



GEO THERMAL ENERGY ASSOCIATION

209 Pennsylvania Avenue SE, Washington, D.C. 20003
Phone: (202) 454-5261 Fax: (202) 454-5265
www.geo-energy.org

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National News

Department of Interior Announces Final PEIS for Geothermal Energy

Press Release Highlights—October 22, [Kempthorne Launches Initiative to Spur Geothermal Energy and Power Generation on Federal Lands](#)

Secretary of the Interior Dirk Kempthorne today announced a plan to make more than 190 million acres of Federal lands available for developing geothermal energy resources, an initiative that could increase electric generation capacity from geothermal resources ten times over. Under the development scenario outlined in the plan -- known as the Final Geothermal Programmatic Environmental Impact Statement -- the initiative could produce 5,540 MW of new electric generation capacity from geothermal resources in 12 western states (including Alaska) by 2015.

“Geothermal energy will play a key role in powering America’s energy future,” Kempthorne said, “and 90% of our nation’s geothermal resources are found on Federal lands. Facilitating their leasing and development under environmentally sound regulations is crucial to supplying the secure, clean energy American homes and businesses need.”

The plan, when put into action by a Record of Decision, would identify about 118 million acres of Bureau of Land Management-managed public lands and 79 million acres of National Forest System lands for future geothermal leasing. It would provide a list of appropriate stipulations to be applied to leases and amend 122 Bureau of Land Management land use plans to allow for geothermal development under them.

Kempthorne noted the strong interest states, local communities, industry and environmental groups took in the development of this plan.

Geothermal leasing revenues and royalties are shared with the States and counties where the leases are located, with 50% going to the State; 25% to the county and the remaining 25% to the Geothermal Royalty Fund of the Bureau of Land Management for investing in further geothermal planning and development.

Lands withdrawn from or administratively closed to geothermal leasing will remain so. For example, lands within a unit of the National Park System, such as Yellowstone National Park, will continue to be unavailable for leasing.

In addition to laying the foundation for environmental analysis of future geothermal leasing, the plan also provides site-specific environmental analysis of 19 pending geothermal lease applications in seven geographic locations. These leases were filed before Jan. 1, 2005 for specific lands in Alaska, California, Nevada, Oregon and Washington managed by the Forest Service or the Bureau of Land Management. Decisions on the issuance of these 19 leases could proceed as soon as the Record of Decision is signed.

The governors of the 12 states in the plan's project area will each have the opportunity to review the final document to ensure consistency with state plans, programs, and policies.

The Bureau of Land Management and the U.S. Forest Service will publish the final version of the plan in the Federal Register on Friday, Oct. 24, 2008. It will be available online at http://www.blm.gov/Geothermal_EIS.

See also <http://www.doi.gov>.

WGA Recognizes Potential of Geothermal Resources in Transmission Efforts

Western Governor's Association Recognizes Vast Potential of Geothermal Resources in Renewable Energy Transmission Planning Effort

~ by John McCaull, Western States Representative for GEA, john@geo-energy.org

October 20, 2008. As part of their [Western Renewable Energy Zone Project](#), the Western Governor's Association (WGA) has committed to including and analyzing the vast potential of geothermal resources in the Western United States. The [Western Governors' Association](#) and [U.S. Department of Energy](#) launched the Western Renewable Energy Zones (WREZ) Project in May 2008. The central goal of the WREZ Project is to identify those areas with vast renewable resources and then expedite the planning and development of new transmission lines to deliver clean and renewable energy to load centers throughout the West. Participating in the project are 11 states, two Canadian provinces, and areas in Mexico that are part of the [Western Interconnection](#).

In cooperation with leading researchers and consultants assisting the WGA, the Geothermal Energy Association was successful last month in including the latest data on medium and high temperature resources in the WREZ resource mapping process. In the last 8 years, newly refined "heat flow" mapping techniques, technological advances and publication of comprehensive studies indicate that geothermal resources have the potential to generate renewable energy in the next 10-20 years on par with the highest estimates for solar and wind technologies. The WREZ initiative recognizes that there may be geothermal energy potential available on the order of a hundred thousand (100,000) MW or more in the Western Interconnection.

At the request of the Geothermal Energy Association, the WGA has solicited the input of private sector geothermal developers, research institutions and government agencies, and has compiled a resource map and MW power production table that shows the varied and significant potential for use of geothermal resources to meet western states' energy demand, "renewable portfolio standards" (RPS) goals for western states and climate change emission reduction targets.

Recent resource assessments for renewable energy transmission planning have targeted conventional geothermal resources with a very high degree of resource certainty, specifically those with known development activity. WREZ will use a similar approach in identifying geothermal projects for zone identification and transmission planning purposes. However, the WREZ work plan requires a full analysis that "identif[ies] all commercial renewable resource potential..." As John McCaull, the Western States Representative from GEA stated, "Simply put, it is important to know what the total geothermal resource are in the Western U.S. and it is also important to know what the cost would be to generate that power. We commend the Western Governor's for realizing that geothermal power has just as much long-term resource potential as wind and solar, and for recognizing the complementary nature of all of these renewable energy sources."

In the geothermal resource assessment, WREZ has agreed to include what are traditionally considered utility-scale conventional resource areas (i.e. hydrothermal) and mapped and quantified the potential of several other uses and technologies. These include Enhanced Geothermal Systems (EGS), known direct-use areas, small power areas, and co-production opportunities in oil and gas fields. These “layers” will all be mapped as part of the WREZ process.

WREZ will also include all the historic and current federal lands geothermal lease application data from the Bureau of Land Management (BLM) as a map overlay, including new 2008 lease sales. This data is an excellent representation of commercial interest, and shows a historic increase in leasing activity in geothermal areas for 2008 in Nevada alone of \$28.2 million for a total of 105,211 leased acres.

For WREZ, these geothermal resource areas have been identified from a variety of public domain information sources including government assessments of geothermal potential, research papers and maps created by universities and national labs, industry publications and press releases, leasing records, and direct responses from geothermal developers to solicitations for information. After reviewing the assessment data, WREZ will determine which states have geothermal resources of sufficient size to warrant further consideration for zone identification and transmission planning. Based on existing data, WREZ will be able to differentiate between uses for geothermal resources, and it may be determined that smaller scale uses do not need large-scale interstate transmission solutions. This approach serves the need of identifying resources for specific transmission lines, and avoids the historic problem of underestimating the overall potentially available geothermal resources.

In order to ensure a return on investment in transmission planning, the economic viability of the renewable energy technology must be used as a “screen” for transmission planning purposes. The limiting factor in utilizing the true “commercial” potential of geothermal energy is, at this point, largely a question of investment choices in resource development. In other words, just like wind and solar, we know the resource is there in abundance, but how much should be invested in R&D and project development to actually utilize the resource on a scale that will (at least) ensure the success of western states’ RPS standards?

Based on the quality of geothermal resources in the WREZ planning area, it is likely that various technologies will become more commercially available and widely deployed as new entrants invest in resources exploration and development. For example, Enhanced Geothermal Systems (EGS) enable the utilization of geothermal resources for power that have traditionally been considered uneconomical to develop. EGS produces heat and electricity by harnessing the energy from hot rock deep below the earth’s surface, expanding the potential of traditional geothermal energy by orders of magnitude.

