



# GEO THERMAL ENERGY ASSOCIATION

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**National News**

**Senate Passes \$300 Increase to DOE Budget for FY 07, Allowing DOE to Allocate Funds; Senator Reid Says He’ll Work to Ensure the Geothermal Program is Funded**

In the final omnibus FY 07 spending bill, the Senate approved increased funding for the Department of Energy but maintained the removal of earmarks, allowing the Department to decide how much each program, including the Geothermal Technology Program, will be funded. This was part of a larger budget package for FY 2007 that was passed four months after the start of the fiscal year for which they provide funding. Other increases in funding include education grants, veterans' health care, law enforcement and international AIDS relief as part of a \$463.5 billion spending measure. The spending bill passed in the Senate 81-15. “This is not a perfect resolution, but it is a thoughtful resolution,” said Senator Robert Byrd, a West Virginia Democrat who heads the Appropriations Committee. The measure “will ensure that we answer some of our nation's most pressing needs.” The legislation, which has already been approved by the House, now heads to President George W. Bush, who has signaled that he will sign it into law.

According to Senate Majority Leader Harry Reid’s Office, the Senator “is committed to ensuring that the geothermal energy research and development program continues in FY07. If the Administration attempts to shut it down or to make major changes as part of the soon-to-be submitted FY07 spending plan so that the current program is no longer effective in promoting development of the geothermal resources of Nevada and the West, then he will look at the FY07 Supplemental Appropriations bill and other available vehicles to prevent that from happening.” *For more information, please visit <http://www.bloomberg.com/apps/news?pid=20601103&sid=aVHyC6BYMbr8&refer=us>.*

Meanwhile, the House and Senate began their hearings on the Administration’s FY08 Budget, which proposes a series of funding cuts for geothermal programs at DOI and DOE, including zero for geothermal research. The House and Senate Budget and Appropriations Committees will begin working on their FY 08 funding measures in March.

## **Geothermal Energy Holds Promise, But Gets Little Attention, Recent Article Reports**

Geologists believe Utah sits on one of the prime reservoirs of geothermal energy in the United States, an energy resource that is clean, renewable, reliable and, to date, almost entirely untapped, a recent article reported. The article continued to talk about the fact that the Administration has recommended zero funding for the DOE Geothermal Program, despite the fact that the president has called for “an aggressive expansion of renewable energy.” Utah now has just one operating plant, at Roosevelt Hot Springs near Milford, which generates about 26 megawatts of electricity. Sen. Orrin Hatch, R-Utah, helped expand wind-power tax credits to include geothermal. A report by the Government Accountability Office said the tax credits may increase geothermal production by as much as 367 percent by 2017. The article concludes, “the tax credits aside, the federal government is cool to geothermal heat.” *To view the complete article, please visit <http://www.scrippsnews.com/node/19448>.*

## **EPRI Study: Emissions Reductions Will Take 20 Years**

Electric power companies, which emit about one-third of America’s global warming gases, could reduce their emissions to below the levels of 1990, but that would take about 20 years, no matter how much the utilities spend, according to a new industry study. The report, prepared by the Electric Power Research Institute, a nonprofit consortium, is portrayed as highly optimistic by its authors. The industry study calls for 64 gigawatts of additional nuclear power by 2030, an increase of about two-thirds from the current level. The study calls for cutting the growth in demand for electricity, which the Energy Department expects to increase at 1.5 percent a year. The study assumes growth of just 1.1 percent a year. It also calls for vast growth in wind energy and some solar energy. Renewable energy (leaving out hydroelectricity) now comes to only a little over 2 percent of kilowatt-hours generated; by 2030, it would be 6.7 percent. The biggest slice, 14.6%, is from so-called “clean” coal plants. *To view the complete article, please visit [http://www.nytimes.com/2007/02/15/business/15carbon.html?\\_r=2&oref=slogin&oref=slogin](http://www.nytimes.com/2007/02/15/business/15carbon.html?_r=2&oref=slogin&oref=slogin) (free log-in required).*

## **Bodman Discusses Energy Security at CERA Conference**

Partial Remarks as Prepared for Energy Secretary Samuel Bodman at the CERA Conference:

“As we all well know, the demand for energy is rising rapidly and will continue to do so in the coming decades. I trust you’ve heard the sobering projections many times – for example, that by 2030 global energy consumption will grow by over 50 percent, with 70 percent of that growth coming from the world’s emerging economies. ...As the world’s largest consumer and a principal supplier of energy resources, the U.S. must play a leading role in addressing the world’s energy challenges. ...President Bush has committed the United States to lead the world on a path to greater energy security. ...I ask our international partners to commit themselves to five major global goals, as the United States has:

1. First, we must diversify the available supply of conventional fuels and expand production.
2. The second goal is related to the first: we must diversify our energy portfolios by expanding the use of alternative and renewable sources. In the power sector, enhanced use of nuclear and renewable electricity generation – such as from solar photovoltaics, high-efficiency wind power and biomass – which produce virtually no air pollutants or greenhouse gases would limit emissions and take pressure off the demand for natural gas.
3. The third goal: we must promote increased energy efficiency and conservation measures.
4. Progress on expanding our use of alternatives and increasing global energy efficiency will move us toward a fourth goal: we must take steps to improve our earth’s environment to reduce pollution and the emissions intensity of the global economy.
5. The final goal: we must maintain the global energy supply system and protect critical energy infrastructure to ensure a more resilient, secure and less volatile market. If we are to truly expand our energy horizons, then we must set the bar high. We must bet on technology. And, we must

signal to private investors that our policy environment supports sustained investment in renewable and alternative fuels.”

To view the complete statement, please visit <http://www.energy.gov/news/4792.htm>.

## **ACORE Announces Publication of New Renewable Energy Certificate Purchase and Sale Agreement**

The American Council On Renewable Energy (ACORE) announced the release of the long-anticipated standard form contract for national trading of Renewable Energy Certificates (RECs) also known as "green tags". The agreement is a result of two years of collaboration through a working group organized by the American Council On Renewable Energy (ACORE), the Renewable Energy Resources Committee and Special Committee on Energy and Environmental Finance of the American Bar Association Section of Environment, Energy and Resources, and the Environmental Markets Association (EMA).

