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National News

Congress Leaves for August Recess; Energy Legislation Still Deadlocked

Despite attempts to move legislation in both the House and Senate during July, Congress was deadlocked on energy legislation. Democrats sought action on legislation to deal with oil speculation, which raised Republican objections and veto threats. Republican leaders sought action on lifting moratoria on OCS drilling and development of ANWR, which Democratic leadership moved to avoid. Democrats proposed extensions of renewable and other energy tax credits, but included offsets to pay for the credits that drew Republican objections. All in all, with tight margins in the House and Senate, both parties were able to block the other from moving forward with its agenda.

U.S. Senator Pete Domenici (R-NM) and ranking member of the Senate Energy and Natural Resources Committee, said: “After nine days of debate and seven different attempts to change the subject, the Democratic Majority in the Senate finally has come up with a way to deal with high gasoline prices: leave town.” Meanwhile, Democratic Leader Harry Reid made it clear that Democrats intended to continue working on legislation “to jumpstart our economy and continue our effort to invest in clean energy.”

When Congress resumes its session after Labor Day, energy could still be front and center as House Republicans are working to block action on any spending legislation that contains an extension of the moratorium on offshore drilling. Without an extension, the Administration would be able to move forward with leasing areas of the Outer Continental Shelf now closed by the annual appropriations rider that has been in place for some 15 years.

However, Congress is expected to include the OCS moratorium language in a massive government-wide appropriations bill, which means that if the House Republicans are successful it could also mean a shut-down of federal agencies on October 1. Meanwhile, efforts to achieve an extension of expiring renewable tax credits are also anticipated as Congress moves towards the end of its session.

Senator Bingaman to Steer Energy Summit in September

Senate Energy Committee Chairman Jeff Bingaman has agreed to help lead an energy summit next month when the Senate returns to session.

The Senate has been blocked from considering energy legislation for most of the summer. In an effort to find areas of agreement between both parties, Senate Majority Leader Harry Reid last week asked Senate Minority Leader Mitch McConnell to join him in sponsoring the summit.

Bingaman has expressed frustration about the Senate's lack of progress on the issue of energy. In the past two weeks, the minority party has blocked consideration of legislation to address speculation in the oil markets, to extend tax incentives to encourage renewable energy and to authorize spending for the Department of Defense.

Bingaman had this to say about the lack of progress on energy issues:

"The high price of gas and diesel at the pump is a major burden on American families and on the American economy.

"While all of us would like to find a single solution to the problem, the truth is that we must take action in three areas to achieve any lasting result.

"We must ensure the proper functioning of markets for oil and gas so that prices are not artificially high because of excessive speculation.

"We must find ways to increase the supply of oil and gas, but also other types of energy.

"And we must reduce the demand for fuel.

"I hope we can enact responsible legislation in each of these areas in the near future.

"Majority Leader Harry Reid has tried to schedule votes on proposed solutions to high energy prices during the past few weeks, but he has been blocked from doing so. I hope that all senators will participate in the energy summit next month so that we can find a way to move forward in a bipartisan manner."

BLM Geothermal Lease Auction Offers 35 Land Parcels in Tomorrow's Nevada Sale

Press Release—[BLM Offers Lands for Geothermal Leasing](#)

Nearly 105,312 acres of public lands will be available for 10-year geothermal leases at a competitive bid auction. The 35 parcels to be offered at the Tuesday, Aug. 5 sale are located in Churchill, Pershing, Elko, Lander, Mineral, Humboldt, Esmeralda and Nye counties.

The sale will be held at the Bureau of Land Management (BLM) state office at 1340 Financial Blvd., in Reno. Registration to bid will begin at 8 a.m. and bidding will begin at 9 a.m.

BLM Nevada's last geothermal lease sale was held in August 2007. At that sale 43 Nevada parcels were offered, resulting in \$11.7 million, \$8.5 million of which went to the state and counties where the parcels are located.

New regulations and a competitive leasing process implemented by the Energy Policy Act, proceeds from the sale of geothermal leases are distributed 50 percent to the state, 25 percent to the county and 25 percent to the BLM.

DOE EERE Assistant Secretary Resigns

Andy Karsner, Assistant Secretary for Energy Efficiency and Renewable Energy, last week announced his decision to resign at the end of August, according to *Inside Energy*. As assistant secretary, Karsner

advocated for cellulosic biofuels, solar, wind, geothermal, and tidal power. He also oversaw programs promoting alternative fuels and batteries for vehicles.

“Andy’s extraordinary leadership has helped pave the way to make the US more environmentally healthy and energy secure by pursuing sustainable energy sources that will reduce greenhouse gas emissions and our dependence on foreign oil,” Energy Secretary Samuel Bodman said in a statement.

“Andy Karsner has helped achieve a renaissance in DOE’s geothermal research program,” noted GEA’s Executive Director, Karl Gawell.

DOE now has four top positions either empty or being filled by acting chiefs.

Company News

Calpine: California Honors Geysers Operations with Seventh Consecutive Award

Press Release Highlights—July 30, [Calpine Geothermal Operations Recognized by State of California](#)

Calpine Corporation was recently recognized by the state of California for its ongoing commitment to safety and the environment and its excellence in lease maintenance at its geothermal facilities at The Geysers in Northern California.

The California Department of Conservation presented Calpine's Geysers geothermal operations with its seventh consecutive Outstanding Lease Maintenance Award for environmental stewardship, safety, infrastructure maintenance, and resource conservation. Calpine is one of two geothermal operators to receive the award, which traditionally is issued to oil and gas field operators.

Karl Urbank, Calpine's Vice President, Geothermal Operations, accepted the award on behalf of Calpine from Hal Bopp, the State Oil and Gas Supervisor for the California Department of Oil, Gas and Geothermal Resources at a Geysers Geothermal Association luncheon.

"We are extremely pleased to receive this award for the seventh year in a row," said Mike Rogers, Calpine's Senior Vice President and President of Power Operations. "This is truly a reflection of the team spirit and effort put forth by all the employees at The Geysers to maintain our facilities in an exemplary fashion. Our company was established on the principles of good environmental stewardship, excellence in power generation and corporate responsibility. It is very satisfying to be recognized for our efforts."

For news releases from Calpine, visit <http://phx.corporate-ir.net/phoenix.zhtml?c=103361&p=ir-ol-news>.

MD Cowan: ThermaSource Receives First Geothermal-Specific Drilling Rig

Press Release—July 8, [MD Cowan delivers first Thermal Single® rig](#)

MD Cowan, Inc. announces the delivery of the first Thermal Single® drilling rig to California-based ThermaSource. The Thermal Single, a variation of Cowan’s popular Super Single Drilling Rig®, is designed and built specifically for geothermal drilling. The new design features a telescoping substructure, two piece mast, and skid-mounted drawworks, while leveraging the proven pipe handling systems, mobility, safety features and minimal footprint of the original Super Single.