Several research projects are underway in the U.S., Europe and Australia to determine the most effective methods of water use and heat recovery. Development of significant utility-scale EGS development is probably 10 years or more from widespread commercial use, but the recent infusion of interest and investment will lead to more experience in the development and operational aspects of EGS, and cost reductions will follow.

Finally, the overall WREZ economic and transmission planning process will necessarily examine the commercial viability of different technologies in different zones. This will presumably drive transmission planning and investment across the Western Interconnection. In looking at different economic viability measurements, geothermal energy technologies can and should receive consideration for their system-wide advantages that help stabilize the grid by providing very reliable baseload, capacity power as part of an ever-increasing renewables mix.

Company News

Raser: Thermo Funding Received, Plant Scheduled for Production

Press Release Highlights—October 20, Completion of Tax Equity Capital for Development of Raser's 10 MW Utah Geothermal Power Plant

Raser Technologies, Inc. (NYSE Arca:RZ) announced today that it has received the final \$21 million installment of the tax equity payment under a definitive agreement that provides project financing and tax equity capital for Raser's 10-MW Thermo geothermal power project near Beaver, Utah. The funding arrangement previously provided approximately \$30 million of non-recourse debt financing and tax equity capital to construct the Thermo geothermal power plant. Under this arrangement, the tax equity capital is provided by Raser's tax equity partner in exchange for most of the tax benefits provided by the renewable energy project.

Brent M. Cook, Raser's CEO, commented, "The receipt of the final funding for the Thermo project financing marks another significant milestone towards executing our innovative development strategy for producing clean renewable energy that is important to our nation's energy future. This closing allows Raser to continue moving forward with our rapid deployment plans. We are proud to say that this first plant is scheduled to be producing power, in just six months from our groundbreaking in May of this year. That fact alone revolutionizes the building and operations of geothermal power plants as we have known them in the past. Before now, the average time to develop a geothermal power project has been approximately five to seven years. We believe this vast Thermo resource has the potential to support many additional development projects as we move forward with our rapid deployment strategy. The verification of this resource and its vast potential reserves is perhaps one of the most significant events in the history of the Company."

For the complete release and more releases from Raser, visit <http://www.rasertech.com/news.php>.

Raser: Thermo Ribbon Cutting Ceremony Scheduled for November 6

Press Release Highlights—October 23, Raser Completes First Commercial Geothermal Power Project in Utah in over 20 Years and Schedules Ribbon Cutting Ceremony and Press Conference ; Senator Orrin Hatch to Participate in Ribbon Cutting for Utah Renewable Energy Project

Raser Technologies, Inc. (NYSE Arca:RZ) announced today that it will hold a ribbon cutting ceremony to mark the completion of the first commercial geothermal power plant to be built in Utah in more than 20 years. Senator Orrin Hatch, along with other national, state and county government officials, has accepted Raser's invitation to participate in the ribbon cutting ceremony and press conference. The event is scheduled for November 6, 2008, at the Thermo power plant project site in Beaver County at 3:00 p.m. local time.

Raser previously announced the discovery of one of the largest geothermal resources in the nation in the past 25 years. It is estimated that the Thermo resource area may contain enough geothermal resources to power a third of the homes in Utah with zero emissions when fully developed. Using Raser's new proprietary modular power plant design, major construction for the Thermo project was completed in just six months, greatly reducing the normal five to seven year time frame required to develop a commercial geothermal power plant.

Raser is utilizing for the first time ever in a commercial scale power plant, new low temperature technology developed by UTC Power, a United Technologies Corp. (NYSE:UTX) company, to generate electrical power at the Utah site with zero emissions.

Senator Orrin Hatch said, "Raser Technologies is a company that has consistently pushed the envelope to develop and bring to market some of our nation's most advanced concepts in clean energy. Geothermal is clean and green, and it's abundant, especially in Utah. Unlike wind and solar, geothermal energy provides us a renewable source of base power. If we are interested in reducing carbon emissions on a significant basis, we must increase our green sources of base power. Today Raser Technologies is at the front of doing just exactly that."

For the complete release and more releases from Raser, visit <http://www.rasertech.com/news.php>.

Ormat: Geothermal Co-Production at Oil Well Proves Successful

Press Release Highlights—October 19, [Geothermal Energy Improves U.S. Oil Recovery](#)

Ormat Technologies, Inc. (NYSE: ORA) announces the successful co-production of geothermal power at a producing oil well. This project marks the first of its kind by providing onsite fuel free power that will increase the productivity and possibly extend the longevity of existing U.S. oil fields.

Ormat, in a joint project with the Department of Energy (DOE) at the Rocky Mountain Oil Test Center (RMOTC), validates the feasibility of proven technology already used in Geothermal and Recovered Energy Generation (REG) for the production of commercial electricity using hot water produced during the process of oil and gas field production. The project, conducted near Casper, WY, uses an Ormat Organic Rankine Cycle (ORC) power generation system to produce commercial electricity.

"With Ormat's advancement in binary turbine technology and the increased drilling for oil and gas exploration, the U.S. is primed for additional geothermal development," according to Dr. David Blackwell of Southern Methodist University.

The oil fields in the United States could provide an additional 5,000 MW of electricity for the United States through this technology, according to United States Senator Mike Enzi (R - Wyoming).

The Ormat ORC unit being used is similar to the 250 kW air-cooled unit that has been producing electricity from 210 degrees Fahrenheit geothermal water at an Austrian resort since 2001. Additionally, there are similar units in Nevada (700 kW) and Thailand (300 kW) that have been in continuous commercial operation and without overhaul, since 1984 and 1989, respectively.

Ormat is now assessing the feasibility of utilizing these wells to support on site power generation by employing Ormat's factory integrated sub MW geothermal power units, based on the Company's proprietary ORC technology, which has been field proven in installations totaling 1,000 MW worldwide.

See <http://www.ormat.com/relation.php?did=84>.

Western GeoPower: Company Announces Financing Results

Press Release—October 20, [Western GeoPower Closes First Tranche \\$10.6 Million Financing](#)

TSX Venture Exchange Trading Symbol: WGP - Western GeoPower Corp., a renewable energy development company, is pleased to announce that it has closed the first tranche of the \$25 million non-brokered private placement announced August 7, 2008.

The Company issued 42,732,960 units at a price of \$0.25 per unit for total gross proceeds of \$10,683,240. Each Unit consists of one common share and one transferable share purchase warrant exercisable into one common share for a period of 24 months from closing at a price of \$0.45 per share during the first 12 months and \$0.50 per share during the last 12 months. The units issued in the financing are subject to a four month hold period ending February 4, 2009.

The warrants are subject to an acceleration provision, which provides that, if the Company's shares trade at \$0.50 or more for ten consecutive trading days during the first year or \$0.55 or more for ten consecutive trading days during the second year, it will trigger a 30 day timeframe within which to exercise the warrants or they will expire.

In addition to the above, the Company issued an additional 2,530,078 Units for a finder's fee of 6% payable in units on a portion of the proceeds. These units are also subject to a four month hold period ending February 4, 2009.

See <http://www.geopower.ca/newsp1.htm>.