Individuals and companies can use renewable resources to improve the environment by minimizing their own "carbon footprint." Even if people are far from the renewable resource, through this agreement, they can acquire the renewable attributes of such energy no matter where they are located in the national energy grid without incurring transmission costs. Michael Eckhart, President of ACORE, stated, "This is an important step in creating a national system for REC trading, which will be essential to monetizing the environmental benefits of renewable energy and building those values into the long-term financing of the projects." *The Renewable Energy Certificate Purchase and Sale Agreement can be viewed on ACORE's website at: <http://www.acore.org/programs/rectrading.php>.*

## **Company News**

### **Sierra Geothermal Power: Drilling Begins at Reese River, Nevada**

Sierra Geothermal Power Corp. is pleased to report that drilling has commenced at the company's Reese River Project, Lander County, Nevada. Well 56-4 is an exploration slimhole and is permitted to a maximum depth of 1200 m (4000 ft). The objective of the well is to test geothermal reservoir characteristics. The drilling program is operated by Sierra Geothermal's US subsidiary, with partial funding of US\$580,000 by the US Department of Energy's GRED III program.

The Reese River project is rated by Richards and Blackwell as one of the top 15 undeveloped geothermal prospects in Nevada (Source: Geothermal Resource Council, Bulletin March/April 2002, The Forgotten Ones). Phillips Petroleum and Amax Exploration drilled 52 temperature-gradient holes during the 1970's and 1980's. Contoured data of the temperature-gradient wells outline a 150 degrees C/km heat-flow anomaly that is approximately 4.8 km (3 miles) long in the northeast direction by approximately 1.6 km (1 mile) wide. The center of the anomaly reaches a temperature gradient of over 500 degrees C/km with an overall average of 225 degrees C/km. The maximum calculated heat flow at Reese River is 1117 mW/m<sup>2</sup> (Amax 1998). Using a Monte Carlo simulation, the potential geothermal resource at Reese River was estimated to have a 90% probability of generating 13 MW and a 50% probability of exceeding 30 MW (Source: New Geothermal Site Identification and Qualification, PIER study prepared by GeothermEx, 2004). A 30 MW power plant is able to produce enough electricity to power 24,000 homes.

To help fulfill California's targets to reduce greenhouse gas emissions, the California Public Utilities Commission announced on January 25, 2007 a ban on long-term purchases of electricity produced by coal-fired power plants. The standard applies to investment in new power plants and to contracts of five years or more. The move is expected to have a significant impact on the future electrical energy market in California. This news is positive for the geothermal industry. Sierra Geothermal has several projects located near the California-Nevada border. The State of Nevada has adopted a Renewable Portfolio Standard, which requires utilities to have 20% of their electricity supplied from renewable sources by 2015.

To view the press release, please visit

<http://www.integratir.com/newsrelease.asp?news=2130981748&ticker=V.SRA&lang=EN&ny=on&title=full>.

### **Western GeoPower: Increases Geysers Geothermal Leasehold**

VANCOUVER, Canada, February 13, 2007: Western GeoPower Corp., a renewable energy company focused on geothermal energy development, today announced the acquisition of a geothermal lease covering 74 acres contiguous to the Company's Unit 15 Steam Field located within The Geysers Geothermal Field in Northern California. The total area under lease by Western GeoPower at The Geysers Field is approximately 600 acres and it is anticipated that one power plant will process steam production from the combined leaseholds.

In a Feasibility Report completed in October 2006, independent consultants GeothermEx, Inc. of Richmond, California, concluded the original two Unit 15 leaseholds acquired by Western GeoPower, covering 520 acres, will support a 25.5 Megawatt (net) power plant. Western GeoPower has commissioned GeothermEx to assess the potential for additional steam resources from the newly acquired leasehold.

"Potential drilling targets within the new leasehold can be accessed by directional drilling from existing drill pads," said Kenneth MacLeod, President and Chief Executive Officer of Western GeoPower. "With 19 drill pads available throughout the combined leaseholds and each pad capable of supporting multiple wells, significant cost savings can be realized throughout the proposed 8-well drilling program."

Western GeoPower is currently reviewing several proposals to fund the Unit 15 field and plant development. Details will be announced upon conclusion of the review.

The Geysers Geothermal Field, located 75 miles north of San Francisco, California, is the largest producer of geothermal electricity in the world. Commercial geothermal power has been generated continuously at The Geysers Field since 1960, the present generation level being about 900 megawatts of clean, baseload electricity. Western GeoPower's Unit 15 leasehold is situated in the southwestern region of The Geysers Field in Sonoma County and much of the leasehold lies within the presently known boundary of The Geysers Field. A commercial power plant of 62 megawatt (gross) capacity, known as PG&E Unit 15, operated at the leasehold during 1979-1989. To view the press release, please visit <http://www.geopower.ca/news%202007/13feb2007.htm>.

### **US Renewables Group and Carlyle/Riverstone to Provide Growth Capital to ThermaSource, a Geothermal Engineering and Consulting Firm**

Santa Rosa, CA (PRWeb) February 13, 2007 -- US Renewables Group, LLC ("USRG"), Riverstone Holdings LLC ("Riverstone") and The Carlyle Group announced today that they will provide growth capital to ThermaSource, a Santa Rosa, California-based provider of drilling, engineering and consulting services to the geothermal energy sector. Funds will come from USRG and Carlyle/Riverstone Renewable Energy Infrastructure Fund ("CRREIF") and be used to acquire new and reconditioned drilling rigs. US Renewables Group and Carlyle/Riverstone are making their investment through their affiliate GRR Holdco, LP, an owner of geothermal drilling rigs. Financial details were not disclosed.

"We are enthusiastic about the opportunity to partner with two proponents of geothermal energy, USRG and Riverstone," said Lou Capuano, Chief Executive Officer of ThermaSource. "With their support, ThermaSource will have the resources required to meet the critical needs of an expanding market for geothermal drilling and consulting."

"The opportunity to partner with ThermaSource was one of the attractions in acquiring and restarting the 55 megawatt Bottle Rock geothermal power project in the Geysers," said Tom King, Managing Director of USRG Management Company, LLC. "ThermaSource has been the premier drilling services company serving the geothermal sector. Their experience and expertise will help accelerate the expansion of geothermal energy."

