richter), <http://thinkgeoenergy.com/archives/9616>

Oregon: Surprise Valley Studying Potential of Geothermal Well in Paisley

Surprise Valley Electric is conducting tests on a geothermal well in Paisley, Oregon that will help determine the well's potential as well as shape the design of the future power plant. The site is located on private property, and generated energy would be sold over the grid using existing Surprise Valley distribution lines. Current planning is calling for a 2- to 4-MW plant to come on line by February 2013. The project is estimated to cost about \$10 million to \$12 million, and to be capable of powering to 2,000 to 4,000 homes. [Property owner Mark Douglas told press](#) he and his wife hope residual power can be used to heat Paisley schools, community buildings, a tilapia fish farm, and greenhouses, and create Paisley-area jobs.



Washington: Bill Proposes Changes to Geothermal Law

Following up on 2011 efforts, Senator Adam Kline and an informal geothermal working group are proposing changes to Washington's geothermal law. The bill, SB 6285 proposes replacing the current definition of geothermal resources, which is "only that natural heat energy of the earth from which it is technologically practical to produce electricity commercially" [and associated fluids and minerals], with a definition similar to that of Oregon, and excludes ground source heat pumps. It also proposes adding a definition of "by-products" consistent with the federal definition.

The bill clarifies that geothermal resources may be severed from the surface estate, whereas in current law, the surface landowner owns the resources. It addresses senior water rights, exempting certain water uses in geothermal projects from the water code appropriation procedure, similar to Nevada's law. It adds provisions for coordination between the Department of Natural Resources and the Ecology, and renews state royalties from federal leases. *Contributed by Kathleen Callison, www.callisonlaw.com. [\[See proposed bill\]](#)*

International News

Africa

Kenya: Construction Underway at Olkaria Geothermal Field

Construction began early this month on the geothermal project to extend the Olkaria I and II plants, which currently produce a total 115 MW. KenGen's [managing director Eddy Njoroge told press](#): "We are on schedule to deliver the 280 MW to the national grid by 2014. This will ensure we achieve our objective of getting half of our power from geothermal sources by 2018."

Americas

Chile: Philippines' EDC Awarded First International Geothermal Concession Area

Energy Development Corp. (EDC), the largest producer of geothermal energy in the Philippines, has been awarded its first international concession area. In 2012, the company will begin geological and geophysical surveys at the Newen site through EDC Chile Ltd., a limited liability company.



“The drilling of each well could take about 70 to 80 days,” [EDC president and COO Richard B. Tantoco told press](#). “This will be followed by the testing of wells for about 90 days. The drillings and testings could take a year, maybe a little more, depending on rig availability within Latin America. It is only after that can you set up the power plant. Our general rule of thumb is from the time we get the concession contract to the time we generate the actual kilowatt-hours, it could take as long as six to seven years,” Tantoco said.

Nicaragua: Electrical Generation from Renewable Energy Resources Expected to Reach 55% in 2012

By the end of this year, the second 36-MW unit at the San Jacinto Tizate geothermal field should be on line, as well as a new 39 MW wind project – and in the same time frame, estimated by the Ministerio de Energía y Minas, Nicaragua should reach 55% of its electricity needs supplied by renewable energy projects. [According to an article in the local newspaper](#) “El Nuevo Diario”, on January 10, 2012, about 42% of Nicaragua’s electricity (220 MW) came from renewable energy projects.

At the present time, about 48% of the country’s electricity comes from renewable energy resources: 15.7% geothermal (Momotombo and San Jacinto Tizate fields), 13.1% biomass, 12.2% hydro, and 7.3% wind. About 52% is generated by burning bunker oil. By the end of the country’s 2011-2016 plan (Plan Indicativo de Expansión de la Generación), installed capacity of electricity generation should increase by about 646 MW, with the geothermal contribution at 177 MW, hydro 352 MW, and wind 117 MW. *Contributed by Marcelo Lippmann, Lawrence Berkeley National Laboratory.*

Europe

Iceland and Africa: Iceland, WB to Collaborate on Geothermal Studies

The Icelandic Ministry for Foreign Affairs and the World Bank have agreed to [collaborate on geothermal energy efforts](#) in the East African Great Rift Valley, as announced yesterday. Iceland will assist countries in determining where the best geothermal areas are located, conducting basic studies, and assisting with drilling strategies. The World Bank will provide funding.