Western GeoPower: WGP-1 “Most Productive Well” at Geysers in Two Decades

Press Release Highlights—October 22, [Western GeoPower Drills 50% of Steam Resource with 3 Wells](#)

TSX Venture Exchange Trading Symbol: WGP – Western GeoPower Corp., a renewable energy development company, today announced that 50% of the steam resource required to supply the planned 35 MWe Western GeoPower Unit 1 plant at The Geysers Geothermal Field in California, has been successfully placed behind pipe with the drilling and completion of the third well, WGP-3. The three wells have established a power capacity of 19.7 MW (gross) or 17.8 MW (net). Well WGP-3 is located approximately one mile northwest of the WGP-1 well.

Flow testing carried out by independent consultants GeothermEx, Inc. on completion of well WGP-3 has demonstrated an initial steam production rate of 114,000 pounds per hour at a flowing wellhead pressure of 80 psia.

“The results of drilling to date have been very satisfactory, with well WGP-1 being the most productive well drilled at the Geysers over the past two decades and well WGP-3 being one of the most productive,” said Dr. Subir Sanyal, President of GeothermEx. “The average well capacity of the three wells is far above the average capacity at The Geysers field today.”

The rig is being skidded across the pad to begin drilling well WGP-4 which is designed to intersect known productive zones accessible from the current pad. Completion of WGP-4 is projected for early 2009. The drilling program is scheduled for completion in late 2009 and the 35 MWe Western GeoPower Unit 1 plant is projected to start commercial operations in early 2010.

For the complete release and more news from Western GeoPower, see <http://www.geopower.ca/newsp1.htm>.

Renewable and Climate Change News

Geothermal Investment Explored in Two Articles

Two recent news articles focus on investing in geothermal energy. “The Art of Geothermal - Investing in and Capitalizing on the Heat Beneath Your Feet” from renewableenergyworld.com acknowledges the expensive capital required to finance geothermal projects but argues that ultimately the potential of this energy source outweighs the risks.

A renewableenergystocks.com article, “A Financial Model For Geothermal Development,” talks about the high price and other problems of petroleum and traditional fuels, leading to the increased relevance of the alternative energy market. “One might well argue that, in those many regions with the proper physical characteristics, no form of alternative energy surpasses geothermal technology for cost competitiveness, efficiency of generation, and gentility to the environment,” the article states.

“Unlike many other types of alternative-energy projects, the successful geothermal Venture requires no scientific advancement, needs no further engineering to implement the necessary technology, poses a remarkably manageable risk of commercial failure, demands a relatively modest amount of capital, presumes no particular level of internally developed expertise, satisfies standards of environmental safety, and incites none of the larger controversies that shape today’s political debate,” the article concludes.

See <http://www.renewableenergyworld.com/rea/news/reinsider/story?id=53754> and <http://renewableenergystocks.com/News/100708a.asp>.

Geothermal Energy Spotlighted on MSNBC

The MSNBC Nightly News did a short segment on geothermal energy. Asgeir Margeirsson, CEO of Geysir Green Energy was interviewed. “Compared to some of the other alternatives, geothermal is a baseload, reliable power. Once you get it running, it’s there,” he said. The segment talked about Iceland’s geothermal background and showed clips from Iceland’s Blue Lagoon. It also pointed out geothermal hot spots in the U.S. The video can be seen at <http://www.msnbc.msn.com/id/21134540/vp/27324433#27324433>.

Environmental Groups Active in Senate Races

From Sustainable Energy Coalition/SUN DAY Campaign: Enviro Groups Broadening Efforts to Unseat Republicans

Increasingly confident of knocking off their top Senate targets in Colorado, New Mexico and New Hampshire, leading environmental groups have been shifting resources down-ticket in those states and moving into other battlegrounds. Environment America has shifted gears toward Senate races in Oregon, Minnesota and North Carolina. Defenders of Wildlife has been active in Alaska and Idaho House races while maintaining a heavy presence in Colorado and New Mexico. This month, the League of Conservation Voters plunked down \$365,000 for airtime to help defeat Sen. Elizabeth Dole, R-N.C. Sensing an opening in Oregon, Sierra Club Executive Director Carl Pope is visiting that state today.

Congress Daily, by Peter Cohn, October 21, 2008. See http://www.nationaljournal.com/congressdaily/cdp_20081021_2102.php.

Opinion Article Looks At Financial Bailout and Buildup of Clean Energy

From Sustainable Energy Coalition/SUN DAY Campaign: Bailout (and Buildup)

We can’t afford a financial bailout that also isn’t a green buildup — a buildup of a new clean energy industry that strengthens America and helps the planet. Washington could impose a national renewable energy standard that would require every utility in the country to produce 20% of its power from clean, non-CO₂-emitting, energy sources — wind, solar, hydro, nuclear, biomass — by 2025. Washington could impose a national requirement that every state shift utilities from getting paid for how much electricity or gas they get you to consume to getting paid for how much electricity or gas they get you to save. Modify the tax code so that any company that invests in new domestic manufacturing capacity for clean energy technology can write down the entire cost of the investment via a tax credit and/or accelerated depreciation in the first year.

New York Times, by Thomas L. Friedman, October 21, 2008. See <http://www.nytimes.com/2008/10/22/opinion/22friedman.html?ref=opinion>.

European Leaders Reach Climate Change Agreement at Summit

From EESI Climate Change News: EU Reaches Climate Change Agreement

On October 15-16, European leaders met for a two day summit in Brussels and agreed to maintain their targets and timetables for combating climate change, while making concessions to heavy industries and former communist countries. Europeans hope to enact their cap-and-trade program in 2009 and eventually draw other countries, including the United States, into a broader agreement. "The climate package is so important that we cannot simply drop it, under the pretext of a financial crisis," said EU President Nicolas Sarkozy of France. "On the climate package, we have obtained unanimity It is now for President Barroso [European Commission Chief] and myself to find solutions for those countries which have expressed concerns." Representatives also discussed the possibility of a November meeting of the world's major economic powers including China, Russia and India in New York. Talking points for November included supervision and regulation of markets, bank transparency, early warning systems for detecting impending crises, and a framework for a rapid, coordinated international response to a crisis.

For additional information, see

<http://www.reuters.com/article/environmentNews/idUSTRE49F39L20081016>,

http://ap.google.com/article/ALeqM5h_fkxnBI3-FZ5aibVXlv01Dc9DPwD93RQ5UG0, and

<http://news.bbc.co.uk/2/hi/europe/7673684.stm>.

State News

California: Fitch Assesses Long-Term Coso Project Holdings as Stable

Press Release—October 22, [Fitch Affirms Coso Geothermal Power Holdings, LLC at 'BBB-'; Outlook Stable](#)

Fitch Ratings has affirmed the 'BBB-' rating of Coso Geothermal Power Holdings, LLC's (CGP) pass-through trust certificates due 2026. Fitch believes the likelihood CGP will achieve originally projected long-term financial performance remains unchanged. Recent declines in the Coso geothermal project's energy output will be remedied with a sponsor-funded capital improvement plan and should not persist beyond the near term. The Rating Outlook is Stable, as CGP's financial performance is supported by fixed prices on energy sales through April 2012.

The rating is based on CGP's long-term financial profile, which is subject to volumetric risk associated with a potential decline in Coso's production capacity. Fitch has evaluated CGP's credit quality on a stand-alone basis, independent of the credit quality of its owners.