"We are excited to back Lou and his ThermaSource team," said Stephen Schaefer, Managing Director of Riverstone. "We expect great opportunities in the next several years in the geothermal industry and believe that ThermaSource will be at the center of much of that growth." *For more information on Riverstone Holdings LLC and The Carlyle Group, visit [www.riverstonellc.com](http://www.riverstonellc.com) and [www.carlyle.com](http://www.carlyle.com).*

## **Climate Change News**

### **Bingaman on G8 Climate Forum Consensus**

A major two-day meeting in D.C. -- the Legislators Forum on Climate Change -- ended after producing a statement endorsed by Forum participants. The forum was part of the G8+5 Climate Change Legislators Dialogue in which more than 80 legislators and government officials from the 20 largest energy consuming countries participated. Senate Energy Committee Chairman Jeff Bingaman, an official advisor to GLOBE and the first U.S. legislator to address the international gathering, said, "The halls of Congress are the appropriate place for a dialogue like this. For too long, the United States has not been meaningfully engaged in finding solutions to global warming. Now that the debate over the science of climate change is over, and now that we better understand the economic consequences of inaction, this new Congress will lead the way toward finding solutions. I urge the Administration and the G8+5 leaders meeting in Germany this June to read the Consensus Statement that this Forum has produced and to work in earnest to reduce global greenhouse gas emissions." *Those interested in reading the statement or in obtaining further information can contact Kristyn Schrader (202/458-2736, [kschrader@worldbank.org](mailto:kschrader@worldbank.org)).*

### **Sonar Imaging May Reveal Meltwater Channels Beneath the Antarctic Ice Sheet**

A team of scientists have recently been conducting research along the Antarctic coast. During a recent project to map the sea floor using sonar imaging, the scientists believe they have discovered meltwater channels beneath the Antarctic ice sheet. This data, along with similar data from satellite imaging, raises alarm among scientists because these channels are believed to be a crucial element contributing to the destruction of glacial sheets. Essentially, the meltwater channels act as lubrication to gradually move the massive ice sheets sitting atop bedrock into the ocean.

Rob Larter, a marine geophysicist with the British Antarctic Survey at the University of Cambridge in the United Kingdom, explains, "What we have found is one piece of the machinery that operates in large ice sheets, which puts us one step nearer being able to reliably model how they behave." While one of the most fearsome consequences of climate change is significant rises in sea level due to glacial melting, Larter says the implications for predicting sea level changes will take some time to sort out. The team aboard the Ross is the first to produce "hands on" evidence of these meltwater channels.

*For more information, please visit*

*[http://www.bas.ac.uk/Living\\_and\\_Working/Transport/Ships/RRS\\_James\\_Clark\\_Ross.html](http://www.bas.ac.uk/Living_and_Working/Transport/Ships/RRS_James_Clark_Ross.html).*

### **Lawmakers Say U.S. Ready to Tackle Global Warming**

The United States is finally ready to join with other nations to reduce greenhouse-gas emissions and limit climate change, Democratic and Republican politicians told legislators from around the world at a recent Capitol Hill conference. "There has been a very substantial shifting in political grounds," said Senate Energy Committee Chairman Jeff Bingaman, D-N.M., in remarks to a global forum on climate change that includes lawmakers and business executives the world's 20 largest energy-consuming nations. Bingaman and other lawmakers expressed confidence that Congress would be able to work toward legislation that would require caps in emissions of carbon dioxide gas. But President Bush has opposed mandatory caps and Congress remains narrowly divided, which will make the task difficult, the legislators warned.

Sens. John McCain, R-Ariz., and Joe Lieberman, I-Conn., who authored legislation in 2003 to establish a cap-and-trade carbon dioxide emissions trading system, told the forum that work needs to be done to bring China and India on board for any global pact designed to limit emissions beyond the 2012 expiration of the Kyoto climate-change agreement. Meanwhile, the onus will be on lawmakers to craft legislation with broad enough appeal to pass muster in the narrowly divided Senate, U.S. politicians told the conference. "We have reached a scientific critical mass, the question now is how do we reach a political critical mass," said Sen. Olympia Snowe, R-Me. *To view the complete article, please visit* <http://biz.yahoo.com/cbsm/070214/f6f3b4d76d10403f9e15bb5aa2c0c17f.html?.v=1>.

## **Chicago Climate Futures Exchange to Launch Futures market on USEPA NOx Emission Allowances**

Chicago Climate Futures Exchange announced recently that it will offer standardized and cleared futures contracts on U.S. Environmental Protection Agency-issued Nitrogen Oxides SIP Call emission allowances starting February 23, 2007. CCX currently offers a cash market for over 200 entities involved in its Carbon Financial Instrument™ market and CCFE offers standardized and cleared futures contracts on USEPA SO2 emission allowances. Commenting on the new product Dr. Richard L. Sandor, Chairman and CEO of CCX said "With the launch of futures contracts on USEPA NOx emission allowances, CCFE provides a common gateway for participants to hedge positions in both pollutants mandated by the Acid Rain program. This additional product offering further demonstrates CCFE as the only transparent marketplace focused on new emerging environmental markets." Any utility, corporation or proprietary trader can trade NFI-OS futures by opening an account with a Futures Commission Merchant (FCM). Traders must enter into a relationship with a CCFE clearing member in order to establish a trading account and make provisions for delivery. Direct trading screen access may be obtained via CCFE clearing members. *Contract specifications for the CCFE-NFI are available on the CCFE webpage at* [http://www.chicagoclimateexchange.com/about\\_ccfe/products/nfi.html](http://www.chicagoclimateexchange.com/about_ccfe/products/nfi.html).

## **Committee Vows Action on Climate Change**

The U.S. House Committee on Science and Technology recently held the first Congressional conversation with climate scientists who authored the Intergovernmental Panel on Climate Change (IPCC) assessment report. "This is the first opportunity Congress has had to examine the findings of this important report," said Committee Chairman Bart Gordon (D-TN).

"The scientific experts have provided us with a diagnosis of the problem and a prognosis for our planet's health. They've done their job and we know the prognosis is ominous. Now, it is time for us – the policymakers – to do our jobs," continued Chairman Gordon.

Speaker of the House Nancy Pelosi signaled Congress' intent to act during her remarks before the Committee: "We hold our children's future in our hands – not our grandchildren, or great-grandchildren, but our own children. As the most adaptable creatures on the planet, it is time for us to adapt."

"The IPCC report further solidifies the scientific opinion about climate change – the planet is getting warmer and human activity is responsible for this change. With the scientific questions long settled, it is incumbent on the President to demonstrate leadership and work with Congress to address what policy changes our nation will make in response. Waiting will only increase our vulnerability to increased droughts and floods, heat waves, and rising sea levels," added Space and Aeronautics Subcommittee Chairman Mark Udall (D-CO). *To view the press release, please visit* <http://science.house.gov/press/PRArticle.aspx?NewsID=1275>.

