



GEOTHERMAL ENERGY ASSOCIATION

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National News

Congressman Roscoe Bartlett and 35 Colleagues Introduce Bipartisan Companion To Break Stalemate on Extension of Renewable Energy Tax Credits [Press Release—May 8]

Congressman Roscoe G. Bartlett, joined by 35 House colleagues, has introduced a bipartisan companion, H.R. 5984, to S. 2821, the bipartisan Clean Energy Tax Stimulus Act of 2008. S. 2821 was introduced by Senators Maria Cantwell (D-WA) and John Ensign (R-NV) and has 43 cosponsors. S. 2821 was included as an amendment to The Foreclosure Prevention Act of 2008 which was approved by a vote of 88-8. House leaders stripped that provision from the bill when it was considered in the House.

“In one of his columns last week, New Times’ Thomas Friedman decried the stalemate that has so far prevented the extension of renewable energy tax credits that would otherwise expire this year,” noted Congressman Bartlett. “That was the impetus behind this effort to get things moving on the House side. The Senate has led on this issue with a bipartisan bill and an overwhelming bipartisan vote in support of extending these important incentives for clean, domestic renewable energy production. I hope the House will agree to quickly follow suit. I am glad to be so quickly joined in this bipartisan effort with 34 colleagues.”

The Clean Energy Tax Stimulus Act of 2008 - S. 2821/H.R. 5984 would provide for the limited continuation of clean energy production incentives and incentives to improve energy efficiency that would otherwise lapse under current tax law. The continuation will prevent a downturn in clean and renewable energy sectors, create jobs, save people and businesses money, and over time reduce energy costs. It is estimated that consumers could save up to \$500 on their taxes if they install energy efficient products in their homes that can also help them reduce their heating and cooling costs by 20 percent.

Specifically, the bill would extend critical tax incentives such as, the production tax credit for electricity produced from renewable sources like wind, biomass, hydropower, and geothermal; and the 30 percent investment credit for businesses that install solar or fuel cell equipment. In addition, it extends a set of effective energy efficiency programs that give homeowners tax credits for installing energy efficient furnaces, windows and insulation to make their homes more efficient; that enable builders a tax deduction for going the extra mile and building more energy efficient new homes; that help businesses make energy efficient improvements to commercial buildings; and that encourage appliance manufacturers to produce the next generation of energy saving appliances.

New DOE Electricity Advisory Committee Members Announced

DOE Announces Membership of New Electricity Advisory Committee [Press Release]

The U.S. Department of Energy (DOE) has announced the members of its newly-established Electricity Advisory Committee. The 30 inaugural members will serve one- or two-year terms and include some of the nation’s top public and private sector leaders in electricity policy, planning and operations. The

Committee was established to provide counsel to the Department on long-range planning and priorities for the modernization of the Nation's electricity delivery infrastructure.

"To meet our nation's growing energy needs, we must continue to integrate emerging technologies and implement bold policies that ensure clean, affordable and reliable supplies of electricity to the American people," DOE Assistant Secretary for Electricity Delivery and Energy Reliability Kevin Kolevar said. "The Department will benefit greatly from the advice and counsel we will receive from this diverse and talented group of individuals. The Committee's guidance and support are welcome as we make critical decisions on strategically important electricity related issues."

The Committee—chartered by Secretary Bodman last month—will provide senior-level counsel to DOE's Office of Electricity Delivery and Energy Reliability in carrying out its mission and meeting requirements of the Energy Policy Act of 2005 and the Energy Independence and Security Act of 2007. In addition, the Committee will advise the Office on deployment of smart grid technologies, research and development of energy storage technologies, renewable energy resource system integration, and new transmission infrastructure to ensure the efficient delivery of electricity.

Linda Stuntz, who served as Deputy Secretary of Energy from 1992-1993 and held other senior positions in DOE from 1989-1992, will chair the Committee. The Committee will hold its first meeting on May 20, 2008 in Arlington, VA and will meet at least annually thereafter. The Committee may choose to hold additional meetings and may appoint subcommittees to undertake certain projects as needed. The Electricity Advisory Committee is compliant with the 1972 Federal Advisory Committee Act.

The following are the inaugural members of Department of Energy's Electricity Advisory Committee:

Linda Stuntz, Committee Chair
Founding Partner
Stuntz, Davis & Staffier, P.C.

Policy Director
American Wind Energy Association

Guido Bartels
General Manager
Global Energy and Utilities
IBM

The Honorable Dian Grueneich
Commissioner
California Public Utilities Commission

Gerry Cauley
President and Chief Executive Officer
Southeast Electric Reliability Council

Michael Heyeck
Senior Vice President
Transmission
American Electric Power

Ralph Cavanagh
Co-Director
Energy Program
Natural Defense Resources Council

Hunter Hunt
President
Sharyland Utilities, LLP

Jose Delgado
President and Chief Executive Officer
American Transmission Company

Susan Kelly
Vice President
Policy Analysis and General Counsel
American Public Power Association

The Honorable Jeanne Fox
President
New Jersey Board of Public Utilities

Irwin Kowenski
President
Occidental Energy Ventures Corporation

Joseph Garcia
President
National Congress of American Indians

Barry Lawson
Manager
Power Delivery
National Rural Electric Cooperative Association

Robert Gramlich

Yakout Mansour

President and Chief Executive Officer
California Independent System Operator

Ralph Masiello
Senior Vice President
KEMA

John McDonald
General Manager
Marketing, Transmission & Distribution
GE Energy

Steve Nadel
Executive Director
American Council for an Energy Efficiency
Economy

David Nevius
Senior Vice President
North American Electric Reliability Corporation

Brad Roberts
Chairman
Energy Storage Association

Enrique Santacana
President and Chief Executive Officer and
Region Manager
ABB North America, ABB, Inc.