CGP has engaged in an accelerated capital improvement program designed to enhance Coso's steam production and energy output, which had been gradually declining. CGP intends to compress the existing schedule of long-term capital improvements into a relatively short two to three year time frame.

Through Terra-Gen, ArcLight intends to fully fund the accelerated program with a \$70 million equity contribution, demonstrating its support for the project in the near term.

CGP continues to pursue the permitting process for Coso's Hay Ranch project, which is expected to enhance and stabilize steam production through supplemental water injection. Inyo County, the local permitting authority, is currently reviewing the environmental impact report on the project.

Combined with the Hay Ranch project, the accelerated program has the potential to improve output beyond the sponsor's original projections over the next 5-10 years. Fitch does not view the program as a substitute for Hay Ranch, upon which CGP's long-term financial profile continues to rely.

For the complete release, see

http://www.businesswire.com/portal/site/google/?ndmViewId=news_view&newsId=20081022006213&newsLang=en.

Nevada: Jobs in Renewable Energy on the Rise

An article on kmv.com discusses job opportunities in geothermal energy, spotlighting Nevada and specifically Reno, where Ormat Technologies has its corporate headquarters and employs 1,000 worldwide.

“Ormat calls itself the technology leader in geothermal and recovered energy, boasting work supplying generating plants in 70 countries and having its own generating plants in five,” the article stated.

The article also mentioned job opportunities that came up at the Geothermal Energy 2008 Conference and Expo in Reno earlier this month.

See <http://www.krnv.com/Global/story.asp?S=9148071>.

Wyoming: Oilfields Tap Geothermal Power

The Rocky Mountain Oilfield Testing Center (RMOTC) and Ormat announced successful geothermal production from a producing oil well, according to wyomingbusinessreport.com (see also Ormat news release under **Company News**). 8,000 similar wells have been identified in Texas by the DOE Geothermal Research Project Office, the article said.

See <http://wyomingbusinessreport.com/article.asp?id=96681>.

International News

Dominica: Partnership Studying Geothermal Source, Drilling Expected June 2009

The Government of Dominica, the European Union, The Regional Council of Guadeloupe, the Agence Francaise de Developpement, and other French development partners plan to develop the geothermal resource in Dominica, according to dominicanewsonline.com.

The first preliminary phase, “Geothermal Energy in the Caribbean Islands,” involves geological, geophysical and geochemical analyses and related environmental and feasibility studies of the resource. A partnership agreement for this phase was signed in April with the Regional Council of Guadeloupe, the Regional Council of Martinique and other French development partners. A report is due at the end of November.

The second, more comprehensive phase, is called “Preparation of a Geothermal-Based Cross Border Electrical Interconnection in the Caribbean.” Among its goals, it will determine whether the resource will generate a significant amount of electricity and will also determine feasibility of underwater transmission to Guadeloupe and Martinique.

“This is the most significant development program for Dominica. It is as if we have discovered oil, onshore or offshore and we were in the process of seeking to exploit that resource,” the Minister told press.

See <http://www.dominicanewsonline.com>.

Iceland: Article Highlights Geothermal World Leader

An article in Scientific American describes Iceland's "enormous underground reservoirs of water" and "shallow plumes of magma that heat the deepest reaches of these reservoirs" — a poetic way of saying that Iceland is a geothermal explorer's dream.

The article goes over Iceland's history utilizing the heat of the earth and how it has changed through time. Today Iceland has the largest district heating system in the world. It is also the "leading exporter of geothermal expertise to the rest of the world."

Also discussed is a venture from the Iceland Deep Drilling Project (IDDP), which includes the Icelandic government, the U.S. National Science Foundation, the European Union and Alcoa to tap supercritical steam. This is steam in excess of 750°F, as dense as liquid water, and "would yield five to 10 times as much energy per unit of volume extracted from the Earth," according to Sverrir Thórhallsson, head of ÍSOR's engineering department, the article said.

See <http://www.sciam.com/article.cfm?id=iceland-geothermal-power>.

Indonesia: Two New Geothermal Plants to Contribute 122 MW by 2009

Two geothermal plants in Indonesia could be in operation by next year, according to *The Jakarta Post*. The two are the Wayang Windu plant's unit 2 in West Java and the Sibayak plant in North Sumatra. These plants will have a combined capacity of 122 MW, the article said.

The government has said geothermal power will contribute 30% to its second 10,000 MW power plant construction program, the article stated. Indonesia is ranked first in the world for largest geothermal reserves. The estimated capacity is up to 27,000 MW — around 40% of the world's geothermal reserves.

See <http://www.thejakartapost.com/news/2008/10/22/two-new-geothermal-power-plants-operate-2009.html>.

Kenya: Power sector rescue plan in danger

An article on bdafrica.com addresses problems in the Kenyan energy sector. Insufficient rainfall over the past 10 months has been hard on the hydro power sector, which Kenya relies on heavily. The government wants to move toward a geothermal-based power industry that would not be dependant on weather. Current geothermal production is at 130 MW of power, though Kenya's potential is estimated at 7, 000 MW.

Financing is down, cost of electricity has more than doubled since June, and financial experts say that there is a current overall "unfriendly credit environment" on the international scale. The government is now looking to the private sector to help fund power projects. The article says that Vision 2030, Kenya's plan to attain status of a middle income country by 2030, could be in danger.

See http://www.bdafrica.com/index.php?option=com_content&task=view&id=10556&Itemid=5822.

Netherlands: Mineshaft Uses Geothermal to Heat Homes

In the Netherlands southern province of Limburg, a town called Heerlen is home to the first geothermal power station in the world using water heated naturally in the deep shafts of old coalmines, according to timesonline.co.uk. The abandoned mineshafts were linked to a geothermal station to pump water up from its depths. The water heats 350 homes.

See <http://www.timesonline.co.uk/tol/news/environment/article4887672.ece>.

Nevis: Two Drill Sites Could Produce Hundreds of Megawatts of Geothermal Power

West Indies Power (WIP) officials confirmed that at least two geothermal drill sites could produce hundreds of megawatts of geothermal energy, according to the Nevis Government Information Service. WIP and the Nevis Island government expressed their excitement at the discovery.

“Obviously we are elated as a people, as a government. We are happy for West Indies Power... This really means that we are on the right road, that we will very shortly be able to produce power for the people of Nevis and this is just another in our quest to reduce the cost of living in Nevis,” Junior Minister with responsibility for Public Utilities and the Environment Carlisle Powell told press.

The \$10m production rig is on its way to the island, the article said. Permanent Secretary in the Ministry responsible for Public Utilities and the Environment on Nevis Ernie Stapleton said the discovery is equal to that of oil. Geothermal energy will elevate Nevis’ economic development, he told press.

See <http://www.queencitynevis.com/NewsArticle.cfm/2847>.

Philippines: Mailum Geothermal Plant to Resume Operations

The North Negros Geothermal Power Plant Field will resume production early next year, according to the Philippine Information Agency. The plant shut down in July for repair and will start back up with a 15 to 20-MW capacity in January or February.

See <http://www.pia.gov.ph/Default.asp?m=12&fi=p081021.htm&no=70&r=&y=&mo=>.