## **Sen. Kerry and Rep. Inslee Join Conservation Groups in Global**

Senator John Kerry (D-MA) and Representative Jay Inslee (D-WA) joined conservation groups, filing an amicus brief in support of a lawsuit against the Bush administration for its failure to issue a legally required

National Assessment of climate change impacts on the United States that is now over two years overdue. The members of Congress filed the amicus brief today in Center for Biological Diversity, Friends of the Earth, and Greenpeace, Inc. v. Brennan, et al. (Case No. 06-CV-7062 (SBA) (N.D. Cal.)), a lawsuit calling on the administration to comply with the Global Change Research Act of 1990. The court filing comes a day after the Senate Commerce Committee heard testimony regarding the suppression of climate science by the administration. The National Assessment is intended to be the preeminent summary for decision-makers of the best available scientific information relating to the impacts of global warming on the United States. The last National Assessment was issued in late 2000 and by law must be updated every four years.

In their brief, the members of Congress argue that "Defendants' failure to act in accordance with the express congressional direction in the GCRA... has profound implications for the nation's ability to begin seriously addressing today's greatest environmental challenge – global warming."

A hearing on plaintiffs' motion for summary judgment is scheduled for April 17, 2007 in federal district court in Oakland, California. Plaintiffs are seeking a court order requiring the administration to complete the overdue National Assessment. Plaintiffs' motion is accompanied by the supporting declaration of Michael MacCracken, Ph.D, former director of the U.S. Global Climate Change Research Program and one of the authors of the 2000 National Assessment. *To view the press release, please visit <http://www.biologicaldiversity.org/swcbd/press/national-assessment-02-08-2007.html>*

### **Bodman Praises IPCC Report, Opposes Emissions Caps**

On February 5, US Energy Secretary Sam Bodman said of the Summary for Policymakers of Working Group One of the IPCC Fourth Assessment Report that, "We're very pleased with it. We're embracing it. We agree with it." Bodman told a news conference, "Human activity is contributing to changes in our Earth's climate and that issue is no longer up for debate." At the same time, Bodman reiterated the administration's opposition to mandatory caps on the emission of carbon dioxide. Rep. Edward Markey (D-MA), a member of a committee that deals with energy, commerce and natural resources, took issue with the Secretary Bodman's remarks by making a connection with Friday's Groundhog Day celebration. "It sounds like the Bush administration, having seen the very real shadow of scientific evidence of global warming, has chosen to go back into its hole of denial by saying that it will not support measures to reduce global warming and its disastrous effects on our economy and environment," Markey said in a statement. *For more information, please visit <http://www.biologicaldiversity.org/swcbd/press/national-assessment-02-08-2007.html>.*

### **US Congress Urged to Act Fast on Climate Change**

US legislators should quickly tackle climate change in an effort to push other major polluters to cut greenhouse gas emissions, former World Bank chief economist Sir Nicholas Stern said recently. Stern, who authored an influential report on climate change last year, pressed Congress to consider adopting new regulations, funding new technologies and establishing a system of trading carbon dioxide emission credits to try to limit gases that spur global warming. "Leadership in the world's largest markets sets the pace elsewhere," he told the Senate Energy and Natural Resources Committee. "Now is the time to act, urgently, strongly and internationally." *To read the full article, please visit <http://www.planetark.com/dailynewsstory.cfm/newsid/40323/story.htm>.*

### **New Study: Carbon Taxes Better Response to Climate Change than Cap-and-Trade**

A new research study, authored by national economist and former Undersecretary of Commerce for Economic Affairs Dr. Robert Shapiro and sponsored by the American Consumer Institute, finds that carbon taxes would be a better response to the risks of global warming than emissions caps and tradable permits (commonly referred to as cap and- trade). Examining the potential effectiveness, efficiency and administrative challenges of the two strategies for addressing climate change, Dr. Shapiro's study finds

that carbon taxes are a more effective way to lower emissions than a cap-and-trade program, because they force businesses and industries to choose between 1) reducing carbon consumption and increasing energy efficiency; or 2) paying the higher energy costs – and that choice provides the right incentives for countries and companies to reduce their CO2 emissions. *To view the paper, please visit <http://www.theamericanconsumer.org/research.htm>.*

## **State News**

### **Colorado Study Finds More Geothermal Power**

Colorado has more geothermal resources than previously thought and can eventually use them as an alternative for fueling power plants, a recent state study found, Colorado officials said. Among U.S. states, Colorado ranks fourth with nine potential sites for geothermal power development, more than previous estimates, said Matt Sares, deputy director for the Colorado Geological Survey (CGS). The three states with more current or potential geothermal energy sites are also in the U.S. West -- California, Nevada and Utah, Sares said. Sares said it is difficult to say when geothermal power production may start, though it could be within a decade, depending on how soon companies decide the development will be fruitful, he said. Colorado will require 10 percent of electricity delivered in the state to come from renewable sources by 2015, and the state legislature is considering a bill to raise that to 20 percent by 2020.

*For more information, please visit*

*[http://today.reuters.com/news/articleinvesting.aspx?type=bondsNews&storyID=2007-02-09T020131Z\\_01\\_N08219510\\_RTRIDST\\_0\\_COLORADO-GEOTHERMAL-UPDATE-1.XML](http://today.reuters.com/news/articleinvesting.aspx?type=bondsNews&storyID=2007-02-09T020131Z_01_N08219510_RTRIDST_0_COLORADO-GEOTHERMAL-UPDATE-1.XML).*

### **Montana: Governor Schweitzer Proposes Geothermal Power Plant in Butte**

Governor Brian Schweitzer is interested in how geothermal energy could create jobs in both the construction and operation of a new power plant in Butte. Governor Schweitzer visited the Basin Creek power plant which has been in operation for 6 months. He praised its clean environmental record, noting that electricity from this low-polluting plant can be sold under California's stringent anti-pollution guidelines. But the governor thinks Butte could produce even cleaner electricity. Schweitzer says it's too early in the process to know if such a plant could be built in Butte, but he says it's worth looking into. The mining city is also the first stop on Governor Schweitzer's campaign trail to seek his re-election in 2008.