The Honorable Tom Sloan
Representative
Kansas House of Representatives

The Honorable Barry Smitherman
Chairman
Texas Public Utilities Commission

Tom Standish
Senior Vice President and Group President
Regulated Operations
CenterPoint Energy

Robert Thomas
Professor
Electrical and Computer Engineering
Cornell University

Paul Tonko
President and Chief Executive Officer
New York State Energy Research and
Development Authority

Vicky Van Zandt
Senior Vice President
Transmission Business Line
Bonneville Power Administration

Bruce Walker
Senior Staff Attorney
Consolidated Edison of New York

Jonathan Weisgall
Vice President
Legislative and Regulatory Affairs
MidAmerican Energy

Malcolm Woolf
Director
Maryland Energy Administration

Senate Democrats Introduce Consumer-First Energy Act

Press Release

On May 7, 2008, Senator **Reid** introduced **S. 2991**, the *Consumer-First Energy Act of 2008*, which would create a tax on "windfall profits" of the major oil companies at a special supplemental rate of 25 percent; repeal the Section 199 deduction for the major oil and gas companies and tightens the rules restricting the use of foreign tax credits on oil and gas related income; suspend filling of the Strategic Petroleum Reserve (SPR); punish price gouging; limit excessive speculation in the oil markets; and crack down on the Organization of the Petroleum Exporting Countries (OPEC). The "windfall profits" tax would not apply to profits of oil companies that are invested in clean, affordable and domestically produced renewable alternative fuels, expanded refinery capacity and utilization, or renewable electricity production.

For more information go to: http://democrats.senate.gov/dpc/dpc-new.cfm?doc_name=lb-110-2-78

NRDC Report Indicates Problem with Grandfathering and Windfalls

A new Natural Resources Defense Council (NRDC) report considers “potential financial windfalls to the nation's top 100 electric power companies under competing "cap-and-trade" bills currently being considered by the U.S. Congress,” according to an article on *Sightline Daily*.

The article included several points made by the report:

- “A key difference among the proposals is how many emissions permits the government gives out for free, and how many are sold at a public auction.”
- “Grandfathering means big money to the biggest utilities”; free allocation may be a way to persuade utilities not to fight cap-and-trade legislation.
- “Many electric utilities are subject to government price regulations that may limit these windfalls,”—but nationally, they are a huge problem.

For the complete article, visit http://daily.sightline.org/daily_score/archive/2008/05/02/grandfathering-and-windfalls.

The NDRC report is available at <http://www.nrdc.org/air/pollution/benchmarking/>.

Company News

Nevada Geothermal: Flow Tests Indicate High Temps at Blue Mountain

Nevada Geothermal's Blue Mountain Well 58-15 Update [Press Release—May 9]

Nevada Geothermal Power Inc. (NGP) announced today the completion of Well 58-15 to a depth of 5706 feet (1740 meters) at a step-out location 0.8 miles (1.2 kilometers) from production Well 26A-14. Upon completion, the well has been confirmed as a producer with geothermal fluid production between 4675 and 5603 feet (1425 and 1708 meters).

Preliminary flow tests indicate that Well 58-15 will be a high-temperature producer. The well flows unassisted at flow rates higher than previous wells and at temperatures greater than 400 degrees F (200 degrees C).

Fierce geothermal fluid flow and debris exiting from the well precluded Welaco Well Analysis Group (Welaco) from completing temperature/pressure/spinner (TPS) surveys in the open hole. The deepest Welaco data was at 1820 feet which confirmed a temperature of 404 degrees F (207 degrees C) - the highest measured temperature in any well to date at Blue Mountain.

Indications are that Well 58-15 will be as good a producer as other wells reported to date. Currently, a liner is being installed to stabilize the well and the test separator is being modified to accommodate higher flow rates. Subsequently, production testing, including flowing TPS surveys as well as injection testing, will be conducted under the supervision of GeothermEx Inc. to fully determine the production and injection capacity characteristics of Well 58-15.

Ormat: Announces First Quarter Financial Results, Will Sell 3,100,000 Shares

Excerpts from press releases:

Ormat Technologies, Inc. Reports First Quarter 2008 Results, Q1 Total Revenue Increased 12.4% to \$69.4 Million, Q1 Net Income of \$10.1 Million [Press Release—May 6]

Ormat Technologies, Inc. (NYSE: ORA) today announced financial results for the first quarter of 2008. Total revenues for the first quarter were \$69.4 million, versus \$61.7 million for the first quarter of 2007, an increase of 12.4%, consisting of an increase of 36.3% in revenues from the Company's Electricity Segment, offset in part by a reduction in revenues from the Products Segment.

The Company reported net income of \$10.1 million, or \$0.24 per share of common stock (basic and diluted), as compared to a net loss of \$5.8 million, or \$0.15 per share of common stock (basic and diluted), for the first quarter of 2007. The increase in net income is due primarily to an increase in generating capacity and energy generation, as well as an increase in energy rates in the United States, which offset a decline in the Products Segment. In addition, the Company reduced cost of revenues by 16.0% on a year over year basis.

Commenting on the quarter's results, Dita Bronicki, Chief Executive Officer of Ormat, stated: "The first quarter performance was in line with our expectations for 2008 and highlighted our improved operating performance, increase in our overall generating capacity and improvement in power prices in certain projects.

"Since the beginning of the first quarter, we declared commercial operation for the Galena 3 and Heber South projects and continued to make progress on our exploration work to secure geothermal resources for 2010 and beyond. Also during the quarter, we strengthened our products backlog signing three EPC agreements for a total amount of over \$100 million, consisting of one geothermal and two recovered energy generation power plants, out of which approximately \$50 million are still subject to a Notice to Proceed. We expect to add an additional 174 MW by the end of 2009 from projects that are currently under construction, including Olkaria and Brawley," Ms. Bronicki continued.

Commenting on the outlook for 2008, Ms. Bronicki said, "Following our first quarter earnings results, we maintain our guidance for 2008 and expect our 2008 Electricity Segment revenues to be approximately \$245 million. We also expect an additional approximately \$9 million of revenues from our share of electricity revenues generated by Mammoth that is accounted for under the equity method. With regard to our Products Segment, we maintain our guidance for 2008 revenues and expect them to be between \$70 million and \$80 million."

Ms. Bronicki concluded, "We are excited with the progress we have made this quarter, especially in recovered energy generation, which has experienced increasing interest as the need for energy efficiency begins to play a greater role in combating global warming."