The included countries are Djibouti, Ethiopia, Uganda, Eritrea, Kenya, Southern Sudan, Tanzania, Malawi, Mozambique, Burundi, Rwanda, Zambia, and Somalia. These countries suffer energy shortages while experts believe that in the Great Rift Valley, which is 6,000 kilometers long, it is possible to harness up to 14,000 MW of geothermal energy and thus provide 150 million people with access to energy.



Serbia: GeothermEx Estimates 20-MW Potential for Reservoir's Vranjska Banja Geothermal Project

Press Release [[see full story](#)] January 23 -- Reservoir Capital Corp. (frankfurt:ROC)(berlin:ROC) is pleased to report that GeothermEx Inc., a Schlumberger Company, has completed an independent review of the Company's Vranjska Banja Geothermal Project in southern Serbia, concluding it could potentially support a power generation project of up to 20 MW in size, utilizing a binary-cycle power plant.

Vranjska Banja is the hottest geothermal spring in Serbia, with discharge temperatures of 96 degrees C (boiling at discharge elevation). Exploration drilling of two intermediate depth wells (VG-2 and VG-3) in the early 1990's reportedly encountered temperatures of up to 137 degrees C at less than one kilometre depth. Both wells were cased to 800-900 metres depth (high temperature intervals were not isolated), and have relatively high artesian flows together averaging approximately 60 litres per second.

GeothermEx reviewed the available information on the geothermal resource at Vranjska Banja (including the existing VG-2 and VG-3 geothermal wells), and concluded that a resource temperature of approximately 150 degrees C is possible at depths of about 2,000m. Wellbore modelling calculated that a full-diameter well encountering reservoir conditions similar to those intercepted in VG-2 and VG-3 would have a net production capacity of approximately 3 MW.

GeothermEx estimated that the heat resource within the 300-400 hectare area immediately around Vranjska Banja spa is equivalent to at least 10 MW and possibly up to 20 MW. The Company plans additional geophysical surveys and shallow temperature gradient drilling within the license area as the first steps to upgrade this resource into a known reserve and to determine the resource potential of the rest of the license area.

Pacific

Indonesia: Pertamina, PLN to Partner on Geothermal Subsidiary

PT Pertamina and PT Perusahaan Listrik Negara (PLN), both run by the state, have agreed on a joint subsidiary with 50:50 ownership. PT Pertamina Geothermal Energy (PGE) would also issue joint debt papers or bonds for the Rp 10 trillion investment needs. Pertamina spokesman Mochamad Harun [told The Jakarta Post](#), "A team will be set up to determine the model of the partnership between Pertamina and PLN as well as the future plans of PGE."



"With this partnership, there will be no more long negotiations and the geothermal project will begin as soon as possible to be Indonesia's reliable source [of power]," State-Owned Enterprises Minister Dahlan Iskan told press. "Previously, PLN and Pertamina's talks were deadlocked. Pertamina wants high PPAs while PLN asks for low PPAs," he added.

Japan: MHI Plans Geothermal Power Business Expansion

Mitsubishi Heavy Industries, Ltd plans to raise annual sales of its geothermal power business to 18 billion yen. In an announcement January 20, [the company announced](#) the expansion as in line with the growth of the entire worldwide geothermal power market. MHI has supplied 100 geothermal power generation systems, and with its new goal will increase proposal and delivery of full turnkey design and construction projects as well as actively promote supply of individual components.



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

Notices

New This Week

Apply for Summer 2012 National Geothermal Academy (due February 15)

The National Geothermal Academy is proud to present an intensive summer course in all aspects of geothermal energy development and utilization, held at the University of Nevada, Reno campus. The eight-week course is offered for either undergraduate or graduate credit (June 18-August 10). Two three-week sections, Geothermal Geoscience and Geothermal Engineering, are also available for graduate credit. Individual weeks are offered for professional development. The academy is intended for juniors and seniors, and post-baccalaureate students in scientific and engineering programs. Strong undergraduate preparation in quantitative fields is expected. For information about course content, dates, and to download the application, please visit

<http://www.unr.edu/geothermal/NGA.htm>. Applications are due February 15, 2012.

EERE Accepting Geothermal Applications for Postdoctoral Research Award (due May 1)

The Energy Efficiency and Renewable Energy (EERE) Postdoctoral Research Awards support EERE's mission in energy efficiency and renewable energy by offering recent Ph.D. recipients the opportunity to conduct applied research at universities, national laboratories, and other research facilities. The objective of the EERE Postdoctoral Research Awards is to create the next generation of scientific leaders in



energy efficiency and renewable energy by attracting the best scientists and engineers to pursue breakthrough technologies in a highly prestigious postdoctoral research program.