Philippines: Archbishop Calls Geothermal A “Gift of Nature”

The Catholic Bishops Conference of the Philippines (CBCP) and Jaro Archbishop Angel Lagdameo, who had previously opposed geothermal production in Negros Occidental, now support the project, according to gmanews.tv.

"We must take advantage of the gifts of nature which offer healthier and less destructive options. If out of necessity, trees are to be cut and environments are to be restructured, it must be for a greater reason, in accordance with approved laws and in the spirit of true stewardship of creation for the benefit of all," Lagdameo said in a letter to EDC chairman Oscar Lopez, according to press.

The article says that Lagdameo’s change of heart came after the EDC provided him with more information on the controversial Mt. Kanlaon Natural Park buffer zone geothermal project.

See <http://www.gmanews.tv/story/128635/CBCP-chief-now-backs-geothermal-project-in-Negros---report>.

Philippines: Japanese Company Expresses Interest in Philippine Geothermal Stake

Japanese trading house Marubeni Corp plans to buy 40% of First Gen Corp, which has a 60% controlling stake in Energy Development Corp (EDC), a geothermal power producer, according to Africa.reuters.com. The involved parties expect to complete the transaction within the current quarter, the article said.

See <http://africa.reuters.com/instrument/gan.php?i=61067735>.

Notices and Employment Opportunities

DOE Announces Open Geothermal Technologies Funding Opportunity

From DOE's Web site:

GTP has issued a Funding Opportunity Announcement (FOA) for up to \$5 million over five years. This work will create and maintain a web-based National Geothermal Database that will help to overcome barriers to the development of conventional and Enhanced Geothermal Systems.

Initial estimated total funding for this award is listed at \$1,300,000 in FY2009; with additional anticipated funds of \$3,700,000 in years FY2010 through FY2013, subject to the availability of Congressional appropriations. DOE anticipates making one award under this announcement.

Geothermal energy has the potential to emerge as a capable alternative to conventional energy resources due to its renewable baseload capabilities, little to no carbon emissions, and affordability relative to other alternative energy technologies. In early 2008, GTP initiated the Geothermal Risk Mitigation Strategies Report ([PDF 778 KB](#)) to analyze the risks involved with geothermal energy development.

The report proposed strategies to overcome barriers to development and to enable additional investment in conventional and enhanced geothermal systems. As a result of this study, GTP is initiating an effort to create the National Geothermal Database to serve as a central repository for all publically accessible geothermal data.

Creating, maintaining, and operation this database is the subject of this FOA, titled National Geothermal Database and you can find further on and requirements for responding to this Geothermal FOA DE-PS36-08GO98020 as part of the DOE [Industry Interactive Procurement System](#).

You can also access and download the complete Announcement DE-PS36-08GO98020 ([PDF 102 KB](#)).

U.S. EPA Calls for Climate Choice Nominations (December 1)

The Climate Protection Partnerships Division of the U.S. Environmental Protection Agency (EPA) invites technology nominations for the Climate Choice recognition. Climate Choice is a voluntary partnership program that recognizes emerging and advanced technologies with the potential to significantly reduce greenhouse gas emissions.

To be considered for Climate Choice recognition, technologies must meet the following criteria:

- Commercially available, but not widely adopted
- Offered by more than one company
- Demonstrated environmental performance
- Likely to significantly reduce greenhouse gases at competitive costs
- Does not unduly increase other forms of pollution in order to reduce greenhouse gas emissions
- The technology is adequately financed and suppliers have an established business record

For further information, visit: www.epa.gov/cppd/climatechoice or contact Kristen Taddonio: 1 (202) 343-9234, Taddonio.Kristen@epa.gov

Employment: Research Associate II, SMU Geothermal Laboratory

Position: The SMU Geothermal Laboratory, Dallas, Texas, has an opening for a Research Associate II for an appointment of 2 years. The research is supported in part by a grant from GOOGLE.org to SMU. The activities associated with the position relate to the temperature field of the U.S. lithosphere. The outcome is the ability to make sound resource related renewable energy decisions. This research will build on the

extensive thermal data sets used to produce the 2004 Geothermal Map of North America by collecting new data and modeling the regional thermal structure.

Qualifications: A PhD in geosciences is strongly preferred or an MS in geophysics and 3 years of work experience. Candidates must demonstrate strong analytical/critical thinking skills to identify issues and information requirements, apply appropriate research and analytical procedures, and review data with a strong focus on attention to detail and accuracy.

Apply online at <http://smu.edu/hr/recruit/> search for “geothermal”
Contact: Dr. David Blackwell, blackwel@smu.edu, 214-768-2745

Employment: Renewable Energy Employment Opportunities, Ram Power, Inc.

Exciting Renewable Energy Employment Opportunities with New Geothermal/Solar Thermal Energy Project Company

Ram Power, Inc., a recently formed renewable geothermal and solar thermal project development company, with offices in Reno, Nevada and Los Angeles, California has openings for professionals with a minimum of five years experience in the following fields:

Mechanical Engineer – renewable energy power generation
Geologist/Geophysicist/Geochemist – geothermal or mining
Environmental/Permitting – federal and state regulations
On-site Drilling Supervisor – well field operations

These positions will be based in either Reno or Los Angeles and include a full employment benefits package with salaries based on experience. Send resume to Attn: Human Resources, Ram Power, Inc. 691 Sierra Rose Drive, Suite B, Reno Nevada, 89511 or email to info@ram-power.com.

Employment: Geothermal Engineering Analyst, National Renewable Energy Laboratory

Geothermal Engineering Analyst—Requisition #114BR or 115BR—Washington, D.C.

Job/Research Summary: This position performs technology, market and economic analysis, with an emphasis on geothermal energy technology, systems, and infrastructure. Work carried out will support R&D and decision-maker support activities within the Geothermal program through the use of analysis methodologies such as economic feasibility, market transformation, risk, portfolio balance, and cost-versus-benefit. Design novel approaches for systems and infrastructure analysis. Deliver quality products that synthesize the inputs of team members, researchers, market players, and other analysts. Innovate new methods, tools, and approaches that enable greater understanding of geothermal systems.

Job Duties: Combines broad, in-depth knowledge of chemical and/or mechanical engineering with an emphasis on process, heat transfer, and fluids engineering with strong economic analysis capabilities. Performs engineering/economic analyses of geothermal systems and electric transmission in cooperation with research community to gather and understand field data. Documents work in detailed technical memos and internal milestone reports; publishes and presents key results in peer-reviewed journals and at regional, national, and international scientific meetings and conferences. Supports the development of annual operating plans and assists with strategic planning efforts. Works with Department of Energy on technology goals and opportunities.

Minimum Qualifications: Bachelor's Degree in science and/or engineering, or equivalent/relevant education/experience. 3 years of relevant R&D experience.

Preferred Qualifications: Multidisciplinary research exposure to both chemical and mechanical engineering systems, especially those related to the development of cost-effective geothermal systems for utility-scale applications. Familiarity with value chain analysis, risk analysis, and dynamic modeling. Experience in the development and evaluation of applied technology aimed at entering the marketplace. Previous industry experience in renewable energy and geothermal technologies, with experience in related analysis. Established base of contacts with individuals and institutions relevant to energy analysis. Experience working with the federal government. Some experience with computer modeling of energy markets.

Pre-employment drug testing required.