[Ormat Technologies, Inc. Announces Offering of 3,100,000 Shares of Common Stock \[Press Release—May 9\]](#)

Ormat Technologies, Inc. (NYSE: ORA) (the "Company") today announced that it has agreed to sell 3,100,000 shares of common stock to Lehman Brothers Inc. in a block trade. A registration statement relating to these securities has been filed with the Securities and Exchange Commission and became effective on January 31, 2006. A preliminary prospectus supplement relating to the offering dated May 8, 2008 has been filed with the Securities and Exchange Commission.

For news releases from Ormat, visit <http://www.ormat.com/news.php?did=137>.

Raser Technologies: Ground Broken for First Geothermal Plant in Utah in 20 Years

[Orrin Hatch Helps Raser Technologies Break Ground for Utah Geothermal Power Project \[Press Release—May 9\]](#)

Raser Technologies, Inc. (NYSE Arca: RZ) announced today that they held a groundbreaking ceremony for beginning the construction phase of the first geothermal power plant built in Utah in 20 years. Senator

Orrin Hatch participated in the groundbreaking ceremony in Beaver County, Utah, along with many other state and county government officials.

The planned geothermal power plant is anticipated to produce up to 11 megawatts (MW) of clean renewable energy this year.

Commenting at the groundbreaking ceremony, Senator Hatch said, 'Today marks a turning point in our energy future. I believe geothermal power will play an increasingly significant role in our nation's renewable energy plan. New geothermal technology, combined with Raser's innovative development strategy, can unlock this nation's vast reserves of geothermal power. If our goal is to reduce greenhouse gases, then increasing our renewable energy production is a must. Utah has one of our nation's largest geothermal resources, and I'm pleased Raser is setting the pattern for our future with today's groundbreaking.'

Jason Perry, Executive Director, Utah Governor's Office of Economic Development, also discussed Utah's efforts to increase the amount of renewable power produced and used in Utah. Mr. Perry said, "As one of the leading economies in the country and a progressive energy producing state, Utah is proud to be on the forefront of new cutting-edge technologies such as is being demonstrated today with this geothermal power plant."

Dianne Nielson, Energy Advisor to the Governor, also spoke at the groundbreaking and said, 'Renewable energy is a key component in helping to grow Utah's economy. By developing Utah's vast geothermal resources using new technology, Raser is helping to create an important new renewable energy industry in Utah. This type of clean renewable power is ideally suited to meet our needs for a diverse energy supply. At the same time, we are making our own renewable resources much more economically competitive. Most importantly, by developing low impact resources like geothermal, we not only protect our beautiful environment here in Utah, but we help revitalize our rural economies as well.'

'Today we have attained another milestone toward our goal of generating clean renewable electricity from the earth's substantial geothermal resources, which will reduce carbon emissions and produce healthier air for homes and families,' said Brent Cook, Raser's Chief Executive Officer. 'We are grateful for the support and service of Senator Hatch and the State of Utah. We will continue to endeavor to exceed our goals and meet the growing demand for clean renewable energy.'

For the latest news from Raser Technologies, visit <http://www.rasertech.com/news.php>.

Sierra Pacific: New Chairman to Replace Higgins in July

Philip Satre, member of Sierra Pacific's board since 2005, will replace Walt Higgins as chairman of Sierra Pacific Resources, parent of Sierra Pacific Power Co., according to an article at rgj.com. Higgins will retire on July 31.

The article quoted Satre: "I've seen the company make unprecedented progress. I will do everything I can to see that the momentum generated by Walt, Michael, and the entire team will continue from both the financial and operating perspectives."

See <http://www.rgj.com/apps/pbcs.dll/article?AID=/20080507/BIZ/805070414>

U.S. Geothermal: Drilling Commences in Eastern Oregon

[U.S. Geothermal Starts Drilling at Neal Hot Springs Project \[Press Release—May 7\]](#)

U.S. Geothermal Inc., a renewable energy company focused on the production of electricity from geothermal energy, announced today that drilling has begun on the first full size exploration well at the Neal Hot Springs Project located in eastern Oregon.

Well NHS-1 is permitted for 3,500 feet of depth and is being drilled parallel to the discovery well drilled in 1979 by Chevron Resources. The drilling program is estimated to take 30 days and will be followed by a well flow test and reservoir program of approximately 60 days.

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

Western GeoPower: New Geysers Well One of Strongest in 20 Years

Excerpts from press release:

Geysers Well Demonstrates 10 MW Initial Capacity [Press Release— May 6]

Western GeoPower Corp., a renewable energy development company, today announced that an eight hour multi-rate flow test carried out on completion of the WGP-1 well at The Geysers Geothermal Field in California has confirmed that the well is a strong producer, with an initial capacity of 10 MW (gross) and a forecast stabilized capacity of at least 7 MW (gross). The well will supply steam to the 35 MWe Western GeoPower Unit 1 plant, projected to start commercial operations in early 2010.

Well WGP-1 was directionally drilled to the east of the pad to a total depth of 8,410 feet (2,563 m) with numerous steam zones recorded between 5,400 feet (1,650 m) and bottom. Further deepening of the well was considered unnecessary. An eight-hour multi-rate flow test carried out by independent consultants GeothermEx, Inc. demonstrated an initial, unstabilized steam flow rate of about 161,000 lb/hr (72,100 kg/hr) at the design flowing wellhead pressure of approximately 80 psia. The rig has been skidded across the pad to immediately begin drilling well WGP-2 which is designed to intersect known productive zones to the north of the pad. Completion of WGP-2 is projected for July.

“We note with great satisfaction that the WGP-1 well is one of the strongest wells drilled at The Geysers during the past 20 years,” said Dr. Subir Sanyal, President of GeothermEx. “In addition, the higher than expected static reservoir pressure encountered (at least 280 psia compared to 250 psia assumed for project design) provide encouragement that future wells may show higher capacity than had been anticipated throughout the Western GeoPower leasehold.”