Research opportunities will be awarded to qualified applicants to work on collaborative applied research of mutual interest to the applicant, the host facility, and the EERE Program sponsoring the award. The award will provide an annual stipend, allowances for health insurance and research-related expenses, and limited reimbursement for relocation expenses. An Annual Research Meeting for participants is organized and hosted by EERE.

The EERE Postdoctoral Research Awards are administered by the [Oak Ridge Institute for Science and Education \(ORISE\)](http://www.ornl.gov) in collaboration with EERE. ORISE is responsible for the implementation of the program, processing applications, the review and notification processes, and management of payments to participants. Visit: www.eere.energy.gov/education/postdoctoral. See also the Geothermal Technologies Program: www.eere.energy.gov/geothermal

Geothermal Funding Available through USDA REAP Program (various due dates)

From the official release -- USDA is seeking applications to provide assistance to agricultural producers and rural small businesses to complete a variety of energy efficiency and renewable energy projects, including geothermal. Funding is available from USDA's Rural Energy for America Program (REAP) authorized by the Food, Conservation, and Energy Act of 2008 (Farm Bill). For 2012, USDA has approximately \$25.4 million budget authority available to fund REAP activities, which will support at least \$12.5 million in grant and approximately \$48.5 million in guaranteed loan program level awards. USDA is accepting the following applications:

- renewable energy system and energy efficiency improvement grant applications and combination grant and guaranteed loan applications until March 30, 2012;
- renewable energy system and energy efficiency improvement guaranteed loan only applications on a continuous basis up to June 29, 2012;
- renewable energy system feasibility study applications through March 30, 2012; and
- energy audits and renewable energy development assistance applications through February 21, 2012.



More information on how to apply for funding is available in the January 20, 2012 [Federal Register](#), pages 2948 through 2954. Further information on rural programs is available at a local USDA Rural Development office or by visiting USDA Rural Development's web site at <http://www.rurdev.usda.gov>.

Current Notices

GRC Announces Outstanding Technical Session Presentations from 2011 Annual Meeting

The Geothermal Resources Council (GRC) has announced the outstanding presentations from the global geothermal community, taken from each of the technical sessions at last October's GRC 2011 Annual Meeting in San Diego. The GRC has made visual aids from over 230 technical presentations available on its Web site at geothermal.org, and the 53 outstanding presentations are featured at www.geothermal.org/powerpoint11_best.html. The GRC Annual Meetings were held in tandem with GEA's Geothermal Energy Expo.

Are You Developing a Geothermal Project? Contact GEA for Inclusion in the 2012 US Geothermal Power Production and Development Report

GEA is preparing to gather information for its 2012 US Geothermal Power Production and Development Report. If your company or organization is involved in developing a geothermal project, and you would like to submit information on that project for inclusion in the 2012 report, or if you have questions about the report, please contact Dan Jennejohn at danj@geo-energy.org or at 202.454.5261.

If a project your company is developing was included in the last industry report (April 2011), GEA still asks for confirmation from the developer regarding the current status of the project for the 2012 report. A copy of the 2011 industry report can be accessed through GEA's [Web site](#).

Comments Invited on Sage Grouse EIS (February 7)

The Bureau of Land Management and the U.S. Forest Service are addressing ongoing threats to the greater sage-grouse and its habitat throughout the West through a Notice of Intent for the Sage Grouse EIS, published in the Federal Register December 9. Greater sage-grouse currently use around 47 million acres of land managed by the BLM and around nine million acres of land managed by the USFS. About 98 BLM Resource Management Plans address greater sage-grouse, while the USFS expects to evaluate conservation measures into as many as nine Land and Resource Management Plans considered high priority for the conservation of sage-grouse.



The BLM and the U.S. Forest Service are seeking comment on issues that should be addressed in evaluating greater sage-grouse conservation measures in land use plans in 10 Western states. Comments for the [Eastern Region](#) may be sent to sageeast@blm.gov. Comments for the [Western Region](#) may be sent to sagewest@blm.gov. General questions about the planning strategy should be directed to SageQuery@blm.gov. The Bureau of Land Management will be holding scoping meetings in western states in January. See:

<http://www.blm.gov/wo/st/en/prog/more/sagegrouse/western.html>. Comments are due February 7, though they will be accepted until the 15th.