*For more information, please visit <http://www.montanasnewsstation.com/Global/story.asp?S=6077527>.*

### **Nevada Utilities to Increase Geothermal Energy Usage**

State regulators have approved contracts for 73 megawatts of new geothermal power from three rural northern Nevada generating sites, a recent article reported. The three contracts include Nevada Geothermal Power Company's 25-megawatt Faulkner 1 power plant in Humboldt County, Ormat Nevada's 24-megawatt Buffalo Valley project in Lander County and its 24-megawatt Carson Lake project in Churchill County. Full production is slated to begin in 2010. The contracts are for the purchase of renewable energy credits by Las Vegas-based Nevada Power Co. to help meet state standards requiring, by 2015, that 20 percent of a utility's energy portfolio be renewable-based. Nevada Power's sister subsidiary in Reno, Sierra Pacific Power Co., will receive the energy from the three plants until late 2011 when a transmission line connecting northern and southern Nevada is expected to be completed. *For more information, please visit [http://www.mercurynews.com/mld/mercurynews/news/local/states/california/northern\\_california/16664630.htm](http://www.mercurynews.com/mld/mercurynews/news/local/states/california/northern_california/16664630.htm).*

### **Texas: Mayor Will Wynn Announces Steps for Austin to Fight Climate Change**

On February 7, Mayor Will Wynn announced a major plan that would make the city of Austin the nation's leader in the fight against greenhouse gases. Specifically, he stressed the importance of individual efforts to fight global warming at a local level. His plan, which sets ambitious goals across city sectors, will attempt to:

- Power 100 percent of city facilities with renewable energy by 2012.
- Make the entire city fleet carbon neutral by 2020.
- Require Austin Energy to meet 30 percent of all energy needs through renewable resources by 2020 and to achieve carbon neutrality on any new generation units.
- Make all new single-family homes zero net-energy capable by 2015.
- Increase energy efficiency in all other new construction by 75 percent by 2015.
- Require existing homes to be upgraded to be more energy efficient before they can be sold.
- Develop a locally based "carbon footprint calculator" to let Austinites figure out how much energy they are using daily. Calculator
- Promote carbon neutrality among visitors by allowing them to buy offset credits for the energy they used during their visit to Austin

The plan will go before the city council next week for approval. *For more information, please visit <http://www.news8austin.com/content/headlines/?ArID=178884&SecID=2>.*

### **Utah: Geothermal Alternate to Logan's Coal Energy**

A recent article discusses the possibility of geothermal replacing coal in Logan as an electricity source to serve an ever-growing population base. "Geothermal power, especially in this region, is definitely an alternative," said Gary Anderson, who sits on the governing board of Idatherm, a southern Idaho-based renewable energy company. The company is in preliminary talks with several investors on a project that could yield up to 100 megawatts of power from a field in Box Elder County, west of the Wellsville Mountains. About plants, Anderson said, "It's not like it's going to go away," he said. "Once you have the plant in operation, it's 98 percent efficient." According to Laura Nelson, Gov. Jon Huntsman Jr.'s energy adviser, the Rocky Mountain region's power demands will grow by 19 percent in 2015, but plans call for just a 6 percent increase in new generation facilities. Logan is seeing a similar growth pattern. Today, the city's total load is 90 megawatts but by 2012, it should hover around 120. *For more information, please visit <http://hjnews.townnews.com/articles/2007/02/05/news/news04.txt>.*

### **International News**

#### **Australia: "Australian of the Year" Says Geothermal Should Replace Coal**

The Australian of the Year, Tim Flannery, has made headlines with his calls to end coal mining and exports, but there's been less attention on the technology that he says could replace it – geothermal – a recent article reports. According to Flannery, "There are hot rocks in South Australia that potentially have enough embedded energy in them to run the Australian economy for the best part of a century." Brad Page, The Energy Supply Association of Australia, which represents the nation's electricity generators, foresees geothermal in 2030 potentially providing up to seven or eight per cent of our total electricity needs. Geothermal is one of the few technologies that offers us 24-hour seven days a week electricity with no emissions. Origin Energy's government affairs manager, Tony Wood, says they have now started investing in geothermal energy options, mainly because of its lack of carbon emissions. *To view the complete interview with various Australian officials, visit <http://www.abc.net.au/pm/content/2007/s1844491.htm>.*

#### **Australia: Country Looks to Carbon Trading Scheme as Possible Climate Solution**

A task force set up by Australian Prime Minister John Howard to investigate carbon emissions trading released its issue paper on Wednesday, February 7. The paper states, to the dismay of many environmentalists, "It is unlikely that a comprehensive international agreement to support a single trading scheme will emerge in the near future. A key issue to consider is whether the introduction of a domestic emissions trading scheme is consistent with such a goal." As a result, over the next four months Australia will consider a national carbon-trading system to combat global warming. While the task force promotes a carbon trading system over a carbon tax due to flexibility, they want to make sure their actions will not

compromise Australia's competitive advantages in the possession of large reserves of fossil fuels and uranium. Like the United States, Australia has also refused to ratify the Kyoto Protocol to reduce greenhouse emissions. *For more information, please visit <http://www.pmc.gov.au/emissionstrading/>.*

### **Indonesia: Sumitomo Corp. Secures Geothermal Order**

Sumitomo Corp. (TSE:8053) has received a US\$116.2 million order for geothermal power equipment made by Fuji Electric Systems Co. for a private operator in Indonesia. The equipment will be used in the expansion of the Wayang Windu power plant operated by Star Energy Holdings Ltd. in West Java. Its output of 117,000kw will be the largest for its kind in the world. Local construction firm PT ReKayasa Industry will handle installation of steam collection and delivery systems. *For more information, please visit <http://www.antara.co.id/en/seenws/?id=27166>.*

### **Papua New Guinea: Lihir Geothermal will Save Developer US\$40 Million This Year Alone**

LIHIR Gold has begun commissioning its 20MW geothermal power plant at the Lihir Gold mine, bringing overall geothermal power capacity to 56MW. Managing director Arthur Hood said the US\$40 million (K121 million) facility would save the company approximately US\$40 million this year by reducing consumption of heavy fuel oil for power generation. It will also generate around US\$3 million (K9.4 million) a year from the sale of carbon credits as Lihir's geothermal plant has been registered under the clean development mechanism of the Kyoto Protocol. Mr. Hood said the geothermal power would supply about 75% of the operations electrical needs of about 75MW. *For more information, please visit <http://www.thenational.com.pg/020907/business2.htm>.*