Following completion of well WGP-2 and relocation of the rig to the next pad, isochronal tests will be conducted at both wells by Geothermex to assess their long-term productivity and the results will be used for reservoir modelling purposes. Current projections call for the drilling of five to seven additional production wells and one injector well, with the final number to be determined on completion of reservoir modelling. An existing well is being assessed for re-work and may be used as a second injection well. The drilling program is scheduled for completion in late 2009.

Renewable News

***Energy Current* Article Highlights Geothermal Projects, Reports**

A May 5 article in *Energy Current* gave a nod to the heat building around the geothermal community, saying its days as the “Sleeping Beauty” of sustainable energy are coming to a close. It was a very thorough report on projects and news in the industry.

Referring to growing interest by investors toward the opportunities of geothermal energy, the article gave the example of Glitnir Bank, who opened an office in New York “with the aim of investing in geothermal projects,” stated the article.

The article was positive toward the future of the industry, citing “investment capital, a growing emphasis on cleaner-burning fuel alternatives to oil and gas, and technological know-how” as recent improvements. Expense of drilling, need for tax credits, and the need for skilled workers were named as challenges.

The article mentioned ways in which the U.S. government has, in part, begun to recognize the need of financial assistance in the geothermal industry. “Earlier this year, the U.S. Department of Energy (DOE) formed a multidisciplinary team with Ormat Technologies subsidiary Ormat Nevada, GeothermEx Inc., the University of Utah, the U.S. Geological Survey, and the national laboratories to create an Enhanced Geothermal System (EGS) at the Desert Peak hydrothermal field in Nevada. DOE has invested over US\$5 million in the effort,” stated the article.

It mentioned new projects, such as two new projects begun by Raser Technologies—one in Utah and one in Oregon. It also mentioned the new process for geothermal lease applications from the Bureau of Land Management, as reported in previous issues of *GEA Weekly Update*, in which BLM will hold sales on lands on a nominations basis.

The article quoted the GEA two-part report on the State of Geothermal Technology, which can be found at <http://www.geo-energy.org/publications/reports.asp>, to discuss technologies: “Author Mark Taylor noted that subsurface technologies must be improved, new exploration technologies developed, and drilling costs significantly reduced to utilize most of the geothermal resource base,” the article said.

The global appeal of geothermal was the closing topic of the article, with mention of projects or interest in countries like Canada, various parts of Africa, Chile, France, New Zealand, India, and more. Each area has different potential challenges, but U.S. support of international projects is growing—in fact, “While the U.S.’s support for domestic alternative energy development is questioned, the U.S. government has been encouraging other countries to pursue geothermal development,” states the article. Many private U.S. enterprises have contributed to expansion abroad, teaming with the local governments and businesses in areas of potential or realized development.

The article was very informative and gave a wide basis of insight into the geothermal industry, both domestically and abroad.

For the complete article, visit <http://www.energycurrent.com/index.php?id=3&storyid=10318>.

Renewable Energy Investment Tops \$100 Billion – UNEP

According to a new report from UNEP, “Global Trends in Sustainable Energy Investment,” investment in renewable energy has surpassed \$100 billion.

“...investments in renewable energy and energy efficiency industries set a new record of more than \$100 billion in transactions in 2006. In 2007, the upward trend continues, with capital investment occurring in sectors and regions previously considered too risky and too illiquid to merit the attention of the institutional investment community.”

The full report is available at: http://www.unep.org/pdf/SEFI_report-GlobalTrendsInSustainableEnergyInvestment07.pdf

Climate Change News

Two-Thirds Of Americans Want Next President To Act On Climate Change, New Poll Shows

Press Release

A new poll released April 22 shows that two-thirds of all U.S. adults (66%) believe it is important that the next president of the United States have a policy which addresses climate change. Almost half, or 44%, believe it is extremely or very important, and only 14% believe it is not at all important. A significant majority of Americans -- sixty-three percent (63%) of U.S. adults -- say it is important that the new president, soon after taking office, initiates strong action to address global warming/climate change.

The findings of the poll, commissioned by the non-partisan Presidential Climate Action Project (PCAP) and conducted by Harris Interactive, may surprise experts. As some polls show, when asked broadly about what issues are important, the environment or climate change do not rank near the top of those lists," said Bill Becker, PCAP's executive director. But when asked about the overall importance of climate change, it is clear from these numbers that strong majorities of American voters want action on the issue, and expect our next president to do something soon after taking office."

The poll found that more women than men want a president with such a policy (69% versus 63%). The poll also found that the importance of the next president having a climate change policy is significantly stronger in the Northeast (74%) followed by the West (68%). Both Hispanic Americans (75%) and African-Americans (72%) say it is important that the new president have a policy on climate change.

Asked about the urgency they place on the next president initiating strong action to address climate change soon after taking office, 63% of likely U.S. voters believe such urgent action is important. Seven out of 10 Hispanic Americans (70%) and 68% of African-Americans support urgent presidential action. Forty-one percent (41%) of likely U.S. voters believe it is extremely or very important that the president takes strong action to address climate change soon after taking office, and only 16% believe it is not at all important.

The poll found that people who are more certain to vote are more likely to believe it is important for the next president to have a policy for climate change; and that he or she initiate action in this area soon after taking office.

To read more about the poll results, go to: http://www.climateactionproject.com/harris_poll.php

Renewable Leaders Discuss Ability to Offset Climate Change at EESI Briefing

The Environmental and Energy Study Institute (EESI) held a briefing last week on the role of renewable energy and the importance it plays in reducing greenhouse gases. The topic, "Can Renewable Energy Meet the Urgent Challenge of Climate Change?," brought together representatives from five sectors of renewable energy, including GEA's Karl Gawell. Three respondents from the political arena also participated, and a question and answer session explored further aspects of the issue.

The renewable energy participants presented the state of the industry as relevant to their sector. Wind, geothermal, hydropower, solar, and biomass were represented. They offered projections on what contributions will take place in coming years, and strongly advised the increased involvement of the federal government through monetary assistance.

John Stanton, Executive Vice President of the Solar Energy Industries Association, was one of many who appealed to the government to take more notice of renewables' ability to help reduce emissions. "If the problem is too much carbon, then the federal government should be giving more money to renewables," he said.