“We selected MD Cowan for their flexibility and willingness to work with us on a unique design, which will be fundamental to our fleet,” said Jim Hanson, Executive Vice President of Operations for ThermaSource. “We are very pleased with the results and have already contracted for a second rig.”

MD Cowan, Inc. President Scott Milliren said the Thermal Single is tangible evidence of MD Cowan's ability to adapt to market needs and leverage design strengths while maintaining industry-leading deliveries.

"We had worked with ThermaSource on conventional rigs in the past, and we were excited about the challenge of developing a rig for the green energy industry," Milliren said. "The Thermal Single illustrates our Company's ability to adapt to customer needs while extending our product line. We look forward to a long-term relationship with ThermaSource."

For press releases from MD Cowan, visit <http://www.mdcowan.com/press.html>.

Nevada Power Company: Utilities Commission Approves Two Renewables Projects

Press Release—July 30, [Renewables Investments and Transmission Studies for Sierra Pacific Resources Utility Approved By PUCN; Nevada Power Company Moves Forward with Its First Renewables Investment in Southern Nevada](#)

Nevada Power Company, a wholly owned subsidiary of Sierra Pacific Resources, today received approval from the Public Utilities Commission of Nevada for development of two renewable energy generating plants. Combined, both projects will represent a company investment of more than \$100 million. Additionally, the Commission gave approval for the company to spend \$3.5 million on renewable transmission system routing and siting studies.

"The Commission's action marks a significant milestone, demonstrating our company's commitment to invest in renewables projects," said Michael Yackira, president and CEO of Sierra Pacific Resources. "These facilities will make an essential contribution to help assure clean, affordable and reliable energy, somewhat buffering our customers from future fossil fuel market uncertainties, most notably natural gas price increases."

The Commission approved a 30-MW co-development geothermal project with Ormat, a world-leading geothermal company headquartered in Reno, at Carson Lake, Nev., located approximately 70 miles southeast of Reno. The project will sit on federal lands, a portion of which includes the Naval Air Station at Fallon, Nev.

Also approved was the company's proposal to invest in a 6-MW heat recovery energy generating facility at Goodsprings, approximately 30 miles south of Las Vegas. The project, which will be located at the Kern River Gas compressor station, will be the company's first investment in a renewable energy project in southern Nevada. Ormat is supplying the heat-recovery generating equipment and will build the project for Nevada Power.

Yackira added, "Nevada is already number one in solar and geothermal power per capita and we are continuing to push forward aggressively. We currently have 23 other geothermal plants under contract, and are actively pursuing further investments in geothermal, solar and wind energy."

The transmission studies are part of the utilities' long-range plan to bring increased amounts of renewable energy to the State's consumers. If fully built-out, the system could be comprised of more than 500 miles of new 345 kV transmission lines and a number of new substations located strategically to provide improved grid access for geothermal, wind and solar plants that are under development, as well as meeting the utilities' other needs. Individual transmission projects comprising the system will be subject to Commission approval.

"We are continuing to plan for expansion of our transmission grid to assure that the State's own renewable energy resources can be tapped and brought to our customers," Yackira stated.

For news releases from Nevada Power Company, visit <http://www.nevadapower.com/company/news/newsreleases.cfm>.

U.S. Geothermal: Neal Hot Springs Project Tests Produce Positive Results

Press Release—July 29, U.S. Geothermal Announces More Test Results From the Neal Hot Springs Production Well and a Key Addition to Senior Staff

U.S. Geothermal Inc. (TSX: GTH) (AMEX: HTM) ("U.S. Geothermal"), a renewable energy company focused on the production of electricity from geothermal energy, announced today results from a second, higher rate flow test of the first full size production well (NHS-1) at the Neal Hot Springs Project which indicate the well has significant energy potential and reconfirms the presence of a commercial geothermal reservoir.

The second flow test, a step-rate-test with pressure buildup, was conducted for 12 hours on July 12, 2008 and resulted in a flowing production temperature of 286.5 degrees F (141 degrees C), approximately 10 degrees higher than the initial test. The new well flowed under artesian pressure at a peak rate of 2,055 gallons per minute ("gpm") and then was stepped down to a lower flow rate of 1,210 gpm before it was shut in and the pressure buildup monitored. Richard Holt of Geothermal Science, Inc., an independent geothermal reservoir engineer, calculated a well productivity index of 450 gpm/psi, which is considered to be very high in the geothermal industry.

"This second test allowed the well to flow without restriction and resulted in a much higher flow rate and higher flowing temperature, thereby confirming the potential production of at least five to six megawatts from this single well," said Daniel Kunz, President and CEO.

Permits to drill three more wells were submitted to the Oregon Department of Geology and Mineral Industries in April and are pending approval. Additional wells and reservoir testing is needed before the size and power generation potential of the Neal Hot Springs geothermal reservoir can be determined.

Additionally, the company is pleased to announce that Mr. John Van Haren has joined the staff as General Manager of U.S. Geothermal Services, our power plant operations subsidiary. Mr. Van Haren was the Plant Manager for a 63-MW combined cycle power plant in Rhode Island, and was previously the Assistant Manager for Black Hills Colorado LLC where he managed operations and maintenance of both the 122-Arapahoe combined cycle plant and the Valmont 80-MW simple cycle facility. Mr. Van Haren's experience in power plant operations strengthens the U.S. Geothermal team in preparation for planned expansions at San Emidio and Neal Hot Springs.

For news releases from U.S. Geothermal, visit <http://www.usgeothermal.com/NewsReleases.aspx>.

Renewable and Climate Change News

DOE Selects Alliance for Sustainable Energy to Manage NREL

Press Release Highlights—July 29, Alliance for Sustainable Energy, LLC Brings Together Key Partners Battelle and Midwest Research Institute to Manage National Renewable Energy Laboratory; Bold New Team and Vision Promises to Drive Change Agenda

The U.S. Department of Energy (DOE) selected the Alliance for Sustainable Energy, LLC (the Alliance) as the next management contractor of the National Renewable Energy Laboratory (NREL). The new equally-owned management entity pairs two non-profit organizations—Midwest Research Institute (MRI) and Battelle—in a partnership that will enhance NREL's leadership and provide greater, more innovative impact on accelerating achievement of the national energy goals. There will be a 60-day transition period.

Upon conclusion of transition, and the completion of the existing contract, the Alliance will take over full management and operations responsibilities.