To get on an email list for notices/newsletters send a request with your contact information to sagewest@blm.gov. To follow the process on the Web site, go to www.BLM.gov / "News and Information" (on right side) / "Federal Agencies Announce Initial Step to Incorporate Greater Sage-Grouse Conservation Measures into Land Management Plans" / Under "Public Meetings," click "Western."

Comments Invited on Humboldt-Toiyabe National Forest Draft EIS for Geothermal Leasing (February 11)

Under the recently completed Humboldt-Toiyabe National Forest Draft Environment Impact Statement (DEIS) for Geothermal Leasing, the Forest Service would consent to lease up to approximately 615,230 acres of National Forest System land that are administratively available for geothermal leasing. The National Environmental Policy Act (NEPA) provides for a 45-day public comment period for a DEIS. Comments on the DEIS should be specific and address the adequacy of the document and the merits of the alternatives discussed (40 CFR 1503.3). The decision for this project will be subject to the appeal process pursuant to Forest Service regulations at 36 CFR 215. Only those who provide comment on the DEIS during the comment period may participate in the 215 appeal process.

The full proposal, including maps of the proposed areas, is available online at www.fs.usda.gov/goto/htnf/geothermal. Comments may be submitted online to: comments-intermtn-humboldt-toiyabe@fs.fed.us. Please include "Geothermal EIS" in the subject line. Written comments must be submitted to: Keith Whaley, Project Manager, Humboldt-Toiyabe National Forest, Bridgeport Ranger District, HC 62 Box 1000, Bridgeport, CA 93517; fax (760) 932-5899; phone (760) 932-7070; or kwhaley@fs.fed.us. Comments must have an identifiable name attached or verification of identity will be required. A scanned signature may serve as verification on electronic documents.



GRC Call for 2012 Annual Meeting Papers (April 27)

Authors may submit an oral technical presentation and/or poster before April 27 to present at the Geothermal Resources Council's 2012 Annual Meeting, September 30 through October 3, 2012 in Reno, Nevada. Instructions to submit:

http://geothermal.informz.net/geothermal/archives/archive_1972541.html. Please direct all content related questions to: Frank Monastero at monasterofc@gmail.com; Lisa Shevenell at lisaas@unr.edu. Please direct all format and general submission questions to: Anh Lay at alay@geothermal.org or (530) 758-2360 ext. 100

2012 Paper Topics: Business Development / Finance; Basin & Range / Cascades / Rocky Mountains; Direct Use / Heat Pump; Enhanced Geothermal Systems; Exploration / Resource Assessment / Management; Geology, Geophysics and Geochemistry; Geothermal Energy Associated with Oil and Gas Operations; Geothermal Project Case Studies; International; Power Operations / Maintenance / Production Technologies; Regulatory / Environmental Compliance / Policy Issues; and Utility and Transmission Issues.

Employment

New This Week

Engineer, Geothermal Resource Management, State of Hawaii Department of Land and Natural Resources

The State of Hawaii Department of Land and Natural Resources (DLNR) Engineering Division is recruiting for a Registered Professional Engineer for its Mineral Resources Section to perform geothermal resource management functions. The position is currently being announced through the State of Hawaii Department of Human Resources Development at:

http://agency.governmentjobs.com/hawaii/default.cfm?action=viewJob&jobID=404365&hit_count=yes&headerFooter=1&promo=0&transfer=0&WDDXJobSearchParams=%3CwddxPacket%20version%3D%271%2E0%27%3E%3Cheader%2F%3E%3Cdata%3E%3Cstruct%3E%3Cvar%20name%3D%27FIND%5FKEYWORD%27%3E%3Cstring%3E%3C%2Fstring%3E%3C%2Fvar%3E%3Cvar%20name%3D%27CATEGORYID%27%3E%3Cstring%3E%2D1%3C%2Fstring%3E%3C%2Fvar%3E%3Cvar%20name%3D%27TRANSFER%27%3E%3Cstring%3E0%3C%2Fstring%3E%3C%2Fvar%3E%3C%2Fstruct%3E%3C%2Fdata%3E%3C%2FwddxPacket%3E

The Mineral Resources Section is responsible to develop and enforce administrative policy regarding the management of geothermal Public Trust Resources under the direction of the Board of Land and Natural Resources, monitor and assess existing or new



mining/quarrying land leases, and provide technical expertise regarding the geologic aspects of rockfall or slope movements. This Engineer position will take the leading role in Departmental response to rockfall or slope movements on lands under DLNR jurisdiction. Registration as a Professional Engineer in the State of Hawaii is required.