Fielding a question about what models are available to follow, Randy Swisher, Executive Director of the American Wind Energy Association, gave the example of the Competitive Renewable Energy Source in Texas. "It makes decisions about what renewable are most viable in each grid," he said, suggesting that a grid system is a possible model the U.S. could consider.

Gawell said he had recently returned from a conference in Germany where he was impressed by the dedication to renewable in that country. "They are developing geothermal projects there which would be like developing in West Virginia," he said, referring to the fact that West Virginia would not be considered a likely candidate for geothermal. "I think it shows how serious Germany is about geothermal and other renewable energy. I wonder how serious the U.S. is," he added.

Dr. Ana Unruh Cohen, Deputy Staff Director of the House Select Committee on Energy Independence & Global Warming, was one of the respondents. She spoke from experience, saying that her parents' house runs on solar power and that she sees how effective it is. "It can be done," she said. "Households across America can run on renewable energy."

London Study Links Baldness to Pollution

"Academics at the University of London linked the onset of male pattern baldness to environmental factors, such as air pollution and smoking," stated an article at thisislondon.co.uk. The study was published in the Journal of Investigative Dermatology. The scientists removed hair follicles from balding men and then performed laboratory studies on the samples.

The article quoted Mike Philpott from the school of medicine at Queen Mary, University of London: "We think any pollutant that can get into the bloodstream or into the skin and into the hair follicle could cause some stress to it and impair the ability of the hair to make a fiber. There are a whole host of carcinogens and toxins in the environment that could trigger this. It suggests that if you stop smoking or live in an area with less air pollution, you may be less predisposed to hair loss," he said. "There is an inherited basis to hair loss, but we have now identified environmental factors that are important too."

Scientists may be able to develop creams or other treatments to fight the effects of pollution on hair follicles, said the article.

<http://www.thisislondon.co.uk/news/article-23482299-details/Can%20baldness%20be%20blamed%20on%20air%20pollution/article.do>

State News

Colorado: Mt. Princeton Geothermal Wants to Develop 10-MW Facility

The Mountain Mail reported about 80 people present at a presentation on geothermal energy electricity generation in Chaffee County.

The article explained that Colorado's 2004 Renewable Energy Initiative, high oil prices, heightened interest across the nation, and new technologies contribute to a serious look at the geothermal potential in the area—whereas in the past, some companies held leases in the area for many years but never developed them.

"We are thinking a 10 megawatt facility is a reasonable objective," said Fred Henderson III, local property owner and chief scientist for Mt. Princeton Geothermal LLC, the company that wants to develop the area.

For the complete article, visit

<http://www.themountainmail.com/main.asp?SectionID=4&SubSectionID=4&ArticleID=13663>.

AP Reports Geothermal Energy To Meet All Campus Needs In Klamath Falls

The Associated Press reports on plans to utilize geothermal resources at the Oregon Institute of Technology. The story notes that the University is moving ahead with plans to use geothermal “water to meet all campus power needs.”

Using a combination of state and federal funds, OIT hopes to expand their heating system and install a 1.2 megawatt power plant.

It would require drilling a well to find even hotter water and building a power station.

Information from: Herald and News, <http://www.heraldandnews.com>

International News

Australia: Demonstration Plant Uses Hot Fractured Rock Technology

Venture Beat reports on hot fractured rock (HFR) geothermal energy currently being explored by what it calls “adventurous types in Australia.”

Geodynamics in Australia is nearing completion of a 50-MW demonstration plant, the article reports. The drilling on the Geodynamics well was completed in January and is now undergoing open circulations tests for process verification. Geodynamics has plans to produce over 500 MW of energy by 2016.

According to the article, other HFR projects are underway in France, Germany, Japan, and California.

<http://venturebeat.com/2008/05/07/australian-geothermal-project-could-show-worldwide-potential/>.

Australia: Heat Energy Abundant Scientists Reports

Press Release: AAS May 2008

Australia is uniquely endowed with heat-producing elements under its surface that could provide potentially unlimited amounts of geothermal power for this country, says geoscientist Dr Sandra McLaren.

Dr McLaren will speak about her research into Australia's heat-producing elements, and their potential for future energy production, at the Academy of Science's peak annual event Science at the Shine Dome today.

Dr McLaren is winner of the Australian Academy of Science's Dorothy Hill award for women in geoscience.

She says that west of the line between Cairns and the mouth of the Murray River lies a belt of rocks containing the enriched elements uranium, thorium, and potassium that are around 1.5 billion years old. These enriched elements are essentially a heat source located in the upper part of our continental crust.

'Our status as one of the most prospective countries in the world for geothermal power generation is due to this extraordinary enrichment in uranium. That's because when we bury these enriched rocks, even beneath only about two or three kilometres of sediment, they're capable of generating extremely high temperatures which we can use to generate geothermal power.'

She says that nuclear power and geothermal power use the same source of fuel – enriched uranium.

'The fundamental difference between the two energy options is the degree to which the uranium is enriched in a particular spot, and the way in which we choose to use it. So, although as geoscientists we are aware of this resource, there is still a lot of work we can do in assessing and documenting it and developing new exploration strategies and, further down the track, new technology to exploit this.

'Its an extraordinary resource that we have. Its had profound impact on our geological past, and we're at the point in time, in terms of society, of making a choice of what to do with that resource into the future.

'We have on average 2-3 times the normal concentration of uranium, thorium and potassium in the crust, so we're in a better position than probably any other country in the world to generate this type of geothermal energy.'

In terms of the future of geothermal power in Australia she says: 'Its potentially unlimited in terms of the actual resource. I think the thing that's going to constrain how and when we can use this resource for generating power is more on the engineering side, more understanding how to exploit it once we've identified how much is there.

'The exploration companies in Australia are used to exploring for base metals and gold and metallic resources. Exploring for geothermal energy is a different ask all together and we really need to develop a framework to get better data sets for us to assess different resources and better ways of looking for them.'

On receiving the Academy's award she said:

'It was a great surprise to hear that I was going to be awarded the Dorothy Hill [award]. Obviously it's an enormous honour to be awarded the prize in Dorothy's name. I've done a little bit of reading on Dorothy's work and her achievements, and her life-long commitment to science and education are pretty awe-inspiring, and an inspiration to women in all fields of academia, particularly geology.'