“We are honored that DOE has selected our team to lead NREL,” said the Alliance President and Laboratory Director, Dr. Dan Arvizu. “Our primary mission will be to support DOE in the development and deployment of innovative, high impact renewable energy technologies. The Alliance hopes that a fortunate byproduct of this mission will be the creation of a renewable energy ‘Silicon Valley,’ emanating from the laboratory, the State of Colorado, and the Front Range, while reaching out to national and international connections for wider impact on clean energy.”

The Alliance team will manage and operate the laboratory by leveraging the expertise and accomplishments of MRI and Battelle—two companies who have a 10-year history of teaming success at NREL.

The Alliance has a bold vision and clear concept for the future of NREL which includes:

- Driving Market-Relevant Technology Innovations
- Accelerating Commercialization and Deployment
- Leading Insightful Analysis
- Creating the Campus of the Future
- Fostering the Best Work Environment

To increase NREL’s impact in achieving national energy goals and to leverage the federal investment in the laboratory, the Alliance has committed to invest significantly in the laboratory through the engagement of the State of Colorado and more than 20 other organizations and collaborators.

The Alliance will be governed by a 15-member Alliance Board of Directors composed of five executives each from MRI and Battelle, as well as senior-level officials from the five key collaborating universities.

For press releases from Battelle, visit http://www.battelle.org/spotlight/news_index.aspx.

Carbon Capture Technology Projects Receive \$36 Million from DOE

Press Release Highlights—July 31, [DOE to Provide \\$36 Million to Advance Carbon Dioxide Capture](#)

The U.S. Department of Energy (DOE) announced today that it will provide \$36 million for 15 projects aimed at furthering the development of new and cost-effective technologies for the capture of carbon dioxide (CO₂) from the existing fleet of coal-fired power plants.

“Currently, the existing U.S. coal fleet accounts for over half of all electricity generated in this country,” U.S. Secretary of Energy Samuel W. Bodman said. “The projects announced today will combat climate change and help meet current and future energy needs by curbing CO₂ emissions from existing coal-fired plants.”

Capture and storage of CO₂ is a key component of President Bush’s vision for a cleaner, more secure energy future. Since 2001, the Administration has invested more than \$2.5 billion in clean coal research and development. Today’s 15 projects will focus on five areas of interest for CO₂ capture: membranes, solvents, sorbents, oxycombustion (flue gas purification and boiler development), and chemical looping.

For the complete news release including projects and research areas, visit <http://www.doe.gov/news/6443.htm>.

SEC Congressional Expo Addresses National Renewable Energy Topics

The 11th Annual Congressional Renewable Energy and Energy Efficiency Expo and Forum took place in Washington, D.C. last week. Nearly 50 exhibitors, including GEA, from renewable energy sectors and

collaborative organizations contributed to a collective representation of support for Congressional action toward a more energy-efficient country.

The feeling in the room was one of innovative excitement toward new projects across the country and in specific states. A morning panel, made up of members of Congress, showed support for renewing investment tax credits and for large-scale projects such as a national grid system. Speakers throughout the day focused on climate change and the future of America's energy, with individual contributions from solar, geothermal, wind, clean fuels, oceans, and other sectors.

The Sustainable Energy Coalition, which hosted the event, estimated that about 500 people participated in the event, including over 20 members of Congress as well as many senior congressional staff.

Information on the Sustainable Energy Coalition can be found at <http://www.sustainableenergycoalition.org/>.

Frost & Sullivan Article Notes Geothermal Analysis in the EU

Frost & Sullivan, a consulting firm, notes analysis on geothermal energy in an article titled *The Race for Alternative Energy Sources: New Geothermal Projects in Europe* on frost.com.

In the EU, geothermal plants are found in Iceland, Greece, Italy, Turkey, Germany, and Austria. Potential for expansion exists in the north western and central western coast of Italy, western part of Turkey, and parts of Portugal, Spain, France, and Germany. The German government especially has shown remarkable support with laws that make projects financially viable, the article said. Research shows that high upfront production costs are dropping, the article said. While generation costs in 2005 were 50–150 euros/MWh, it should fall to 40–100 euros/MWh in 2010 and 40–80 euros/MWh in 2020.

Since the heat of the earth is available 24 hours a day, the article notes that geothermal's capacity factor, at over 70%, far exceeds that of wind and solar (at 20–35%). "Geothermal energy has several advantages when compared to other renewable energy sources as well as carbon-emitting fuels. The sector is something to watch out for in the next few years," notes Frost & Sullivan analyst, Gouri Nambudripad.

For the complete article, see <http://www.frost.com/prod/servlet/press-release.pag?docid=139283602>.

EU Considers Solar Supergrid System

Scientists at the Euroscience Open Forum in Barcelona spoke on a plan to capture solar power from the Sahara Desert to use in the EU according to guardian.co.uk. Arnulf Jaeger-Waldau of the European commission's Institute for Energy, said just 0.3% of solar heat from the Sahara and Middle East deserts could meet all of Europe's energy needs.

If the EU moves forward with the system, it would mean geothermal and wind power supplies could move along the same grid, the article said.

See <http://www.guardian.co.uk/environment/2008/jul/23/solarpower.windpower>.

Consumers Gaining Interest in Geothermal Heat Pumps

Responding to interest from their readers, an article on greenbuildingelements.com titled "Are Geothermal Heat Pumps for You?" gave an excellent overview of geothermal heat pumps. The article gave a great summary of what heat pumps are, their benefits to consumers and to the environment, and where you can find an installer.

Heat pumps deliver three to six times as much energy for heating and cooling as is used to power the equipment, the article said. They are expensive to install, but the payback period is less than five years.

Several options for installation were described, allowing for needs from different consumers:

1. Closed Loop Horizontal System: Plastic pipe is laid in horizontal trenches at least four feet deep. The pipes can be installed straight or in loops. This requires deeper but shorter trenches, which can help in smaller yards.
2. Closed Loop Vertical System: U-shaped sections of pipe are installed in borings drilled 150+ feet deep. These can be used in tighter places or where the soil is very rocky or difficult to dig in, or in densely populated areas such as New York City.
3. Open Loop System: Groundwater is drawn from a well rather than through a closed loop of piping.

The article included links to installers and to additional information.

See <http://greenbuildingelements.com/2008/07/25/are-geothermal-heat-pumps-for-you/>.

State News

Alaska: Geothermal Exploration to Begin at Volcanoes

Alaskan state officials will fund geothermal exploration of Mount Spurr and the Augustine stratovolcano, two of the largest volcanoes in the state, according to thefutureofthings.com. Geothermal development of Alaska's volcanoes and hot springs could possibly supply up to 25% of the state's energy needs, the article said.