Employment Opportunities

Job opportunities and internships in or related to the geothermal energy industry are published in GEA's newsletter - the *Geothermal Energy Weekly* free of charge. Contact: leslie@geo-energy.org.

Geothermal Expert, MunichRE, Germany

This job is with MunichRE's Entrepreneurial Risks Solutions Department, focusing on geothermal exploration risks during implementation of their internationally oriented strategy for the insurance of geological risks as well as geological risk assessment and monitoring.

- Job posting at MunichRE: <https://munichre.tms.hrdepartment.com/cgi-bin/a/highlightjob.cgi?jobid=1943>.
- See the ThinkGeoEnergy Geothermal Job Portal at <http://jobs.thinkgeoenergy.com/>.

Geothermal Operator, Enel Green Power, Nevada

Responsible for outside operations, general housekeeping, minor maintenance, maintaining equipment, taking logs of equipment, maintaining company vehicles, operating equipment, and assisting A and B operator as needed; and Performing all necessary tasks as pertained to Operations of a Binary Cycle Geothermal Power Plant, or as assigned by Plant Supervisors or Plant Manager.

- Job posting at Enel Green Power: http://www.enelgreenpower.com/en-GB/ena/company/work/Geothermal_Operator/index.aspx.
- See the ThinkGeoEnergy Geothermal Job Portal at <http://jobs.thinkgeoenergy.com/>.

Drilling Manager, Origin Energy, Indonesia

Lead geothermal drilling projects in Indonesia, Jakarta based with domestic and international travel. As a result of Origin's continued commitment to renewable energy and sustainability this newly created position has been established to manage upcoming drilling programs in our Indonesian joint venture geothermal business – Origin Tata Power (OTP). To be successful in this role a drilling engineering and project management background is required with a minimum of 5-6 years of specific geothermal drilling experience. Sound knowledge of petroleum engineering would also be an advantage.

- Contact: Jennifer Blake on +617 3867 0022 or email jennifer.blake@originenergy.com.au.
- See description at the ThinkGeoEnergy Geothermal Job Portal, <http://jobs.thinkgeoenergy.com/>.



Theme Leader, Petroleum & Geothermal Portfolio, CSIRO, Australia

The Theme Leader leads research activities in Gas Production and Processing and Geothermal Energy. The PGR portfolio develops and deploys R&D solutions for oil, gas and geothermal energy exploration, production and processing as well as CO₂ capture and storage technologies, aiming at a safer, cleaner, and secure Australian energy future. The Theme Leader will have direct responsibility to the Portfolio Director for successful execution and management of the Theme, will recommend the strategic direction of the Theme, and will oversee the integration and delivery of the science. The successful applicant will also have a key role in designing and facilitating successful delivery and adoption of the science in line with the Theme goal.

- Job posting at CSIRO:
<http://csiro.nga.net.au/cp/index.cfm?event=jobs.checkJobDetailsNewApplication&returnToEvent=jobs.listJobs&jobid=1cabe750-dea2-8b05-548c-650bc15fa117&CurATC=EXT&CurBID=62afb35d-9273-4a11-8dcc-9db401354197&JobListID=8664bb62-dd2a-b70c-7ed4-5bdf68cebd3a&jobsListKey=918a8aeb-3528-4ef7-b4e4-814273e5dd8e&persistVariables=CurATC,CurBID,JobListID,jobsListKey,JobID&lid=89694670054>.
- Position details: <http://csiro.nga.net.au/publicfiles/csiro/jobs/1CABE750-DEA2-8B05-548C-650BC15FA117/Position%20Details%20WAN02346.pdf> [PDF]
- See the ThinkGeoEnergy Geothermal Job Portal at <http://jobs.thinkgeoenergy.com/>.

PostDoc Research Assistant, Geothermal/ Geochemistry, University of Utah, Utah

The Energy & Geoscience Institute (EGI) at the University of Utah is seeking applicants for a postdoctoral research position in geothermal geochemistry. The successful applicant will conduct original research on water, gas and mineral interactions in geothermal systems from a variety of geologic environments. This position offers the opportunity to work with a highly skilled interdisciplinary team of scientists and engineers in the energy industry. The successful applicant must therefore have excellent oral and written communication skills.

- Job posting at the University of Utah Career Portal: <http://utah.peopleadmin.com/postings/12103>.
- Interested applicants should send resumes and the names of three references to Dr. Joseph Moore at jmoore@egi.utah.edu.
- See the ThinkGeoEnergy Geothermal Job Portal at <http://jobs.thinkgeoenergy.com/>.