### **Peru: Japan Bank and Peru Energy Ministry Sign MOU to Evaluate Peru's Geothermal Potential**

The Japan Bank for International Cooperation (JBIC) and Peru's energy and mines ministry have signed a memorandum of understanding (MOU) to evaluate the latter country's geothermal potential, the ministry said in a statement. The ministry is determining the required investment for prefeasibility studies that could begin in 2-3 months and wrap up by year-end, the ministry's electricity general director Jorge Aguinaga told BNAmericas. Following the studies, JBIC could provide a loan to carry out the feasibility study of a pilot project. The private sector will carry out the feasibility study and well drilling to confirm geothermal potential, Aguinaga said. The pilot project likely would be carried out in the volcanic Moquegua and Tacna departments in southern Peru. The ministry will form a technical team to develop the pilot project and a national geothermal plan. *For more information, please visit <http://www.bnamericas.com/story.jsp?idioma=1&sector=10&noticia=381633>.*

### **Philippines: Plant Developer Ensures Governor that Host Areas will Receive Benefits; Enters Carbon Credit Deal**

A recent article discusses a quest by Philippine Northern Negros Gov. Joseph Marañon to find out why the recently commissioned 49 megawatt Northern Negros Geothermal Power Plant in Mailum, Bago, is selling its power to Panay instead of Negros Occidental. He also said that the rates should be lowered so that the plant will more significantly benefit the benefit of the people. The Philippine National Oil Co. Energy Development Corp. assured that, although its Northern Negros Geothermal Power Plant will supply the power needs of Panay, royalties and other benefits will continue to be given to its host areas.

In related news, PNOC-EDC signed an Emission Reductions Purchase Agreement (ERPA) with the World Bank for its preference to promote "green energy" projects. The signing of the carbon emissions trading deal was spearheaded by PNOC-EDC president Paul A. Aquino and World Bank Philippines Country Director Joachim von Amsberg. With the ERPA, company officials noted that all certified emission

reductions generated by the project will be purchased by the government of Netherlands via its Clean Development Mechanism Facility (NCDMF) with the World Bank acting as its trustee.

For more information, please visit <http://www.visayandailystar.com/2007/February/07/topstory2.htm> and <http://www.mb.com.ph:80/issues/2007/02/17/BSNS2007021787323.html>.

## **Notices and RFPs**

### **Nevada Geothermal Power Inc. Hiring: Senior Geologists**

NEVADA GEOTHERMAL POWER INC. (based in Vancouver) has a pipeline of challenging geothermal exploration and development projects in Nevada at varying stages; that requires a dedicated, proactive individual to ensure successful implementation of the work. Seeking senior geologists, self-starters with a minimum of ten years of field experience, including drill program management, who can work well independently and as a part of a team. Nevada Geothermal offers exciting opportunities based in Vancouver and working in western North America. Salary is commensurate with experience. Fax resumes to: 604-688-5926 or e-mail resumes to: [careers@nevadageothermal.com](mailto:careers@nevadageothermal.com).

### **GHG Reduction and Pollution Prevention - Region 10 (Due March 9)**

The U.S. Environmental Protection Agency, Region 10, seeks proposals for the Regional Geographic Initiative (RGI). RGI supports projects that use integrated, collaborative, or community-based approaches to reduce greenhouse gas emissions or prevent pollution by promoting the availability of energy efficiency, renewable energy, or carbon sequestration. Project implementation must take place in Region 10 which includes AK, ID, OR and WA. \$400K expected to be available, up to 4 awards anticipated. Responses due 3/9/07. For more info, please visit <http://www.grants.gov/search/search.do?mode=VIEW&oppId=12229>. Refer to Sol# EPA-R10-RGI-2007. (Grants.gov 1/11/07)

### **Sustainable Development Technology Canada seeks Clean Energy Technologies (Due March 14)**

Sustainable Development Technology Canada (SDTC), a Government of Canada foundation that finances and supports the development and development of clean technologies is accepting Statements of Interest (SOI) for its eleventh round of funding. Projects will be considered for technology solutions designed to improve sustainability for all Canadian economic sectors including energy exploration and production, power generation, energy utilization, transportation, agriculture, forestry and waste management. SDTC actively seeks applications for technology innovations that deliver clean water, clean soil, clean air, and a reduction in greenhouse gas emissions. The deadline for proposals is March 14, 2007. For more information, please email [applications@sdtc.ca](mailto:applications@sdtc.ca) or call [www.sdtc.ca](http://www.sdtc.ca).

### **Sustainable Development Technology Canada seeks Clean Energy and Transportation technologies (Due March 15)**

Sustainable Development Technology Canada (SDTC), a Government of Canada foundation that finances and supports the development and development of clean technologies is accepting Statements of Interest (SOI) for its eleventh round of funding. Projects will be considered for technology solutions designed to improve sustainability for all Canadian economic sectors including energy exploration and production, power generation, energy utilization, transportation, agriculture, forestry and waste management. SDTC actively seeks applications for technology innovations that deliver clean water, clean soil, clean air, and a reduction in greenhouse gas emissions. The deadline for proposals is March 14, 2007. Please visit [www.sdtc.ca](http://www.sdtc.ca) for more information.

## **Update on PG&E Renewable RFO (Notice of Intent to Bid Due March 19)**

The CPUC is expected to vote on the proposed decision on February 15, 2007. PG&E will file an updated Solicitation Protocol on March 2, 2007. Pending this decision, the tentative schedule for the RFO is as follows:

### **2007 Renewables RFO Schedule (tentative)**

<b>Event</b>	<b>Date</b>
PG&E Issues RFO	March 12
Notice of Intent to Bid Due	March 19
Bidders Conference	Week of March 19th
Deadline for Submission of Bids	May 18
PG&E selects Shortlist	June 29
Execution of final Agreements	Q3-Q4 2007

### **The key differences between the 2007 RPS Solicitation and the 2006 Solicitation are as follows:**

- Updated time of delivery (TOD) factors will be applied.
- The power purchase agreements (PPAs) will include an expanded Dispatch Down Period to ensure inclusion of all situations where curtailment is necessary due to, including but not limited to: California Independent System Operator (CAISO) orders, CAISO System Emergencies, anticipated System Emergencies, CAISO-defined over-generation, forecasts of over-generation, and orders by Participating Transmission Owners.
- Collateral requirements will be reduced during project development.
- Participants whose projects have delivery points that are outside of the CAISO-controlled grid are requested to provide two separate prices: one for delivery onto the CAISO-controlled grid and one for delivery outside the CAISO-controlled grid.
- Terms will be conformed to changes in the RPS statute pursuant to Senate Bill (SB) 107, which became effective on January 1, 2007.
- The two forms of As-Available PPA (one with EIRP and one without) will be combined into one.
- Redundancy in evaluation protocols will be eliminated.