Chena Hot Springs in Alaska provides an example of successful geothermal production in Alaska, the article said, and the state has enough resources it could potentially market its supply to other states as well.

See <http://thefutureofthings.com/news/1258/alaska-opts-for-underground-energy.html>.

California Geothermal Energy Summit Focuses on RPS Goals, CO₂ Reduction

~Contributed by William Glassley, executive director of the California Geothermal Energy Collaborative

The California Geothermal Energy Collaborative (CGEC) held its annual meeting July 30 in Sacramento, California. The Summit focused on how geothermal energy can contribute to the state meeting both its aggressive RPS goals (33% of energy production from renewable energy sources by 2020) and greenhouse gas emissions reduction targets.

Keynote addresses by Eileen Wagner Tutt (Deputy Secretary for the California Environmental Protection Agency) and Karen Douglas (Commissioner for the California Energy Commission) provided frank analyses of the challenges the state faces and encouragement for the role geothermal energy can play in meeting those challenges. Complementing their presentations was a discussion of the emerging DOE Geothermal program by Ed Wall, recently appointed DOE Geothermal Program Manager. Further presentations detailed transmission issues, research, development and demonstration (RD&D) needs, federal and state initiatives supporting geothermal development, developments in ground source heat pump (GSHP) and direct-use applications, and the status of the BLM Programmatic EIS for geothermal.

Although complex challenges face the geothermal industry in its move toward a much larger role in the market place, the atmosphere among the nearly 100 attendees was decidedly optimistic.

California: DOE Visits the Geysers Geothermal Fields

The DOE Geothermal Technology Office staff visited the Geysers in California to discuss possible funding of R&D projects with Calpine. These projects would create and sustain geothermal generation.

The story and accompanying video clip are available at <http://abclocal.go.com/kgo/story?section=news/environment&id=6295176>.

California: Renewable Projects Depend on Tax Credits

An article on mydesert.com about tax credits on solar power projects in California noted that tax credits are essential for the development of geothermal energy as well. The article covered the frustration of the industry on the failure of Congress to pass extension, and the impact it would have if the support does not come.

A spokeswoman for Rep. Mary Bono Mack, R-Palm Springs, told the press that the Congresswoman supports research development for renewables including solar, wind, and geothermal.

See <http://www.mydesert.com/apps/pbcs.dll/article?AID=/20080731/BUSINESS/807310342/1003/business>.

International News

Australia: Carbon Reduction Targets Push Renewables Demand

The Energy Supply Association of Australia has conducted research that shows effects of greenhouse gas reduction targets, according to theaustralian.news.com.au. With a target of 10% reduction by 2020, 15% of coal-fired power stations could be forced to close, necessitating \$33 billion in investment in alternative energy supply, the article said.

The ESSA research benefits geothermal energy production and transmission. Rob Jackson of the Clean Energy Council told the press, "The clean energy industry alone stands ready to invest a minimum of \$20 billion in zero-emission, renewable power required to meet the target and to ensure a diverse and secure energy supply for Australia."

The ESAA modeling predicted at least \$4.5 billion needed in new transmission lines for wind and geothermal energy.

See <http://www.theaustralian.news.com.au/story/0,25197,24079550-11949,00.html>.

Canada: Alberta Report Shows Potential for Geothermal Projects

An Alberta Energy Research Institute report concludes geothermal energy is more viable in Alberta than previously thought, according to Canada.com. The report showed that the technology is proven, but is not yet cost effective.

Michal Moore of the Institute for Sustainable Energy, Environment and Economy at the University of Calgary co-authored the report with Jacek Majorowicz, a consulting geologist in Edmonton.

Researchers mapped geothermal temperature zones, but many areas were left blank because of inadequate research. Moore said he wants the federal government to commission a Canadian national survey to show companies where geothermal resources are located.

The study found that northwestern Alberta has temperatures of 150°C at depths of 3 to 4 km. Southern Alberta areas showed those temperatures available farther down, at 7 km or more.

See <http://www.canada.com/calgaryherald/news/calgarybusiness/story.html?id=b98c91a8-a767-4f15-96c3-89d65e684850> and http://www.aeri.ab.ca/sec/new_res/aosis_001_1.cfm.

Hungary: Mol, Enx, Green Rock Form New Geothermal Company

Hungarian oil refiner Mol Nyrt. is establishing a geothermal energy company with Iceland's Enx hf. and Australia's Green Rock Energy Ltd, according to *Energy Business Review*. The new company, CEGE Central European Geothermal Energy Production, will explore, produce and sell geothermal energy, initially in Hungary. The three founders will each have equal ownership in CEGE.

See http://www.energy-business-review.com/article_news.asp?guid=6F8972B8-9ADB-4B3A-A551-29AAA67F1449.

Philippines: AP Renewables Wins Bid for Tiwi-Makban

AP Renewables Inc. won the bid for the 747-MW Tiwi-Makban geothermal power plants, steam field facilities, and geothermal service contract, according to *gmanews.tv*. The company's winning bid was \$446.88 million.

"The sale of Tiwi-Makban actually sets the trends for open access already according to PSALM's view," Power Sector Assets and Liabilities Management Corp. (PSALM) president Jose C. Ibazeta told press. The sale pushes the privatization level to 70% or 2,000 MW of the country's capacity, he said.

SN Aboitiz Power president Luis Miguel O. Aboitiz said the service portion contract of the sale would have to be renegotiated because of issues related to the rising cost of coal and its impact on the geothermal industry.

See <http://www.gmanews.tv/story/110490/Aboitiz-unit-is-highest-bidder-for-Tiwi-Makban>.

Poland: Geothermal Resources Available

An article on *topix.com* said Poland has rich geothermal resources up to 130°C at depths of 3 to 4 km. With six geothermal plants currently operating in Poland, additional development is available, but obstacles include high charges for rights to boreholes and high taxes. Poland is exploring options to grow in power plant production as well as other opportunities with geothermal heat.

See <http://www.topix.com/world/poland/2008/06/poland-geothermal-energy-on-the-advance>.

Slovakia: SPP Drops Geothermal Project but Retains Interest

Slovenský plynárenský priemysel (SPP) announced its intent to drop its project of using geothermal energy in the Košická kotlina, according to *English.etrend.sk*. Future development of the geothermal resources in this region could still be in the works, the article indicated. SPP has kept control of the land where the boreholes are located.

See <http://english.etrend.sk/news-summaries/spp-retains-interest-in-geothermal-project/140120.html>.

Notices and Employment Opportunities

Truckhaven Geothermal Leasing Area ROD Available, BLM

Notice of Availability of Record of Decision for the Truckhaven Geothermal Leasing Area Final Environmental Impact Statement, California AGENCY: Bureau of Land Management, Interior.