Senior Project Manager, Enel Green Power, Nevada

The Sr. Project Manager will manage all activities involved in the project design lifecycle. He/She will be responsible for projects in all technologies of renewable energy production including wind, solar, hydro, geothermal and biomass. 10 yrs of related work experience is required.

- Job posting at Enel Green Power Web site: www.enelgreenpower.com/en-GB/ena/company/work/
- See the ThinkGeoEnergy Geothermal Job Portal at <http://jobs.thinkgeoenergy.com/>.

Drilling Engineer, Transmark Renewables, The Netherlands

Transmark Renewables is looking for a fulltime Geothermal Drilling Engineer who will work within a small team involved in developing drilling campaigns in the various license areas throughout the world. The Geothermal Drilling Engineer will report to the Drilling Manager and cooperate and liaise with the drilling and wider Transmark team.

- Job posting on Linked-in:
http://www.linkedin.com/jobs?viewJob=&jobId=2334449&srchIndex=2&trk=njsrch_hits&qoback=.fjs_geothermal_*1_*1_Y_*1_*1_*1_1_R_true_*2_*2_*2_*2_*2_*2_*2_*2
- See the ThinkGeoEnergy Geothermal Job Portal at <http://jobs.thinkgeoenergy.com/>.

Postdoctoral Research Associate, Los Alamos National Laboratory, New Mexico

The Computational Earth Science group, Earth and Environmental Sciences (EES) division, has an immediate opening for a creative and resourceful scientist to join their interdisciplinary team to develop and apply novel computational techniques for subsurface flow and solute transport in fractured media. A Ph.D. in Hydrology, Hydrogeology, Geosciences, Applied Math, Computational Sciences, Physics or Engineering completed within the last five years or soon to be completed is required.

- Job posting at the <http://www.lanl.gov/science/postdocs/>.
- Contact: Scott Painter (spainter@lanl.gov; 505 606 1895).
- See the ThinkGeoEnergy Geothermal Job Portal at <http://jobs.thinkgeoenergy.com/>.



Requests for Proposals

Proposal Announcements

Proposals and other announcements in or related to the geothermal energy industry are published in GEA's newsletter - the *Geothermal Energy Weekly* free of charge. Contact: leslie@geo-energy.org.

Financial JV Partner Needed, Geothermal Power Generation Project in Indonesia

The promoters were awarded the bid to build a 65 MW Geothermal Working Area (GWA) and the mining permit (IUP) of Geothermal in West Nusa Tenggara Province, Indonesia, in July 2010. The IUP is valid up to 35 years, with 3 years for exploration, 2 years for feasibility study & construction, and 30 years for commercialization. Each stage could be extended by government approval.

Promoters can sell electricity to the PLN (National Electricity Grid of Indonesia) at USD 9.65 cents per kWh. The promoters have entered a long-term Power Purchase Agreement for 25 years. Promoters must conduct exploration within the next 6 months.

The recommended activities of exploration stage consist of magneto telluric, gradient temperature drilling and exploration drilling. The outcome of the exploration stage is to confirm the status of probable reserve from the hypothetical resource at 65 MW. The estimated capital expenditure for the exploration stage is US \$15 million, which is required to determine the location for drilling the exploitation wells.

After confirming the location of the exploitation wells, 5–10 production wells will be drilled to produce 50 MW steam. The steam shall be converted into electricity power by constructing the steam gathering facilities, piping, infrastructures and power plant within 2 years. A mix of equity and debt finance of the total amount of the capital expenditure will be about USD \$150 million.

Projected forecasts can be disclosed during the initial conversation with potential JVC financial and EMC partners. Yearly Projected Net Profit is estimated to be \$12 Million USD with an IRR of 16.2%. Please contact Dr. Tom Lannin at tlannin@gmail.com to discuss details and terms. The opportunity is open for 90 days. (*Posted ~Nov. 17, 2011*)



Industry/University Cooperative Research Centers, NSF (February 1)

The National Science Foundation requests proposals for Fundamental Research Program for Industry/University Cooperative Research Centers. Areas of interest include, but are not limited to: Energy and Environment; Advanced Manufacturing; Biotechnology; Advanced Materials; and Fabrication and Process Technology. \$1.6 million expected to be available, up to 10 awards anticipated. Responses due 2/1/12. For more info, contact Rathindra DasGupta at rdasgupt@nsf.gov or go to:

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf11570. Refer to NSF 11-570. (Grants.gov 8/10/11)

Sustainable Energy Pathways, NSF (February 1)