Having previously attended Science at the Shine Dome in 2000, Dr McLaren said it was '...a fabulous experience as a finishing PhD student to see the breadth of science that goes on in Australia and to be exposed to different fields and different areas...'

On women in science she says:

'In geosciences particularly, there still aren't a huge number of women, it's still very hard for women. I think women bring a wonderful perspective to science. It is a wonderful career to pursue, everyday is a challenge [and] you're solving problems that impact on society.

'From my reading that was one of the things Dorothy Hill was driven by: the belief that science can produce a better society, and if that's seen as the goal, then I think it's a wonderful thing for women to pursue, and they should be encouraged to do so, particularly at secondary school level.'

Science at the Shine Dome is the Academy's annual celebration of science. It highlights the research achievements of some of Australia's leading scientists.

To read the full release go to: <http://www.science.org.au/media/8may08.htm>

New Zealand: New Zealand Rich In Renewable Energy Sources, Says Government Agency

Press Release

Renewable energy comes from sources that are replenished as fast as they are used. Examples include energy from the sun (solar), wind, moving water, and plants such as pine forests, which supply firewood. This energy is harnessed to drive generators that produce electric power. Wind and solar energy are sustainable, clean sources of energy that have the potential to make a significant contribution to New Zealand's economy. New Zealand is rich in renewable energy resources and, more than other developed countries, already meets much of its energy needs by harnessing the power stored in rivers, lakes, geothermal fields and woody plants (known as biomass).

Nearly a third of the total energy consumed – including electricity, heat and transport fuels – comes from renewable sources. About 70% of all electricity is generated by renewable energy.

For the complete release go to: <http://waste.environmental-expert.com/resultEachPressRelease.aspx?cid=28058&codi=31427&level=1060&idproducttype=8>

Philippines: Bishop's Approval Would Increase Support for Kanlaon Project

The Philippines' Inquirer.net reports a meeting between Energy Secretary Angelo Reyes and Bacolod Bishop Vicente Navarra. Reyes took the opportunity to explain the Philippine National Oil Co.-Energy Development Corp.'s plan to tap geothermal energy at the Mt. Kanlaon Natural Park buffer zone, a subject that has had mixed levels of support due to its potential environmental concerns.

Reyes told Navarra the project would help the power shortage problem in Negros Occidental, the article said. He also made assurances that there would be measures to address environmental concerns.

The bishop agreed to another meeting on the subject, and Reyes told the press he sounded open-minded.

<http://newsinfo.inquirer.net/breakingnews/regions/view/20080508-135432/DoE-head-seeks-bishops-nod-for-Kanlaon-geothermal-project>.

Turkey: Minister of Energy Visits Iceland

The *Iceland Review Online* reported talks between Iceland's Minister of Industry Össur Skarphéðinsson and Turkey's Minister of Energy and Natural Resources Mehmet Hilmi Güler. Güler traveled to Iceland to discuss geothermal and hydroelectric energy projects in Turkey.

The article cited 2,000 MW potential for geothermal in Turkey. Currently, about 30 MW has been tapped.

Güler will also visit local energy companies like Rarik, Landsvirkjun, Sudurnes Energy, and Reykjavik Energy in Iceland.

See http://www.whatson.is/icelandreview/daily_news/?cat_id=40735&ew_0_a_id=305656.

Notices and Employment Opportunities

Partnership Opportunity—Denver Federal Center Well Logging Calibration Facility

The United States Geological Survey's (USGS) Central Regional Resources Office manages facilities and is responsible for the Bureau's overall environmental compliance. USGS is required to remove a scientific feature, a set of well logging calibration silos, from the Denver Federal Center property to allow for the transfer of title of such property as necessary for the Denver Regional Transportation District to complete its West Corridor Light Rail System. Specially configured rock within the silos with a known geophysical

response can be removed and relocated in new calibration units. USGS is proposing to use the Technology Transfer Authority 15 USC 3710 a as amended, to relocate this capability to a new institutional home with the ability to construct or integrate this capability into a silo system that can utilize the granite formations contained in the current silos. A draft Statement of Work outlining the major steps necessary to accomplish the collaborative effort has been prepared and is attached to this notice. USGS estimates that a partner or partners will need to provide funds and or services with an estimated value of \$250,000 to \$300,000.

This is not a procurement; the partner in a Technology Transfer effort contributes funds, equipment and /or in-kind services to the research effort.

For more information on the science effort contact Marshall Fischer, 303-236-9338; email mpfischer@usgs.gov. For information on Technology Transfer mechanisms contact Julia M. Giller, Technology Transfer Office, (352) 399-2133 or jgiller@usgs.gov.

*Contracting Office Address: U.S. GEOLOGICAL SURVEY, MANAGEMENT SERVICES BRANCH, P.O. BOX 25046, MS 205, DENVER, CO 80225 Appendix A *

Illustrative Statement of Work

1. Plan, design and construct a geophysical tool calibration facility which incorporates the granite material provided by USGS as part of its design and operation at a location identified and under the management control of the Collaborator.
2. Transport granite material from the Denver Federal Center to Collaborator's designated calibration site for installation. The parties recognize that it may be necessary to utilize construction staging areas for interim periods between phased construction of the calibration facilities.
3. Provide a project schedule for identifying benchmarks or milestones related to the completion of the reestablished calibration facility and commencement of its operations as a scientific venture.
4. Provide a calibration facility operations plan which articulates relevant operations information about the facility including, but not limited to:
 - a. Illustrative examples of the anticipated users of the facility as well as illustrative examples of the types of organizations expected to access this resource,
 - b. Anticipated conditions, requirements, restrictions, etc. deemed necessary to safeguard the facility's integrity as a scientific unit and protect the operational environment, and
 - c. Policy and procedure to ensure reasonable and generally open access to qualified users of the calibration facilities.

USGS recognizes that facility user fees may be necessary to provide for the sustained operations of the facility. However, the Bureau anticipates that fee decisions will fully consider the opportunity to maximize the scientific benefits of this facility and consequently provide, as might be necessary, reduced fees for small businesses, government entities, and non profit organizations. As indicated in the text of the Agreement, for two years following the date of execution of this Agreement, no fees will be assessed for U.S. Government Agencies or Departments to access the reestablished calibration facility.