The BLM has announced the availability of the Record of Decision (ROD) for the Truckhaven Geothermal Leasing Area, Imperial County, managed by the El Centro Field Office. The El Centro Field Manager has signed the ROD, which constitutes the final decision of the BLM.

The appeal period will end 30 days after publication of this notice (Friday, August 1, 2008) in accordance with 43 CFR 4.411(a).

Copies of the ROD are available upon request from the Field Manager, El Centro Field Office, Bureau of Land Management, 1661 S. 4th Street, El Centro, CA 92243 or via the Internet at <http://www.ca.blm.gov/elcentro>. Copies of the ROD are available for public inspection at the following locations:

- Bureau of Land Management, California State Office, 2800 Cottage Way, Suite W-1834, Sacramento, CA 95825.
- Bureau of Land Management, El Centro Field Office, 1661 S. 4th Street, El Centro, CA 92243.
- Bureau of Land Management, California Desert District, 22835 Calle San Juan De Los Lagos, Moreno Valley, CA 92553.

For Further Information Contact: John Dalton, Truckhaven Geothermal Leasing Area EIS Project Manager, at (951) 691-5200, Bureau of Land Management, 22835 Calle San Juan De Los Lagos, Moreno Valley, CA 92553; john_dalton@ca.blm.gov.

Supplementary Information: The Truckhaven Geothermal Leasing Area encompasses approximately 14,731 acres of Federal minerals in western Imperial County, California, north of State Route 78 and generally west and south of County Highway S-22. The area is part of the California Desert Conservation Area. The main issues addressed in the Final EIS were geothermal resource leasing, recreation, and special status species. Three alternatives were analyzed in the Final EIS: (1) No action, which would not lease any geothermal resources; (2) leasing only lands with existing noncompetitive lease applications; and (3) the proposed action, which would offer all BLM managed lands within this area for lease, subject to certain stipulations and mitigation measures to be applied either at lease issuance or at the development stage.

After careful consideration of all factors, including balancing the need for renewable energy, the need to protect biological, cultural and visual values, and the need to maintain areas for recreational opportunities associated with the Ocotillo Wells State Vehicle Recreation Area, the BLM has selected Alternative 3 as the preferred alternative. Some areas will be required by stipulation to unitize as appropriate in order to consolidate production facilities and, thereby, minimize surface impacts. Two power plants are anticipated to be constructed within the planning area, which would involve an initial disturbance of approximately 502 acres. Following construction, approximately 95 acres would be reclaimed, leaving approximately 405 acres disturbed by roads, well pads, pipelines, and the two plants. Various site-specific Conditions of Approval will be imposed at the development stage to protect other resources and uses.

Comments on the Truckhaven Geothermal Leasing Area Draft EIS received from the public and via internal BLM review were incorporated into the Final EIS. These comments resulted in corrections, clarifying text, and the addition of new data used in the analysis of impacts. The Final EIS Truckhaven Geothermal Leasing Area addresses comprehensive, long-range decisions for the use and management of geothermal resources in the planning area and management of other resources and uses potentially affected by geothermal resource management decisions. The ROD for this project addresses only BLM's decisions for public lands and resources administered by BLM.

Truckhaven Geothermal Record of Decision:
<http://www.blm.gov/ca/st/en/fo/elcentro/truckhaven.html>

Truckhaven Geothermal Notice of Availability in the Federal Register:
<http://frwebgate4.access.gpo.gov/cgi-bin/PDFgate.cgi?WAISdocID=620148110373+1+1+0&WAIAction=retrieve>

Truckhaven Geothermal News Announcement:
http://www.blm.gov/ca/st/en/info/newsroom/2008/august/CDDNews0860_NOA_Truckhaven_ROD.html

Vice President of Business Development, Ormat Technologies

Ormat Technologies has an immediate opening for a full time Vice President of Business Development located in Reno, NV. The ideal candidate will 10+ years in sales, marketing and business development in the energy/renewables industry. To apply for the position please send a resume to Chris@redfishtech.com.

Position Title: Vice President, Business Development

Department: Business Development

Location: Corporate Office

Reports to: President/COO

Position Summary: The Vice President of Business Development is responsible for overseeing the Business Development function in North America.

Essential Functions

- o Direct and execute the business development strategy to achieve company goals and objectives.
- o Identify and develop key strategic partnerships, both internally and externally.
- o Responsible for negotiating PPAs and contract changes.
- o Evaluate and analyze market expansion opportunities
- o Ability to build and lead a business development team that will assist the company towards completion of company goals
- o Build relationships with internal departments so that all areas of the company are ready to execute when necessary.

Other Responsibilities

- o Provide ongoing training and development to business development team to obtain a high level of performance

Education, Experience and Skills Required

- o Bachelor degree, ideally in business or engineering disciplines
- o 10 – 15 years experience in Sales, Marketing, Business Development or Operations roles (preferably a mix of sales and operations in energy industry)
- o Willingness to travel up to 60% nationally and internationally
- o Ability to negotiate contracts with potential business affiliates
- o Experience in the renewable energy field a strong plus
- o Proven track record maintaining confidentiality and dealing with company proprietary information

Physical Requirements

- o In office: walking and standing 20% of the time, seated 75% of the time
- o Ability to stand, walk and sit for varied degrees of time associated with travel

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

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

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

Other Responsibilities

- o Work flexibly within a dynamic, multidisciplinary team.

Education, Experience and Skills Required

- o Minimum of 10 years experience in a similar position.
- o 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.
- o Experience in marketing or application engineering.
- o Experience working directly with customers in a sales organization with strong communication and interpersonal skills.

Physical Requirements

- o Must be able to travel regularly

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.

Release of Forseo's "Investor's Guide to Geothermal Energy" (August)

"The Investor's Guide to Geothermal Energy" provides a comprehensive and market driven insight into all important aspects of geothermal business and project development. It serves as a practical reference tool for the financial community, for stakeholders from the industry, and for novices to geothermal energy.

Each project stage, from site identification, exploration, site development, power plant construction to operation and maintenance is looked at from an investor's point of view, including capital costs & cost affecting factors, financing instruments & incentives, associated risks & risk mitigation tools, geoscientific & technology barriers and solutions, and investment opportunities and market drivers.

Recognized experts and leading geothermal companies are sharing their insight to make this publication the first of its kind. Sterr-Kölln & Partner is the main contributor to the content of the publication. The target groups are investors and lenders, project developers, utilities, consultancies, insurance companies and other market players. The publication is endorsed by the IGA (International Geothermal Association) and SEFI (Sustainable Energy Finance Initiative).