The National Science Foundation requests proposals for Sustainable Energy Pathways. This RFP will support interdisciplinary efforts by teams of researchers to address the challenges of developing efficient pathways towards a sustainable energy future. \$34 million expected to be available. Responses due 2/1/12. For more info, including agency contacts, go to:

http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf11590. Refer to Sol# 11-590. (Grants.gov 9/22/11)

Environmental Engineering, Energy for Sustainability, and Environmental Sustainability, NSF (February 17)

The National Science Foundation requests proposals for the following programs, with responses due 2/17/12. :

- **Environmental Engineering.** The goal of this program is to encourage transformative research which applies scientific principles to minimize solid, liquid, and gaseous discharges into land, inland and coastal waters, and air that result from human activity, and to evaluate adverse impacts of these discharges on human health and environmental quality. \$9.4 million expected to be available, up to 44 awards anticipated. For more info, contact Paul Bishop at pbishop@nsf.gov or go to:
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501029. Refer to Sol# PD-12-1440. (Grants.gov 6/8/11)
- **Energy for Sustainability.** This program supports fundamental research and education in energy production, conversion, and storage and is focused on energy sources that are environmentally friendly and renewable. Sources of sustainable energy include: Sunlight, Wind/Wave, Biomass, and Geothermal. \$9.2 million expected to be available, up to 42 awards anticipated. For more info, contact Gregory Rorrer at gorrer@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026. Refer to Sol# PD-12-7644.
- **Environmental Sustainability.** This program supports engineering research with the goal of promoting sustainable engineered systems that support human well-being and that are also compatible with sustaining natural systems. \$5.4 million expected to be available, up to 45 awards anticipated. For more info, contact Bruce Hamilton at bhamilto@nsf.gov or go to:
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027. Refer to Sol# PD-12-7643. (Grants.gov 6/8/11)



For Students! Regional Energy Department Business Plan Competitions (March 2)

The Regional Clean Energy Business Plan Competition is accepting business plan submissions until March 2, 2012. Based in California, Colorado, Illinois, Maryland, Massachusetts, and Texas, the six regional competitions to transform great clean energy ideas into great businesses span the entire nation and all U.S. territories. Submission deadlines vary and range to March 2, 2012. Be sure to individually check regional competitions and the corresponding deadline [here](#). The six regional winners will each receive \$100,000 in prize money and a chance to compete for a National Grand Prize at a competition held at DOE headquarters in Washington, D.C., in the summer of 2012.

See the [Energy Blog post](#).

Renewable Energy, Hawaiian Electric Company

Hawaiian Electric Company (HECO) RFP seeking at least 200 megawatts (MW) of renewable energy projects for Oahu. The RFP is open to any commercially viable renewable technology that can generate electricity on Oahu or on another island from where energy can reasonably be transmitted to Oahu via undersea cable system, no later than December 31, 2018. The formal RFP is expected to be released March 31, 2012. Contact: Peter Rosegg, peter.rosegg@heco.com or 808-543-7780

Events

New This Week

Webinar, Geothermal Exploration Technologies in the U.S., DOE (February 15)

The Department of Energy's Geothermal Technologies Program (GTP), in partnership with Western Area Power Administration, is offering a free one hour webinar on February 15, 2012 at 10:00 am MST entitled: Geothermal Exploration Technologies - How and where are they being used in the U.S. Geologists are now using a combination of new exploration technologies and historically available technologies applied in unique combinations to determine the geothermal potential in an area of interest. The webinar will focus on the applications of these combinations, which include: seismology, which began with a significant role in the oil and gas industry; gravimetry studies, which can identify granite bodies that are indicators of geothermal potential; tellurics and magnetotellurics, which can detect resistivity anomalies associated with productive geothermal structures; and geochemistry, which relates surface fluid properties and geologic data to geothermal bodies. Register at: <https://www1.gotomeeting.com/register/451246161>



GEA and GEA-Sponsored Events

Geothermal Track, Renewable Energy World North America Conference and Expo, Long Beach, CA (February 14–16)

The 2012 Renewable Energy World North America Conference and Expo event will take place February 14-16 in Long Beach, California — please save the date! GEA is on the planning committee and will be exhibiting on the Expo floor. Additional participation and sponsorship opportunities are available. Register for the conference: <http://www.renewableenergyworld-events.com/index/registration-information.html>.