Contracting Office Address:

U.S. GEOLOGICAL SURVEY, APS BLDG 53 DFCMS 205 DENVER CO 80225

Requests for Proposals (RFPs)

RFI for Enhanced Geothermal Systems Technologies Validation Site(s) —U.S. Department of Energy (Due May 30)

[Request for Information DE-PS36-08GO38003: Enhanced Geothermal Systems Technologies Validation Site\(s\)](#)

The Department of Energy is seeking information from the geothermal community to assist in the development of a possible Funding Opportunity Announcement, acquisition, or other procurement option

in regard to establishing Enhanced Geothermal Systems Technologies Validation Site(s). This will facilitate high risk technology development, validation, and deployment by participating organizations that would not otherwise take place at a commercial geothermal field. The information gathered from this RFI will be used by DOE for internal planning and decision making purposes, and will not be released to the general public.

The RFI will be listed at <http://e-center.doe.gov/iips/faopor.nsf/Solicitation%20By%20Program%20Office?OpenView&Start=1&Count=30&Expand=3#3> for comment. Comments in response to this RFI must be provided to the DOE Golden Field Office as an attachment to an e-mail message to RFI-08GO38003@go.doe.gov. Comments must be provided no later than 8 p.m. EDT, on May 30, 2008.

Renewables Purchase—Virginia, W. Virginia and Tennessee (Due May 30)

American Electric Power Service Corporation seeks up to 100 MW of long-term supply from new renewable energy resources on behalf of Appalachian Power Company.

Responses due 5/30/08. For more info, contact Peggy Simmons at pisimmons@aep.com or go to: <http://www.appalachianpower.com/go/rfp/>. (Green Power Network 4/11/08)

RFP Climate Change and Sustainability Conferences (Due June 5 and 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 1/7/08, 6/5/08 and 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 Frontier Research Centers—U.S. Department of Energy (Due 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)

Upcoming Events

Geothermal Energy Working Group Meeting, May 13, Santa Fe, NM

Date: Tuesday, May 13, 2008

Location: Porter Hall, Wendell Chino Building, 1220 South Saint Francis, Santa Fe, NM
Time: 8:00am–4:30pm

Meeting Overview:

This meeting will provide a forum on the exchange of information concerning the development of geothermal energy projects in New Mexico. Topics include but are not limited to: Ground Source Heat Pump Technology, Direct Use, District Heating Applications and Electricity Production.

Specific Goals of the Meeting Include:

- Updates on Strategic Planning action items for the working group
- Status of geothermal projects in NM
- Identify and discuss challenges concerning geothermal development in NM
- Sustainability of GSHP systems
- Discussion of drilling techniques and costs

Tentative Schedule:

8:00am—Sign in, Welcome

8:30am–Noon—Presentations

Noon–1:30pm—Lunch on your own

1:30–2:30pm—Presentations

2:30–4:00pm—Round Table Topics

4:00–4:30pm—Action Items, Adjourn

For information, contact Steve Lucero at 505.476.3324 or stephen.lucero@state.nm.us.

Western Renewable Energy Zones Project Kickoff, May 28, Salt Lake City, UT

The Western Governors' Association has launched a new initiative—the Western Renewable Energy Zones project—aimed at bringing more renewable resources online within the Western Interconnection as quickly as possible.

All interested parties are encouraged to attend the kickoff meeting of the WREZ Steering Committee on May 28, 1–5 p.m. at the Sheraton City Center in Salt Lake City. Steering Committee members include governors, Canadian premiers and public utility commissioners, or their representatives. Federal officials from the U.S. Departments of Energy, Interior, and Agriculture, as well as the Federal Energy Regulatory Commission, will serve as ex officio members.

The goal of the project is to identify renewable energy zones based on common transmission needs, developable potential, timeframes, and the cost of development. Conceptual transmission plans to priority zones will be prepared to facilitate the environmentally sensitive development of the most cost-effective renewable resources. All feasible renewable resource technologies will be evaluated.

A Technical Committee comprising representatives from the states and provinces will coordinate stakeholder participation and the development of reports for the Steering Committee to consider. Stakeholder work groups will be created to: 1) develop criteria and perform the technical analysis for zones; 2) address environmental, land use and permitting issues; and 3) consider modeling options related to generation and transmission development and coordinate stakeholder involvement.

Anyone interested in attending the meeting and/or participating on a work group may do so by going to: <http://www.regonline.com/Checkin.asp?EventId=616661>.

Questions about the meeting may be e-mailed to the project manager, Rich Halvey, at rhalvey@westgov.org.

UNCON FUEL 2008, May 28–29, Houston, TX

John A. Baardson, president and CEO, Baard Energy, will lead an impressive speaker list at SYNGAS Refiner's UNCON FUEL 2008, an unconventional transportation fuel and feedstock forum to be held in Houston, May 28 & 29 at the Marriott Westchase (www.SyngasRefiner.com/UNCON).

Idaho National Laboratory and Baard conducted coal-to-fuel plant simulation studies, concluding that CO₂ emissions from CTL fuels can be materially lower than emissions from traditional diesel.

Baard Energy's 50,000-b/d Ohio River Clean Fuels (ORCF) plant will use a coal/biomass feedstock to produce diesel, jet fuel and a pure CO₂ stream. Baardson will discuss how CTL plant developers can profitably incorporate biomass into the production of Fisher-Tropsch diesel.

U.S. CTL production could be supplying half the U.S. military's fuel requirements by 2015 and 70% by 2045. On the other hand, China, India and South Africa appear to be the leaders in this area, building numerous plants in the nominal 80,000-b/d range, while smaller U.S. CTL plants are being designed for roughly half that capacity.

Other UNCON FUEL 2008 speakers will address coal-based methanol-to-gasoline technologies, the CENTIA gasoline process and the Synfuels International process. View the full agenda online at www.SyngasRefiner.com/UNCON.