*For continued updated information regarding PG&E's 2007 Renewables RFO please save the following link:*

[http://www.pge.com/suppliers\\_purchasing/wholesale\\_electric\\_supplier\\_solicitation/renewables2007.html](http://www.pge.com/suppliers_purchasing/wholesale_electric_supplier_solicitation/renewables2007.html)

## **Rural Business Opportunity Grant (Due March 30)**

The U.S. Department of Agriculture requests proposals for Rural Business Opportunity Grants. This program promotes sustainable economic development in rural communities with exceptional needs through support of economic planning for rural communities, technical assistance for rural businesses, and training for rural entrepreneurs or economic development officials. \$1.5 million expected to be available, average grant \$50K. Responses due 3/30/07. *For more info, go to:*

<http://www.rurdev.usda.gov/rbs/busp/rbog.htm>. Refer to Sol# RBS-RBOG2007. (Grants.gov 12/18/06)

## **LADWP Calls for Renewable Energy Developers to Bid (Proposals Due April 10)**

The Los Angeles Department of Water and Power (LADWP) is seeking proposals for 2,200 gigawatt-hours (GWh) of energy per year from renewable energy resources. The RFP is aimed at boosting the City of Los Angeles' renewable energy sales to 20% of the energy supplied to customers by 2010. The additional 2,200 GWh of renewable energy would increase L.A.'s total renewables to 15% from its current 6%. Proposals

are due April 10 at 2 p.m. A pre-proposal conference for prospective bidders is scheduled for Tuesday, Feb. 13 at 9 a.m. at LADWP's John Ferraro Building headquarters, A-Level Auditorium, 111 N. Hope St., Los Angeles. *For further information:* <http://www.ladwp.com/ladwp/cms/ladwp001370.jsp>.

## **Upcoming Events**

### **GEA/EESI Geothermal Briefing, March 1, Washington DC**

On March 1 from 9:30 to 11am, GEA and the Earth and Environmental Study Institute (EESI) will host a briefing in 2203 Rayburn House Office Building on new developments in and potential for geothermal energy. Invited and/or confirmed speakers include Bernie Karl of Chena Hot Springs Resort, Roy Mink of U.S. Geothermal Power, Karl Gawell of GEA, and Jeff Tester of MIT. *For more information, please email Alyssa at* [research@geo-energy.org](mailto:research@geo-energy.org).

### **2007 National Electricity Delivery Forum - Making Progress to Modernize the Infrastructure, February 21-22, Washington DC**

Don't miss the 2007 National Electricity Delivery Forum! John Jimison, USCHPA General Counsel, will be speaking at a session entitled, "Distributed Generation and Combined Heat and Power - How Do These Technologies Help to Modernize the Electricity Delivery System Infrastructure?" *For more information and to register, please visit* <http://www.electricitydeliveryforum.org/>.

### **Utility Rate Case Issues & Strategies, Feb 22 - 23, Las Vegas, NV**

Law Seminars International present regulators, attorneys and consultants who will update participants on strategies for bringing about win-win results for shareholders and customers. The Hon. Marc Spitzer, FERC Commissioner, will review recent FERC initiatives and decisions with an impact on state rate cases, and the Hon. Donald L. Soderberg, Nevada PUC Commissioner will address the agency perspective on working with Interveners and settling cases. Learn about: Filing strategy tips for utilities ~ Rate case issues arising from policies favoring cleaner energy supplies ~ Rate case treatment of fuel costs ~ Regulatory treatment of new technologies ~ State authority, policy priorities, and regulatory. *For more information, please visit* [http://www.lawseminars.com/section\\_details/07RATENV.htm#%20](http://www.lawseminars.com/section_details/07RATENV.htm#%20).

### **Cleantech Forum™ XII, February 19-22, San Francisco CA**

Join 600 of the leading venture capitalists, investment bankers, pensions, endowments, family offices and corporate executives for senior level networking and an exceptional thought-leadership program. The Cleantech Forums™ are the world's premier cleantech investment platforms, providing unparalleled access to emerging innovation, analysis, networking, deal flow and thought-leadership for the rapidly emerging cleantech industry. In North America, over \$2.9 billion was invested in cleantech by venture capitalists representing over an 80% increase over 2005 which followed a 25% increase over 2004 according to Cleantech Venture Network® researchers. The influx capital from private equity, family offices, endowments, pension funds, hedge funds, angel investors as well as venture capitalists requires a solid understanding of trends and emerging opportunities provided by the Cleantech Forums™ for four years. *For more information, please visit* <http://www.RenewableEnergyAccess.com/partner/Cleantech/>.

### **NREL to Host “Bonus” Seminar on Geothermal Energy, March 1, Washington DC**

According to recent reports, NREL will host a "bonus" seminar on March 1, discussing the future of geothermal energy. Jeff Tester, of the Massachusetts Institute of Technology (MIT), will present an analysis on the impact of enhanced geothermal systems (EGS) in the 21st century. *Please visit the Energy*

*Analysis Web site toward the end of the month for more details at <http://www.nrel.gov/analysis/seminar/>.*

### **Financing Renewable Energy Projects, Mar 1 - 2, Berlin, Germany**

The European renewable energy markets are in growth mode, affording investors and developers great opportunities. Political initiatives are fueling the development of the renewable energy industry, and investors are now looking to capitalize on the growing demand for green power markets. The event will take place at the Kempinski Hotel Bristol. *More information is available at <http://www.c5-online.com/renewableenergy/pr10>.*

### **Power-Gen Renewables Conference, March 6 – 8, Las Vegas, Nevada**

With the passing of the Energy Bill coupled with critical initiatives to reduce our dependence on oil imports, one thing is clear - the future of renewable energy is NOW. In its 4th year of partnership, PennWell Corp. and the American Council on Renewable Energy (ACORE) present the industry's premier event covering the most important trends and issues impact the industry's progress. Bringing the wind, solar, biomass and fuels, hydro and geothermal sectors together for three days of information exchange and fast-track networking, POWER-GEN Renewable Energy & Fuels attracts the biggest names in renewables to discuss technical, strategic, regulatory, structural and economic issues. *For more information, please visit <http://pgre07.events.pennnet.com/fl/index.cfm>.*