The Geothermal Track sessions will highlight:

- Geothermal Policy and Economics
- Geothermal Plant Systems and Technology
- Geothermal Energy and Waste Heat Recovery

Speakers from the geothermal community will include: Halley Dickey, TAS Energy; Karl Gawell, Geothermal Energy Association; Joe Lillard, Atlas Copco Mafi-Trench; John McIlveen, Jacob Securities Inc.; Josh Nordquist, Ormat Technologies; Mike Ronzello, Pratt and Whitney Power Systems; Bruno Vanslambrouck, HOWEST, University College of West Flanders; Kelsey Walker, TAS Energy; A. Scott Weber, University of Buffalo; Harvey Wen, Bechtel Power Corp.; and Gary Zyhowski, Honeywell.

CPC Pre-conference Workshop on Geothermal Energy, Renewable Energy World Conference North America and Expo 2012 (February 14)

Date: February 14; Time: 8:00 AM – 12:00 PM; Room: 203C; Registration Fee: \$375.00, includes workshop materials, certificate of completion and coffee break. Register by adding this course when you register for the conference: COMPETITIVE POWER COLLEGE (CPC) PRE-CONFERENCE WORKSHOP 201 GEOTHERMAL ENERGY IN CALIFORNIA at <http://www.renewableenergyworld-events.com/index/registration-information.html>.

Geothermal Energy 101: California and Beyond, Course Overview: The basics of geothermal energy development will be described in the context of California's 50 years of experience with conventional hydrothermal energy production. This course discusses key aspects of geothermal energy development in California and the technologies used there and at other conventional geothermal development sites



around the world. The course objective is to provide the necessary foundation for attendees interested in developing conventional geothermal energy projects, including geothermal reservoir basics, drilling and engineering technologies, economic business models, and industry specific issues. **Course Instructors:** Louis Capuano, Jr., founder and Chairman of the Board of ThermaSource, Inc.; Karl Gawell, Executive Director of the Geothermal Energy Association; John McKinsey, who chairs the robust Geothermal Energy practice at Stoel Rives, LLP; and Maria Richards, who coordinates the Southern Methodist University's Geothermal Laboratory.

Sponsorship Opportunities for GEA Events

Your company has the opportunity for high visibility at GEA's 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. Events are updated at: <http://geo-energy.org/events.aspx>.

Events currently listed for 2012 are:

- February 14-16, 2012 Renewable Energy World Conference and Expo - Long Beach, CA (GEA is a supporting organization for this event)
- May 23, 2012 GEA International Geothermal Energy Showcase - Washington, DC
- August 7-8, 2012 GEA National Geothermal Summit 2012 - Sacramento, CA
- Sept. 30-Oct. 2, 2012 GEA Geothermal Energy Expo® and GRC Annual Meeting - Reno, NV

Other Events

Two Geothermal Leases Up for Bid, BLM, Colorado (February 9)

At its quarterly oil and gas lease auction, the BLM in Colorado will offer two parcels allotted for geothermal energy development. The sale is on February 9 at the BLM State Office, 2850 Youngfield Street, Lakewood, Colorado 80215; Telephone 303-239-3600.

Leases issue for a primary term of 10 years. Annual rental is \$2 per acre for the first year (paid to BLM), \$3 per acre for the second through tenth year, and \$5 per acre per year thereafter. Once the site is producing for commercial generation, royalty rates are 1.75% for the first 10 years of production and 3.5% thereafter. Lands that do not receive a bid are available for a two-year period beginning the first business day after the sale.



The first geothermal parcel includes 4,587.77 acres of BLM land. The second geothermal parcel includes about 3,765.49 acres of U.S. Forest Service land. The BLM's resource management plan for Gunnison includes stipulations for geothermal leasing that protect geologic hazards, the Gunnison sage-grouse, and senior water rights.

Contacts: Ms. Sharon A. Sales, sharon_sales@co.blm.gov, (303) 239-3987; Mrs. Rebecca Skinner, rebecca_skinner@co.blm.gov, (303) 239-3780; or Mr. Kristian Lee, kristian_lee@co.blm.gov, (303) 239-3786. Additional lease sale information can be obtained online at: www.blm.gov/co/st/en/BLM_Programs/oilandgas/leasing.html, or by contacting the address above. The bid form for successful bidders (Form 3000-2, dated August 2007) can be found at: <https://www.blm.gov/FormsCentral/show-home.do>

GEOTHERMAL ENERGY WEEKLY

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

© 2012 Geothermal Energy Association

209 Pennsylvania Ave SE Washington DC 20003

Phone 202 454 5241 Fax 202 454 5265

leslie@geo-energy.org