Please visit our website for more information and to apply online: www.nrel.gov/employment/

NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

Employment: Sales Manager, Ormat Technologies

Ormat Technologies has an immediate opening for a full time Sales Manager located in our Reno, NV. The ideal candidate will 10+ years in related Sales experience in the energy/renewables industry.

Position Title: Manager of Sales, Geothermal Development; Department: Business Development; Location: Corporate Office Reno, NV; Reports to: Director, Geothermal Development; Position Summary: The Manager of Sales, Geothermal Business Development, will be responsible for the sales and marketing of renewable energy products. The selected candidate will help lead the commercialization and sales efforts for Ormat's latest geothermal supply of geothermal plant equipment, electrical power generation projects, as well as the supply of engineering and construction services for 3rd Party power projects.

Essential Functions: Develop detailed sales and marketing strategies to grow sales within the power generation industry; Conduct market segmentation research, identify lead databases and determine sales channels to establish customer opportunities and spearhead direct sales efforts; Manage customer relationship from initial feasibility trials through to field deployment.

Other Responsibilities: Work flexibly within a dynamic, multidisciplinary team.

Education, Experience and Skills Required: Minimum of 10 years experience in a similar position; Bachelor's degree in Marketing or related field or equivalent experience and/or technical qualifications relevant to the geothermal applications, as well as Engineering and Construction; Experience in marketing or application engineering; Experience working directly with customers in a sales organization with strong communication and interpersonal skills.

Physical Requirements: Must be able to travel regularly

To apply for the position please send a resume to Chris@redfishtech.com.

Employment: Engineer V, Geothermal Experience Preferred, Northern California Power Agency

Performs engineering tasks relating to plant reliability/ performance efficiency, primary technical resource for CMMS, supervises implementation of system/equipment repairs/upgrades, PM for plant efficiency upgrade/retrofit projects, construction mgr for public works projects, supervises plant chemical lab & environ, health/safety staff. First 4–6 months, position assigned to NCPA HQ office/Roseville, then GEO Plant, Middletown, CA thereafter. During initial period in Roseville, temp housing provided if required.

Requires BA in electrical/mechanical engineering; MA preferred; and min 10 yrs exp plant/production engineering, preferably within geothermal industry; 2 yrs experience plant reliability/ maintenance engineering & 2 yrs mgmt. exp preferred. Requires knowledge/experience in industry codes/standards; CMMS, Root Cause Failure Analysis, Reliability Centered Condition Based/Mntc, CBM equip; steam turbine plant monitoring & power plant electrical sys; writing, analyzing/interpreting scientific/tech info.;

making presentations and some travel in CA. Starting salary: \$96 to \$121K plus exc employer benefits inc CalPERS retirement/medical.

Application at www.ncpa.com, submit to NCPA HR, 651 Commerce Dr., Roseville, CA 95678. Open until filled.

Requests for Proposals (RFPs)

RFP for Transit GHG Strategies, U.S. Department of Transportation (November 3)

The U.S. Department of Transportation requests proposals for the Transit Greenhouse Gas (GHG) Emissions Management Compendium. Through this initiative, DOT seeks a compendium of strategies for transit agencies to reduce the GHG intensity of their services. The compendium will serve as a central information point, as well as a useful handbook to transit managers in planning and decision-making. \$175K expected to be available, 1 award anticipated.

Responses due 11/3/08. For more info, contact Jarrett Stoltzfus at Jarrett.Stoltzfus@dot.gov or go to: http://www.fta.dot.gov/funding/grants_financing_7829.html. Refer to Sol# D2008-GHG-TRI. (Grants.gov 9/16/08)

RFP for Small Business Innovation Research and Small Business Technology Transfer, DOE (November 20)

The U.S. Department of Energy requests proposals for Phase I of the Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs. SBIR/STTR seeks to increase private sector commercialization of technology developed through DOE supported R&D, stimulate technological innovation in the private sector, and improve the return on investment from Federally-funded research for economic and social benefits to the nation. Areas of interest include, but are not limited to: Advanced battery electrode development, advanced materials and technologies for cooling and waste heat recovery, energy efficient membranes, technologies related to energy storage for hybrid and plug-in hybrid electric vehicles, energy savings technologies for commodity manufacturing industries, production of biofuels from biomass, advanced water power technology development, wind energy technology development, geothermal technologies, hydrogen, fuel cells, and infrastructure technologies, solar energy, improved motor designs and power electronics, advancements for hybrid and plug-in hybrid electric vehicles, and climate control technology for fossil energy applications. The complete list of topics is posted at: http://www.science.doe.gov/sbir/solicitations/FY%202009/C27_topics.pdf. \$36 million expected to be available, up to 360 awards anticipated.

Responses due 11/20/08. For more info, contact Carl Hebron at sbir-sttr@science.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/9648EC9FBF2AAE36852574C70063CD09?OpenDocument>. Refer to Sol# DE-PS02-08ER08-34. (Grants.gov 9/17/08)

RFP for Environmental Info Exchange, U.S. EPA (November 21)

The U.S. Environmental Protection Agency requests proposals for the Exchange Network Grant Program. The Network is an Internet and standards-based, secure information network that facilitates the electronic sharing, integration, analysis, reporting, and use of environmental data from many different sources. This program provides support to organizations to develop the information technology and information management capabilities needed to actively participate in the Exchange Network. \$11 million expected to be available, up to 50 awards anticipated.

Responses due 11/21/08. For more info, contact Edward Mixon at mixon.edward@epa.gov or go to: <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=42875>. Refer to Sol# EPA-OEI-09-01. (Grants.gov 9/17/08)

RFO for Carbon Offsets, Sacramento Municipal Utility District (mid-December)

From News Release—October 17, [SMUD Releases Request for Offers for Carbon Offsets](#)

The Sacramento Municipal Utility District (SMUD) released a Request for Offers (RFO) for 45,000 tonnes of carbon offsets to be delivered annually beginning in 2010. Proposals will be due mid- December 2008. The carbon offsets will be used to meet customer demand for SMUD's voluntary carbon offset program.

Projects which meet the rigorous standards of the California Climate Action Registry (CCAR) offset protocols will be given first preference. Local projects will be given preference in the project scoring as compared to projects which are located outside the Sacramento region. Projects constructed outside the state of California will not be evaluated in this RFO.

The October 2008 RFO is soliciting offers for carbon offset projects preferably developed according to one of the CCAR-approved protocols which include: dairy manure digesters, landfill gas, forestry and urban forestry, and protocols under development: natural habitat restoration, truck stop electrification, food and woodwaste diversions from landfills, energy efficiency retrofits, new cogeneration, bus fleet upgrades, bus rapid transit lanes and related mode shifting, and N₂O reduction in acid plants.

SMUD will host a Bidders Conference and Carbon Offset Project Development Workshop at SMUD on November 3, 2008 from 9 a.m. to 2 p.m. The Bidders Conference will cover information and questions on submitting proposals to this RFO. The Carbon Offset Project Development Workshop will follow the Bidders Conference at 10 a.m., and will cover the fundamentals of carbon offset project development including accounting protocols, verification and offset registries.