For more information please contact Birgit Eggl at birgit.eggl@forseo.de or visit <http://www.forseo.eu/english/publications/the-investor-s-guide-to-geothermal.html>.

FOA, U.S. DOE, Enhanced Geothermal Systems Research, Development, and Demonstration (Applications Due August 12)

Announcement Number: DE-PS36-08GO98008

Initial estimated total funding for this award is listed at \$10,500,000 in FY'2008; with additional anticipated funds of \$79,000,000 in FY'2009 and FY'2010, subject to change and Congressional appropriations. There are also distinctions between funding for two topic areas covered in this FOA. Please see the FOA for detailed funding information.

Geothermal energy is an abundant, reliable, ubiquitous, base load, indigenous renewable energy source. Only the hydrothermal portion of the geothermal resource has been developed commercially around the world. There are a significant number of hydrothermal systems that do not have adequate productivity for economic production. To address the development of Enhanced Geothermal Systems (EGS), DOE recognizes that there will be challenges requiring new technology development in the form of R&D, field testing, and verification in order for EGS to enter the marketplace. DOE is seeking to partner with geothermal stakeholders to alleviate some of the risks of EGS development through this Funding Opportunity Announcement (FOA) covering two key topic areas. This integrated FOA will allow DOE to develop new sensors, down-hole tools, and mapping capabilities in order to operate at greater depths and higher reservoir temperatures, and to partner with geothermal stakeholders to increase the knowledge and understanding necessary for EGS to advance to a state of commercial readiness. Brief descriptions of both topic areas are as follows:

Topic Area 1: Component Areas R&D

This topic area seeks projects that address key aspects of engineered reservoir creation, management, and utilization by developing tools and techniques useful to temperatures up to 300°C and depths as great as 10,000 m. Areas of interest include: zonal isolation; down hole pumps; fracture characterization; image fluid flow; tracers and tracer interpretation; high temperature logging tools and sensors; and stimulation prediction models. These technology improvements are discussed in greater detail in the report, An Evaluation of Enhanced Geothermal Systems Technology, posted on the DOE website: http://www1.eere.energy.gov/geothermal/pdfs/evaluation_egs_Tech_2008.pdf.

Topic Area 2: System Demonstrations

This topic area seeks projects that will successfully characterize a geothermal system with low natural productivity, develop a plan to stimulate the productivity of the system, stimulate a well in the system and monitor the productivity or injectivity of the well in relation to other wells available in the system. The projects will allow testing and validation of stimulation techniques for improving productivity of wells or increasing inter-well connectivity at existing geothermal fields. Use of available or experimental technologies from geothermal, petroleum or other relevant industries will be considered.

Should you have questions regarding the operation of Grants.gov, please contact the Grants.gov Contact Center at support@grants.gov or 1-800-518-4726. Contact Center hours of operation are Monday–Friday from 7:00 am to 9:00 pm Eastern Standard Time.

Visit <https://e-center.doe.gov/iips/faopor.nsf/3b3cff0a4a1f243485256ec100490e1a/c6ac09127a4b508b8525746c005f950d?OpenDocument> for information and instructions. The full announcement can be found at [Announcement DE PS36-08GO98008.pdf](#). Additional information is available at [Document; Enhanced Geothermal Systems Research, Development, and Demonst...: 06/19/2008](#).

Rio Tinto Alcan and the International Business Leaders Forum, Prize for Sustainability (Responses Due September 12)

Rio Tinto Alcan and the International Business Leaders Forum seek nominations for the Rio Tinto Alcan Prize for Sustainability. The prize recognizes organizations demonstrating a comprehensive approach to addressing, achieving and further advancing economic, environmental and/or social sustainability. First prize is \$1 million. Responses due 9/12/08.

For more info, go to: <http://www.alcanprizeforsustainability.com/intro.php>.

Engineering Manager, Western GeoPower, Inc.

Western GeoPower, Inc. (WGPI) has an immediate opening for a full time Engineering Manager to be located in our Healdsburg, CA office. WGPI is looking for a flexible and entrepreneurial person who can assist in a variety of tasks to grow WGPI into world class renewable power developer/operator. The ideal candidate will possess 5+ years of technical design, project engineering and operational support in the geothermal power industry. Must have geothermal power and experience working in the Geysers and Salton Sea or similar geothermal field. H2S abatement strategies, steam quality, production/injection systems and plant operations are all a plus.

The Engineering Manager will report to the Operations Manager and be responsible for the following key tasks:

- Technical support for Project Permitting
- Technical oversight of the Detailed Engineering Contract (power plant and gathering system)
- Evaluation of Value Engineering and Technical Betterment Projects
- Technical support for Project Construction issues (technical support for WGP's Construction Manager)
- Technical support for New Development Projects
- Technical support for future Plant Operations, Reporting, Plant Optimization, Environmental Compliance, Safety and Training

To apply for the position, please send a Word formatted resume to Redfish Technology
Chris@redfishtech.com.

Requests for Proposals (RFPs)

RFP for Clean Energy and Cost Effective GHG Reductions, EPA (August 6)

The U.S. Environmental Protection Agency requests proposals for Cost-Effective Approaches to Reducing Greenhouse Gas Emissions through Energy Efficiency, Clean Energy, and Corporate Greenhouse Gas Management Grants. Proposals should demonstrate the potential to create lasting change in the market for energy efficient and clean generation products, services, and best practices and should address areas including, but not limited to: Improving energy performance in the residential and/or commercial/government market through increased use of high-efficiency products; Improving quantification and management of greenhouse gas emissions, reductions, and energy use across the lifecycle of products, and; increasing demand/market penetration for green power products and on-site renewables. \$6 million expected to be available, up to 20 awards anticipated. Responses due 8/6/08.

*For more info, contact Kayla Roach at roach.kayla@epa.gov or go to:
<http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=42115>.
Refer to Sol# EPA-OAR-CPPD-08-04. (Grants.gov 6/23/08)*

RFO for Renewable Power and RECs, California (August 8)

The City of Roseville, CA seeks offers for renewable electric power and/or renewable energy certificates (RECs). Only resources with a first point of interconnection to the Western Electricity Coordinating Council wholesale power grid will be considered. Responses due 8/8/08.

*For more info, contact James Takehara at jtakehara@roseville.ca.us or go to:
<http://www.roseville.ca.us/rfps/request.asp?bidID=41>.
(Green Power Network 7/11/08)*

RFP for Renewable Energy, Arizona Public Service (August 13)

The Arizona Public Service seeks at least 35,000 MWh and up to 1,000,000 MWh from renewable energy resources. Notice of Intent to Bid is due 7/11/08, final proposals due 8/13/08.