Early registration is \$997 through next Monday, April 21 and can be made online at <https://www.zeusdevelopment.com/secure/uncon/register.asp>.

To register over the phone or for questions, please contact us at 713.952.9500.

Geothermal Technologies Workshops, Western Area Power Administration, June 10-11 (Westminster, CO) and August 11-12 (Everett, WA)

Western Area Power Administration (Western) is hosting two Geothermal Technologies workshops. Their theme is "Electric Utilities' Roles in Promoting Geothermal Energy Technologies." They are 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 these workshops 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. Additional agenda details and other information are on the following pages. Both workshops are similar in structure and content.

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 on the following page and send a check to made payable to Utility Forum Connection and mail to:

Utility Forum Connection
PO Box 255
Lincoln City, OR 97367

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

SMU Geothermal Conference, June 17–18, Dallas, TX

Southern Methodist University will put on a Geothermal Conference June 17–18. This international conference specializes in the enhancement of existing oil & gas wells for electrical production. According to SMU, “Geothermal energy can be extracted from the well fluids using newly designed compact turbines with binary fluids. These systems are now sized to fit single wells or multiple wells with an approximate fluid temperature differential of 120°F+ between produced and cooling temperatures. Thus, in the Gulf Coast, temperatures of 225°F or higher are eligible. This electrical production (geothermal energy) is renewable and considered a baseload source and is capable of producing 24 hours a day. This capability gives new life to low yield producers with high water volume and a reason to keep them pumping. Undesirable high water flow geopressure wells become an immediate revenue path if converted to electrical production. With a system installed in Chena Hot Springs, Alaska and another installation going into the Wyoming Rocky Mountain Oil Field Testing Center, the ability to use low temperature fluids is no longer just a concept, rather it’s a reality. New technology, data, and economics will be presented to assist you in developing your company’s renewable energy portfolio using existing wells.

Topics Presented To Include:

- Power Generation Technology Advancements
- Geothermal Resource Exploration and Assessment
- Reservoir Engineering
- Fracturing
- Geopressure Development
- Tight Gas Sands Development
- Well Longevity—Corrosion and Scaling Management
- Enhanced Geothermal Systems – International
- Green Power for Utilities (RECs)
- Economics and Business Plan
- Transmission needs
- Regulations and Leasing
- Financing
- Demonstration Sites

For more information and to read the Call for Papers, visit
http://smu.edu/geothermal/Oil&Gas/2008/Geothermal_Energy_Utilization.htm.

2008 California Geothermal Summit, June 25, 2008, Davis, CA

The California Geothermal Energy Collaborative will be holding the 2008 California Geothermal Summit at the UC Davis Alumni and Visitors Center in Davis, California on Wednesday, June 25, 2008 from 9 a.m. to 4 p.m.

Sessions will cover the Energy Commission’s new integrated approach to renewables with the formation of the California Renewables Energy Collaboratives, an update on the CGEC Development Plan with a major focus on the next two years, status report on the California RETI transmission task force as it relates to geothermal development, California State Policies and Incentives to Promote Geothermal Energy, a Bureau of Land Management (BLM) presentation on the Draft of the Western Geothermal Programmatic Environmental Impact Statement (PEIS), and other topics under development.

More information on registration, accommodations and a draft agenda will be provided by the end of April on the CGEC web site and distributed by email.

Immediately following the Summit, from 5:30 to 8:30 p.m., and at the same location, BLM is planning to hold its California-wide Public Meeting for the Draft of the Western Geothermal PEIS. BLM indicated that the California Geothermal Energy Collaborative draws together the broadest interests from across the state, which will provide an excellent opportunity for soliciting comments and maximizing exposure of the Draft.

GEA “Geothermal 101” Workshop, July 23, New York City

GEA is planning a workshop in New York City on July 23rd to introduce the City’s finance and media communities to the geothermal industry. For those interested in supporting or sponsoring the day-long event, please contact Kathy Kent at 202-454-5263, or by email at kathy@geo-energy.org.

Oregon/Washington Geothermal Lease Sale, July 24

Note: This sale has been postponed from June 12, and nominations are still being accepted.

The Bureau of Land Management’s Oregon/Washington State Office had proposed to hold a geothermal resources lease sale on June 12, 2008. We received nominations for several parcels, and contacted the Forest Service and our District Offices.

The Forest Service responded that more environmental studies must be done in the Newberry Volcanic Area before a sale could be held. The Forest Service estimates that they will have leasing consent decisions by October 2008 at the earliest.

The new proposed sale date for parcels located in the Glass Butte area (Lake and Harney Counties) is July 24, 2008. The new date will allow the district to review sage grouse lek data to meet the required environmental review.

We are still accepting nominations for future sales. Nominations are not automatically placed on a sale when received, and BLM cannot guarantee that the nominated lands will always be included on a particular sale notice. The parcels must be reviewed for availability, and for environmental and cultural concerns prior to being placed on a sale. Sale parcels will normally be configured as requested; however, BLM reserves the right to adjust the parcel size and configuration as needed.

Each nomination must be submitted with a nonrefundable filing fee of \$100 per nomination plus \$0.10 per acre of lands nominated. If a land parcel consists of fractional acreage, please round the land acres up to the nearest whole acre.

Sale notices, results lists, and Form 32031 will be posted on our website at:
<http://www.blm.gov/or/energy/geothermal/index.php>

If you have questions regarding this notice, please call Donna Kauffman at 503-808-6162; write to the attention of OR936.2 at the address on this letterhead; or send electronic mail to Donna_Kauffman@or.blm.gov.

For updates on geothermal developments from the BLM, visit <http://www.blm.gov/or/energy/geothermal/>.

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 provide 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 include all equipment, technology applications and projects available for investment to the following fields of interest:

- Alternative Fuels
- Gas Energy
- Geothermal Energy
- Hydro Energy
- Ocean Energy
- Solar Energy
- Wind Energy
- Others—Battery, Energy Bank, Energy Saving Products, etc.

For more information, contact: 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

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>.*

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 website (<http://www.geotermia.org.mx>), and/or send a message to Luis Gutiérrez-Negrín.

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.

Scientific Program

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.

Sessions

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.



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