Interested parties can download the RFO documents from SMUD's Electronic Bid Solicitation System (EBSS) Web site at www.bids.smud.org. Registration to the EBSS site is required to access the documents. Registered individuals will also receive updated information regarding this RFO and will also receive notification of future solicitations for purchase of renewable energy resources. For additional information contact: Obadiah Bartholomy, 916-732-6835, obartho@smud.org.

See the entire SMUD news release at http://www.smud.org/en/news/Documents/08archive/10-17-08_carbon_offsets_RFO.pdf.

Request for Renewable Energy, Massachusetts (December 1)

Taunton Municipal Lighting Plant seeks up to 260,000MWh per year of energy and dependable capacity starting in the calendar year 2009 from eligible renewable resources to meet the Massachusetts RPS requirements. Responses due 12/1/08.

For more info, contact Scott Whittemore at Renewables@TMLP.com or go to <http://personal.tmlp.com/tmlpesp/RFP08-01-renewable-resource/>. (Green Power Network 7/28/08)

RFP for Climate Change and Sustainability Conferences, EPA (December 9)

The U.S. Environmental Protection Agency has issued a Broad Agency Announcement for Conferences, Workshops, and/or Meetings. EPA seeks applicants for the planning, arranging, administering and/or conducting of conferences and workshops in areas including, but not limited to: Economics and sustainability; air and global climate change; and technology. \$500K expected to be available, up to 15 awards anticipated. Proposals due 12/9/08.

For more information, contact Bernice Smith at smith.bernicel@epa.gov or go to http://es.epa.gov/ncer/rfa/2008/2008_baa.html. Refer to Sol# EPA-C2008-BAA. (Grants.gov 12/6/07)

RFP for Environmental Fellowships for Undergraduate, U.S. EPA (December 11)

The U.S. Environmental Protection Agency requests proposals for Greater Research Opportunities. GRO provides undergraduate fellowships in environmental fields of study. Areas of interest include, but are not limited to: Green Building Engineering, Environmental Engineering, and Urban and Land Use Planning. \$930K expected to be available, up to 20 awards anticipated.

Responses due 12/11/08. For more info, contact Georgette Boddie at boddie.georgette@epa.gov or go to: http://es.epa.gov/ncer/rfa/2009/2009_gro_undergrad.html. Refer to EPA-F2008U-GRO-(P1-Q2). (Grants.gov 9/5/08)

RFP for Student Design Competition for Sustainability, U.S. EPA (December 23)

The U.S. Environmental Protection Agency requests proposals for the 6th Annual P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity and the Planet. This program supports science-based designs developed by interdisciplinary student teams that benefit people by improving their quality of life, promote prosperity by developing local economies, and protect the planet by conserving resources and minimizing pollution. P3 seeks to respond to the technical needs of the world while moving towards the goal of sustainability. Areas of interest include: Agriculture, Materials and Chemicals, Energy, Information Technology, Water, and the Built Environment. \$950K expected to be available, up to 50 awards anticipated.

Responses due 12/23/08. For more info, contact Cynthia Nolt-Helms at nolt-helms.cynthia@epa.gov or go to: http://es.epa.gov/ncer/rfa/2009/2009_p3.html. Refer to Sol# EPA-G2009-P3-Q(1-6). (Grants.gov 9/23/08)

RFP for Energy Efficiency, Renewable Energy, and Transmission Technologies, DOE (December 31)

This solicitation announcement (DE-PS01-08LG00001) invites the submission of applications for loan guarantees under Title XVII of the Energy Policy Act of 2005, 22 U.S.C. 16511-16514 (“Title XVII”), from the U.S. Department of Energy in support of debt financing for projects in the U.S. that employ energy efficiency, renewable energy, and advanced transmission and distribution technologies that constitute New or Significantly Improved Technologies. Copies of related regulations may be found at <http://www.lgprogram.energy.gov/>.

DOE is actively promoting projects that fall within the following three general but distinct project type categories: (1) manufacturing projects, (2) stand-alone projects, and (3) large-scale integration projects that may combine multiple eligible renewable energy, energy efficiency and transmission technologies in accordance with a staged development scheme.

The applicant is requested to specify which, if any, of the following project types and technology categories most accurately represents its project: (1) Alternative Fuel Vehicles, (2) Biomass, (3) Efficient Electricity Transmission, Distribution and Storage, (4) Energy Efficient Building Technologies and Applications, (5) Geothermal, (6) Hydrogen and Fuel Cell Technologies, (7) Energy Efficiency Projects, (8) Solar, and (9) Wind and Hydropower.

With questions, email the LGPO at lgprogram@hq.doe.gov. Please include in the subject line “RETDEE Solicitation Question.” Completed applications must be submitted no later than 11:59 pm (ET) on

Wednesday, December 31, 2008. Full announcement can be found at <http://www.lgprogram.energy.gov/keydocs.html>.

RFP for Small Business Technology Transfer, National Science Foundation (February 25)

The National Science Foundation requests proposals for the Small Business Technology Transfer Program (STTR). STTR seeks to stimulate technological innovation in the private sector by strengthening the role of small business concerns in meeting Federal R&D needs, increasing the commercial application of federally supported research results, and fostering and encouraging participation by socially and economically disadvantaged and women-owned small businesses. Areas of interest include: Materials for Sustainability, Bio-inspired Materials and Systems, Smart Materials and Structures, and Nanostructured Materials. \$5 million expected to be available, up to 35 awards anticipated. Letters of Intent are required and are due 1/14/09, final proposals due 2/25/09.

For more info, contact Cheryl Albus at calbus@nsf.gov or go to: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf08608. Refer to Sol# 08-608. (Grants.gov 9/22/08)

Upcoming Events

Featured Event: Ribbon Cutting Ceremony, Raser Technologies, Thermo Power Plant, November 6 (Beaver County, UT)

Raser Technologies, Inc. (NYSE Arca:RZ) announced today that it will hold a ribbon cutting ceremony to mark the completion of the first commercial geothermal power plant to be built in Utah in more than 20 years. Senator Orrin Hatch, along with other national, state and county government officials, has accepted Raser's invitation to participate in the ribbon cutting ceremony and press conference. The event is scheduled for November 6, 2008, at the Thermo power plant project site in Beaver County at 3:00 p.m. local time. See story under **Company News**.

Visit <http://www.rasertech.com>.

International Geothermal Conference, November 7 (Nevis Island)

The Nevis Island Administration will host an International Geothermal Conference at the Four Seasons Resort on November 7, 2008. The theme is "Nevis Taking Leadership in Renewable Energy Development in the OECS" and is designed for anyone with interest in renewable energy systems, including policymakers, regulators, environmental consultants, property developers, and contractors.

Topics: Challenges and Solutions for the Energy Sector and Renewable Energy, The Legal Framework for Renewable and Geothermal Development in The OECS (The Nevis Case), Geothermal Development in Iceland and Geothermal Exploration and Development (The Nevis Model)

To register for the Conference, persons may contact Permanent Secretary, Mr. Ernie Stapleton, via email at planningministry@yahoo.com or by telephone at 869-469-5521 ext 2176.