*For more info, contact Gordon Samuel at RenewableRFP@aps.com or go to:
<http://www.aps.com/aps/rfp/renewable2008/default.html>.*

RFP for Renewable Energy, Tucson Electric Power Co. and UNS Electric (September 5)

Tucson Electric Power Company and UNS Electric RFP seek up to 150,000 MWh from eligible renewable energy resources and associated credits to meet Arizona's RPS requirements. Responses due 9/5/08.

*For more info, contact Carmine Tilghman at ctilghman@tep.com or go to:
<http://www.uesaz.com/Wholesale/>. (Green Power Network 6/7/08)*

RFP for Energy Frontier Research Centers, U.S. DOE (October 1)

The U.S. Department of Energy requests proposals for Energy Frontier Research Centers (EFRCs) to accelerate the rate of scientific breakthroughs needed to create advanced energy technologies for the 21st century. The EFRCs will pursue the fundamental understanding necessary to meet the global need for abundant, clean, and economical energy. Through this initiative, DOE seeks to bring together the skills and talents of multiple investigators to enable fundamental research of a scope and complexity that would not

be possible with the standard individual investigator or small group research project. \$500 million expected to be available, up to 50 awards anticipated.

Responses due 10/1/08. For more info, contact Emiela Bradford at emiela.bradford@ch.doe.gov or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/933104E42D0185E58525742100694C78?OpenDocument>. Refer to Sol# DE-PS02-08ER15944. (Grants.gov 4/4/08)

RFP for Early Stage Clean Energy, New York State Energy Research and Development (October 1)

The New York State Energy Research and Development Authority requests proposals for Early Stage Support for Developers of Renewable and Clean Energy Technologies. Through this initiative, NYSERDA seeks to create sustainable support networks and infrastructure for early stage renewable and clean energy technology companies and entrepreneurs and provide them with critical opportunities to facilitate partnerships and develop or market products. \$5.77 million expected to be available, individual awards NTE \$1.5 million. Responses due 10/1/08.

For more info, contact Judy Jarnefeld at jj1@nyserda.org or go to: <http://www.nyserda.org/Funding/1216pon.asp>. Refer to PON# 1216.

RFP for Renewable Energy Resources, Public Service Company of New Mexico (October 15)

PNM issued a request for proposals (RFP) for renewable energy projects on July 18, 2008. The RFP is seeking multiple proposals for wind, solar, geothermal and bio-fuel energy resources. PNM is seeking renewable energy sources that can be available beginning in 2009 and no later than 2011. A pre-bid conference will be held at the PNM downtown office in Albuquerque and via teleconference on July 30, 2008. RFP Responses due October 15.

All inquiries and other communications relating in any manner to this RFP must be directed in writing, by mail, facsimile or email, to the PNM RFP administrator. The questions and corresponding answers (without identification of the party asking the questions) will be emailed to all parties that have provided a Notification of Intent to Respond ("Notification") to this RFP. Contact information is provided below.

RFP Administrator
Public Service Company of New Mexico
Alvarado Square MS 1006
Albuquerque, N.M., 87158-0001
Phone: 505-241-4700
Fax: 505-241-2202
Email: renewableRFP@pnm.com

The entire RFP can be found at http://www.pnm.com/rfp/renewables/docs/rfp_renewables.pdf.

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 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 United States Department of Energy in support of debt financing for projects in the United States that employ energy efficiency, renewable energy, and advanced transmission and distribution technologies that constitute New or Significantly Improved Technologies. This Solicitation is issued in accordance with the terms and conditions of Title XVII and the Final Regulations. All applicants are encouraged to review and become familiar with the requirements of Title XVII and the Final Regulations, the provisions of which govern this Solicitation; copies of these authorities may be found at <http://www.lgprogram.energy.gov/>.

DOE will make no more than \$10 billion in loan guarantee authority available under this Solicitation for projects employing energy efficiency, renewable energy and advanced transmission and distribution technologies that constitute New or Significantly Improved Technologies. The Department’s authority to issue this amount of loan guarantees was provided by the Consolidated Appropriations Act, 2008, P.L. No. 110-161 (the “FY08 Appropriations Act”). Under the terms of the FY08 Appropriations Act, the availability of this loan guarantee authority expires on September 30, 2009.

Project Types

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 below project types and technology categories most accurately represents its project:

Technology Categories

DOE will consider projects derived from the list of technology categories identified below and which fall within one of the three distinct project types described above. Attachment E provides an illustrative list of technologies potentially constituting New or Significantly Improved Technologies that fall within each of these technology categories.

Category 1: Alternative Fuel Vehicles

Category 2: Biomass

Category 3: Efficient Electricity Transmission, Distribution and Storage

Category 4: Energy Efficient Building Technologies and Applications

Category 5: Geothermal

Category 6: Hydrogen and Fuel Cell Technologies

Category 7: Energy Efficiency Projects

Category 8: Solar

Category 9: Wind and Hydropower

To the extent an applicant has questions relating to the application process at any time prior to submission of its application to DOE, the applicant may set forth its question in an email to the LGPO at lgprogram@hq.doe.gov. Please include in the subject line “RETDEE Solicitation Question.” Completed applications must be submitted to DOE electronically through the Fed Connect website located at www.fedconnect.net no later than 11:59 pm (ET) on Wednesday, December 31, 2008.

The full announcement can be found at. Visit <http://www.lgprogram.energy.gov/keydocs.html> for more information.

Upcoming Events

Nevada Geothermal Lease Sale, BLM, August 5

The BLM geothermal lease sale in Nevada on August 5, 2008 will be at the BLM Nevada State Office, 1340 Financial Blvd. Reno NV 89502.

8:00 a.m. Registration and assignment of bidder numbers

9:00 a.m. Competitive sale begins

For more information go to:

http://www.blm.gov/nv/st/en/prog/minerals/leasable_minerals/geothermal0/ggeothermal_leasing.html.

Geothermal Technologies Workshop, Western Area Power Administration, August 11-12 (Everett, WA)

Western Area Power Administration (Western) is hosting a Geothermal Technologies workshop. The theme is “Electric Utilities’ Roles in Promoting Geothermal Energy Technologies.” It is cosponsored by the American Public Power Association (APPA), the National Rural Electric Cooperative Association (NRECA), and the Utility Geothermal Working Group (UGWG).