### **GeoExchange Conference and Trade Show, March 7-9, Burnaby, British Columbia, Canada**

GeoExchangeBC is pleased to announce confirmation of the 2nd Biennial International GeoExchange Conference and Trade Show. Scheduled for March 7-9, 2007 at the Hilton Vancouver Metrotown in Burnaby, British Columbia, this event will feature regional and international speakers, an expanded trade show, informative site tours and a proposed geoexchange system designer training course coinciding with the conference. *Call for papers now being accepted. Check back for regular updates: <http://www.geoexchangebc.ca/announcement.aspx>*

### **Utah Geothermal Working Group Meeting, March 14-15, Salt Lake City, UT**

The event will include topics such as Geothermal Development Activity in Utah, New Federal Rules for Geothermal Leasing and Permitting, Utah State Legislative Update – New incentives for renewable energy development, Review of Activities of the Geothermal Utility Working Group, Renaissance Geothermal Project, Blundell Geothermal Plant Expansion, and Raft River Geothermal Project, among others. *For more information and to RSVP, contact Jason Berry at Utah Department of Natural Resources, State Energy Program – [jasonberry@utah.gov](mailto:jasonberry@utah.gov), (801) 538-5413, or Robert Blackett, Utah Geological Survey – [robertblackett@utah.gov](mailto:robertblackett@utah.gov), (435) 865-9035.*

### **Energy Markets and Regulation, Mar 15- 16, Washington, DC**

Law Seminars International presents a conference on energy markets and regulation that provides basic and updated information for professionals. *For more information, please visit <http://www.lsinews.com/07endccentral.htm>.*

### **California Energy Commission Request for Proposals (Due March 28)**

The purpose of this RFP is to support the Commission's PIER Program Energy Systems Integration area by developing Advanced Power Electronic Interface technologies to facilitate the expanded use and reduced

cost of distributed energy resources. Through this RFP, the Commission is implementing a collaborative initiative with the National Renewable Energy Laboratory to develop standardized, highly integrated, and modularized power electronics-based interconnection technologies that will allow DER systems to "plug and play" with the electric power system. Request for Proposals # 500-06-504 solicitation files are now online. Deadline to submit proposals is March 28, 2007, no later than 5 p.m. *For more information on funding solicitations go to: <http://www.repartners.org/grants.htm>.*

### **Wall Street Green Trading Summit VI , Apr 16 - 17, New York City**

Speakers from investment banking, hedge funds, venture capital, insurance, and the brokerage community will present on the trading opportunities in alternative energy, project finance, carbon market developments, REC trading and demand response programs at this annual event in New York. Attend either in person or via webcast. *For more information, please visit <http://www.hedgeconnection.com/wsgts>.*

### **Accelerating Development/Deployment of Asia Pacific Clean Technologies, Apr 17-18, Melbourne, Australia**

The AustralAsian Cleantech Forum in Melbourne is the premier international platform for knowledge exchange and commercial interaction for the full range of investors, companies and government involved in the Cleantech market in the Asia Pacific. The 3rd AustralAsian Cleantech Forum will provide unparalleled networking with key decision makers that are leading the growth of the Cleantech industry. *For more information, please visit <http://www.cleantechforum.com/index.php?page=Home>.*

### **RENEXPO Central & South East Europe, Apr 19 - 21, Budapest, Hungary**

The event will highlight present renewable energy technologies and products as well as the latest developments in energy efficient construction and renovation. The exhibition serves to provide a platform at which major players from the renewable energy and energy efficient construction and renovation sectors can convene, network, and exchange knowledge. Target countries include Hungary, Bulgaria, Austria, Slovakia, Romania, Ukraine, Croatia, and Slovenia to name a few. *For more information, please visit <http://www.renexpo-budapest.com>.*

### **RENEXPO India 2007, Apr 25 - 26, New Delhi**

Over 500 business leaders and CEOs, representing non-conventional energy sources will once again convene to explore possibilities for the transfer of technologies. The Associated Chambers of Commerce and Industry of India (ASSOCHAM), together with the Ministry of Non-Conventional Energy Sources and the Government of India, have invited delegates from India, Afghanistan, Bangladesh, Bhutan, Maldives, Nepal, Pakistan and Sri Lanka. The event, presented by REECO India, will be held at the Hotel Le Méridien. *For more information, please visit <http://www.renexpo-india.com/>.*

### **Geothermal Resource and Finance Workshop, May 10, San Francisco, CA**

GEA announces plans for a workshop bringing together professionals in the geothermal community to discuss the issues and strategies involved in identifying and developing geothermal resources in the United States and to discuss approaches and considerations for financing geothermal projects. The event is scheduled for May 10<sup>th</sup> at the Hyatt Regency (Embarcadero). *Those interested in being sponsors for the event or making presentations, please contact Karl Gawell at 202-454-5264 or email [karl@geo-energy.org](mailto:karl@geo-energy.org).*

## **SMU Geothermal Conference: “Geothermal Energy Utilization Associated with Oil & Gas Development,” June 12-13, 2007, Dallas Texas**

In the 1970's and 1980's Oil and Gas companies diversified into geothermal exploration because of the similarities in the industries. Most of these companies left geothermal when the price of oil dropped in the late 1980's or because of failed exploration projects. Today, the Oil and Gas Industry can use a known producing field and not have high exploration costs to expand their portfolio into geothermal. Plus they benefit from the additional years of experience by the Geothermal Industry. To facilitate this happening, the first ever conference titled Geothermal Energy Generation in Oil and Gas Settings was held on March 13-14, 2006 at Southern Methodist University, Dallas, Texas. *For more information about this event, please contact Maria Richards, SMU Geothermal Lab, [mrichard@smu.edu](mailto:mrichard@smu.edu), or 214-768-1975. You can also visit the website at <http://www.smu.edu/geothermal>.*

## **GEA Trade Show/GRC Annual Meeting, September 30-October 3, Reno, Nevada**

It's not too early to be planning for the next GEA Trade Show/GRC Annual Meeting. This coming year they will be held at John Ascuaga's Nugget Hotel & Casino in Reno, Nevada, September 30 - October 3, 2007. For more information about the GEA Trade Show contact Daniela Stratulat at 202-454-5263 or email [Daniela@geo-energy.org](mailto:Daniela@geo-energy.org). *For information about the GRC Annual Meeting contact GRC at 530-758-2360 or email [grclub@geothermal.org](mailto:grclub@geothermal.org).*



### ***GEA Update***

A newsletter for GEA Members written by Alyssa Kagel and Karl Gawell.

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