NZ Geothermal Workshop & NZGA Seminar 2008, November 11–13 (Taupo, New Zealand)

The NZ Geothermal Workshop will be held November 11–12 and the New Zealand Geothermal Association Seminar 2008 will be held on November 13. Both events will take place at the Great Lake

Centre in Taupo, New Zealand. The events mark the 30th anniversary of the Geothermal Workshop, which is New Zealand's longest running energy conference. This year's workshop will celebrate New Zealand's people and past achievements as well as the exciting future of geothermal energy use around the world. Particular focus will be on New Zealand's contributions to the research, education, and development of geothermal energy.

NZ Geothermal is calling for papers related to the history of achievement and the future potential of geothermal energy as well as paper on all aspects on Wairakei. The paper deadline is August 25 and must be submitted via email to geothermal08@auckland.ac.nz.

Workshop registration began June 1 and online registration will continue until November 4. Discounted rates will be available until early registration closes on October 12. For more information or to register, please visit <http://www.nzgeothermal08.com/nzgeothermal/index.cfm>.

XVI Annual Congress of the Mexican Geothermal Association, November 14 (Morelia, Mexico)

The XVI Annual Congress of the Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana) will take place in the city of Morelia, Mexico, on November 14. The AGM is calling for papers related to geothermics. Please send abstracts to Luis Gutiérrez-Negrín (luis.gutierrez@geotermia.org.mx) before July 25. Ten to twelve papers will be selected for oral presentation during the congress. Papers and presentations can be in Spanish or English.

The AGM is the Mexican association affiliated to the International Geothermal Association (IGA) It holds an annual technical congress and a general assembly, restricted to its membership, usually in a city of Mexico related to geothermics. The events are cosponsored by the geothermal division of the Comisión Federal de Electricidad, whose headquarters is in Morelia.

For more information, please visit the AGM Web site (<http://www.geotermia.org.mx>), and/or send a message to Luis Gutiérrez-Negrín.

Geothermal Finance & Investment Summit, November 17–19 (Palm Springs, CA)

A Geothermal Finance & Investment Summit will be held November 17–19 in Palm Springs, California. Developers, investors, lenders, power purchasers, technology experts, legal teams and others involved in geothermal projects are scheduled to participate. Ed Wall, Program Manager of the Geothermal Technologies Program Office at the Department of Energy will be the keynote speaker. More information is available at <http://www.infocastinc.com/index.php/conference/geothermal>.

Utah Geothermal Lease Sale, BLM, Rescheduled for December 16

The Utah State Office has scheduled a proposed competitive geothermal lease sale on December 16, 2008 (rescheduled from the November date).

Relevant announcements and forms can be found at <http://www.blm.gov/ut/st/en/prog/energy/geothermal0.html>.

If you have questions regarding this notice, please call Judy Nordstrom at 801-539-4108; facsimile at 801-539-4200; write to attention at the address on this letterhead; or send electronic mail to judy_nordstrom@blm.gov.

2nd African Rift Geothermal Conference, November 25–29 (Entebbe, Uganda)

The second International Geothermal Conference on the African Rift will be held in Entebbe, Uganda. The conference is designed as a forum for the exchange of information on the African Rift Geothermal Resources and for discussion of the current state of scientific knowledge and understanding of all aspects of exploration and development of geothermal resources, including exploration, field and conversion technology, design and construction, environmental considerations, financial, marketing, and operational aspects.

The Scientific Program of the conference consists of Plenary Lectures, Poster presentations, Workshop and Field Trips. The following will be the themes for oral and poster sessions: (1) Exploration: Geology, Geophysics, Geochemistry, and Hydrology, (2) Drilling and well design: Shallow and deep, Production and Injection, (3) Field development, Production Technology, Power generation & Operation, (4) Reservoir Engineering: Well Testing, Injection, and Modeling, (5) Case Histories, (6) Economics and Financing, (7) Environmental, Social, Legal and Institutional Aspects, and (8) Direct Use: Agri- and aquaculture, Mineral extraction, Manufacturing, Air conditioning.

For more information and to register, contact Department of Geological Survey and Mines, Plot 21–29, Johnstone Road, P.O Box 9, Entebbe, Uganda. Phone: +256 712 812231, +256 712 835843, +256 773 129941. Fax: +256 414 320364. E-mail: argeoC2@minerals.go.ug or bahati@minerals.go.ug.

34th Stanford Geothermal Workshop, February 9-11, 2009 (Stanford, CA)

This workshop will bring together Engineers, Scientists and Managers involved in geothermal reservoir studies and developments; provide a forum for the exchange of ideas on the exploration, development and use of geothermal resources; and enable prompt and open reporting of progress.

Papers will be presented on recent research relating to geothermal reservoirs including:

- * Case Studies: reservoir response to production, effects of injection, scaling characteristics
- * Enhanced Geothermal Systems (EGS): current and future activities
- * Engineering Techniques: reservoir simulation, empirical methods, well tests, tracers
- * Field Management: strategies for exploitation, injection, scale inhibition
- * Exploration: geophysics, geochemistry, geology, heat flow studies, outflows
- * Drilling and Well Bore Flows: well stimulation, bore flow modeling, hydro-fracturing, scaling
- * Low Enthalpy Systems: applications of heat pumps, hot dry rock technology
- * Geosciences: application of geophysics, geochemistry, thermodynamics and fluid mechanics.

For more information such as abstract submission, last year's workshop format, and more, visit <http://pangea.stanford.edu/ERE/research/geoth/conference/workshop.html>.

Featured Event: Renewable Energy World Conference and Expo North America 2009, March 10–12, 2009 (Las Vegas, NV)

North America's Premier Renewable Energy Conference & Expo Is Now in its 6th Year!

The Renewable Energy World Conference & Expo North America (formerly POWER-GEN Renewable Energy & Fuels) has a proven track record—now in its 6th year—as renewable energy's leading conference. It offers a worldwide audience who will hear papers, panel discussions and presentations during technical sessions related to technology, markets, business strategies and policy covering the wind, solar, biomass, hydro, geothermal, ocean/tidal/wave, bio-power, bio-fuels hydrogen and energy sectors. There has never been a better time to be a part of the exciting, ever-growing world of renewable energy!

Connecting 5,000 renewable energy power professionals with 300 exhibitors for three days of networking, new business negotiation, and the exchange of important ideas and information impacting the renewable energy industry today.

REenergize with new technologies, new companies, new strategies and new views!

The Geothermal Energy Association will be cosponsoring this event, with panels on geothermal energy soon to come. For more information and to register, visit <http://rewna09.events.pennnet.com/fl/>.

Canadian Geothermal Energy Association Conference and AGM, April 16–17, 2009, (Vancouver, B.C.)

Canadian Geothermal Energy Association Workshop, Conference and AGM, April 15–17, 2009, (Vancouver, BC)

The Canadian Geothermal Energy Association (CanGEO) announces their Workshop, Tradeshow, Conference and AGM on April 15–17, 2009 in Vancouver, BC.

CanGEO also announces that its 2009 membership drive has begun. CanGEO welcomes all members interested in advancing the development of Canada's vast resources. In addition, members receive premium benefits on one of the world's most popular geothermal websites.

Visit the Web site for information: <http://www.cangea.ca/>.



GEA Update

A newsletter for GEA Members written by Leslie Blodgett and Karl Gawell. For more information contact GEA at: 209 Pennsylvania Avenue SE, Washington, D.C. 20003. Phone: 202-454-5261; Fax: 202-454-5265; E-mail: research@geo-energy.org