The target audiences for the workshop are utility staff who are interested in learning about geothermal technologies—including geothermal heat pumps (GHP) and geothermal power production—who want to compare them with other resource options, or who want to learn how to improve on existing programs. Through class presentations, case histories, and demonstrations, attendees will learn about:

- Cost effectiveness tests of GHP from the utility and customer perspectives
- Case histories of GHP systems energy savings over conventional HVAC systems
- How GHP programs qualify as energy efficiency programs
- New drilling and installation techniques
- Cost comparisons of geothermal power and other resource options

Georg Shultz the Director, Electric Staff Division for the USDA’s Rural Utility Services (RUS), will give an update on the RUS’s work with cooperatives on promoting geothermal technologies in rural areas.

Workshop fees are \$90 for one day and \$125 for both days. Reduced fees for APPA, NRECA, NWPPA, and State Working Group members and Western Customers are \$60 and \$90. If you wish to attend, please fill out the registration form and send a check to made payable to Utility Forum Connection to:

Utility Forum Connection
PO Box 255
Lincoln City, OR 97367

Questions? Contact Guy Nelson, energyguy@utilityforum.com or (541) 994-4670.

High Sierra Energy Summit, August 11-15 (Mammoth Lakes, CA)

The 2nd Annual High Sierra Energy Summit, sponsored by the High Sierra Initiative, is a weeklong series of courses focusing on energy efficiency and renewable energy resources. It will take place from August 11-15 at Cerro Coso Community College. Courses will run from 8:30 a.m. to 5:00 p.m. Monday through Friday.

For more information or to register, please visit <http://www.highsierraenergysummit.com/index.html> or contact Rick Phelps at phelps@highsierraenergy.org or 760-934-4650.

Renewable Energy Philippines 2008, August 28–30 (Manila, Philippines)

This is the First International Exhibition & Conference on Renewable Energy in the Philippines.

Renewable energy is getting more and more attention because of global warming. Renewable Energy Philippines 2008 is a link to enable the U.S. Renewable Energy providers, manufacturers, and researchers to go overseas and encourage other countries to invest in environment friendly energy sources.

Asian Development Bank & World Bank will speak on Future Carbon Fund, Carbon Finance Program, and support of CDM Projects.

August 28–30, Hall 3, SMX Convention Center
Metro Manila, Philippines

The exhibition provides a one-stop B2B and technology exchange platform for equipment manufacturers and suppliers, project operators, financing institutions, oil & gas producing companies, state-owned companies and relevant Government Agencies to meet and do business under one roof and venue. Exhibition profile includes all equipment, technology applications and projects available for investment in alternative fuels, gas energy, geothermal energy, hydro energy, ocean energy, solar energy, wind energy, and others.

Contacts:

- TDC Events International Inc., 1504 Francisco Street Berkeley, CA 94703
- USA Contact: Maria Gomez, Tel: +1 305 4365751, Fax: +1 305 4365352, Cel: +1 305 7722549, e-mail: maria@andinalink.com
- Latin America Contact: Andrea Valencia, Tel: +571 4821717, Fax: +571 3128782, e-mail: andrea@andinalink.com
- Web site: www.dp-link.com

Brita Climate Ride, September 20–24 (New York to D.C.)

Seeking participants from all sectors of renewable energy.

On the eve of the elections, one hundred Climate Riders will cycle from New York City to Washington DC to make a powerful statement about the need for renewable energy legislation and climate change awareness.

Join fellow Climate Riders for a beautiful ride that begins in the urban landscape of Manhattan, then meanders through rural New Jersey, Pennsylvania, and the equine estates of Maryland to the ride finale in Washington, DC. Along the way, expert speakers meet our cyclists each evening to discuss climate science, green technology, and how to reduce our carbon footprint. Meet people committed to resolving the climate crisis, make your voice heard, and benefit an important cause—all on an unforgettable vacation!

To learn more about Climate Ride and our beneficiaries, visit www.ClimateRide.org, or email info@climateride.org.

GEA Trade Show/GRC Annual Meeting, October 5–8 (Reno, NV)

The GEA Trade Show and GRC Annual Meeting will take place October 5-8 Peppermill in Reno, Nevada. Annually, Geothermal Energy Association hosts a wide range of companies working in the U.S. and abroad within the geothermal power industry at its Trade Show. Last year in Reno/Sparks, Nevada, 71 booths were visited by over 1000 visitors. With dramatic growth underway in geothermal power projects in the U.S. and internationally, we expect the 2008 trade show in Reno to be our largest event yet!

For more information about the GEA Trade Show, visit http://www.geo-energy.org/2008_ts/index.htm.
For information about the GRC Annual Meeting, go to <http://www.geothermal.org>.

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.

Utah Geothermal Lease Sale, BLM, November 18

The Utah State Office has scheduled a proposed competitive geothermal lease sale. The proposed sale will be held in conjunction with the oil and gas lease sale on November 18, 2008.

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.

More information available at <http://www.blm.gov/ut/st/en/prog/energy/geothermal0.html>.

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 structure and the list of sessions below are preliminary. A number of Keynote addresses will be given by eminent scientists, on subjects relevant to the main themes of the conference (as indicated in this circular). Lectures will be open to all participants and will take place in a large conference hall.

The following will be the themes for oral and poster sessions:

- Session 1: Exploration: Geology, Geophysics, Geochemistry, and Hydrology
- Session 2: Drilling and well design: Shallow and deep, Production and Injection
- Session 3: Field development, Production Technology, Power generation & Operation.
- Session 4: Reservoir Engineering: Well Testing, Injection, and Modeling
- Session 5: Case Histories
- Session 6: Economics and Financing
- Session 7: Environmental, Social, Legal and Institutional Aspects
- Session 8: Direct Use: Agri- and aquaculture, Mineral extraction, Manufacturing, Air conditioning etc.

Contributions

The organizers of ARGeoC2 welcome submission of titles/extended abstracts for oral and poster presentations from all geoscientists, engineers and others involved in geothermal resources exploration and development. Authors may submit papers for publication only, or for presentation and publication in “The Conference Proceedings.” Papers may be selected for presentation in a technical session, or poster session. Selection of papers for presentation will be based on subject material suitability, professional standards of writing, and quality of the illustrations. Time allotted for oral presentations will be 15 minutes each, with an additional 5 minutes for discussion. Oral presentations will be illustrated with LCD Projector in PowerPoint.

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.

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

The Canadian Geothermal Energy Association (CanGEA) announces their Conference and AGM on April 16–17, 2009 in Vancouver, B.C.

CanGEA's also announces its corporate members website is up and running. Corporate members have access to job postings, committee information (progress, research), presentations, and business opportunities (international JVs, work up for bid, or other geothermal prospects).

Updated library of links and pdfs of Canadian geothermal research papers and documents (from multiple resources), reserves (geothermal energy potential, estimates for Canada), and online advertising opportunities will soon be available.

Visit the Web site for information on the conference and for more news from CanGEA at 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.
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