



## GEOTHERMAL ENERGY ASSOCIATION

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## **National News**

### **Economic Crisis and U.S. Lame Duck Administration Provide Challenging Backdrop for UN Climate Talks and Need to Help Emerging Nations**

The United Nations annual climate conference in Poznan, Poland is taking place over the first two weeks in December. The economic crisis and the U.S. lame duck administration’s delegation paint a difficult backdrop for the vital issues being discussed. But as Danish Prime Minister Anders Fogh Rasmussen said at the opening session, “I feel confident that the financial crisis will be overcome; Climate change will only grow stronger if we do not act.”

So far, the climate talks seem to reflect an amount of chaos ensuing in Europe over their climate laws. This may presage the difficulties the Obama administration may have trying to legislate a national climate cap and trade program in the U.S. during such difficult economic times. The European Union has pledged independently to cut its emissions to 20% below 1990 levels by 2020, and has pledged 30% as part of a global agreement. The EU is split over how to distribute fresh cuts in emissions; Italy and Eastern European nations oppose a plan to auction pollution permits, saying it will make energy too expensive, according to an article on [monstersandcritics.com](http://monstersandcritics.com). Obama aligns with many European leaders who point out that promoting environmental technology and measures such as auctioning of emissions rights could help pay for the costs of curbing global warming, the article said.

A key part of the Poland talks is an accord that would be up for approval in December 2009 in Denmark and would include emissions cuts to include emerging nations beginning in 2013. This would replace the Kyoto Protocol, which ends in 2012, whose rhetoric includes only developed nations. Dialogue on how rich nations can provide technology and financing to help poorer countries lower their emissions will be crucial for support from countries like China, India, and Brazil.

Governments will also review proposals submitted over 2008 on ideas for stronger climate change action, according to an article on [ens-newswire.com](http://ens-newswire.com).

According to that article, lead U.S. negotiator Ambassador Harlan Watson dodged reporters’ questions about whether the U.S. would commit to emissions targets or funding for developing nations. But the youth delegation present at the talks asked delegates from other nations to focus on the next administration’s

commitments rather than the outgoing administration. Twenty youth delegates representing every region of the country and youth organizations like the Energy Action Coalition and SustainUS are present at the meetings.

See <http://www.ens-newswire.com/ens/dec2008/2008-12-01-01.asp> and [http://www.monstersandcritics.com/science/news/article\\_1445904.php/UN\\_climate\\_talks\\_open\\_in\\_shadow\\_of\\_economic\\_crisis](http://www.monstersandcritics.com/science/news/article_1445904.php/UN_climate_talks_open_in_shadow_of_economic_crisis)

## **New Renewable Energy Leadership Announced for the 111th Congress**

Press Release—December 2, [House Renewable Energy and Energy Efficiency Caucus Announces New Leadership for the 111th Congress, Van Hollen to Succeed Udall as Democratic Co-Chair](#)

House Renewable Energy and Energy Efficiency Caucus Co-Chairs Rep. Mark Udall (D-CO) and Rep. Zach Wamp (R-TN) today announced that Rep. Chris Van Hollen (D-MD) will succeed Rep. Udall as Democratic Co-Chair of the bipartisan caucus. Udall is leaving the House for the Senate, after winning the Senate seat being vacated by Sen. Wayne Allard (R-CO). Rep. Gabrielle Giffords (D-AZ) will assume Van Hollen's former post as one of two Democratic Vice-Chairs of the caucus. The other Vice-Chairs of the Caucus are Reps. Vern Ehlers (R-MI), Ron Kind (D-WI) and Greg Walden (R-OR).

"Through the House Renewable Energy and Energy Efficiency Caucus, Zach and I have worked for years to increase Congress' knowledge of and interest in these technologies that are already contributing to our energy use across the country and will do much more in the future to help revive our economy and reduce our dependence on fossil fuels," said Udall. "I am very pleased Chris has accepted this new responsibility with the Caucus. I will look forward to continuing to work with Zach, Chris and the other Caucus Members from my new position in the Senate to promote renewable energy and energy efficiency issues across the country."

"The renewable energy and energy efficiency industry is the best opportunity for us to have a robust U.S. export economy again," said Wamp. "Domestically, we can diversify our resources with new supplies of energy through advanced technologies. With its long history, the Renewable Energy and Energy Efficiency Caucus provides the platform for us to educate, advocate and even legislate on clean energy technologies. Congressman Van Hollen will be a welcome addition to this bipartisan group at a time when energy will be an important part of the agenda in the 111th Congress."

"I am delighted to be joining Congressman Wamp as Co-Chair of the Renewable Energy and Energy Efficiency Caucus," said Van Hollen. "Whether you're talking about national security, economic renewal, international competitiveness or environmental stewardship, a strong majority of members on both sides of the aisle clearly understand that building America's clean energy future holds the key. I look forward to working with Zach and the rest of the bipartisan membership to make the Caucus a vital and vibrant nerve center for these issues in the 111th Congress."

The Renewable Energy and Energy Efficiency Caucus was founded in the House of Representatives on February 5, 1996, by Representatives Vernon Ehlers (R-MI), Scott Klug (R-WI), David Minge (D-MN), Bill Richardson (D-NM), Matt Salmon (R-AZ), Dan Schaefer (R-CO), and Karen Thurman (D-FL). Current Caucus membership includes 216 Members of Congress from 44 states, the District of Columbia and two U.S. territories.

## **Obama Names Jones as Security Advisor; Energy Transition Plan Outlines Comprehensive Package**

President-elect Barack Obama has named General James Jones as his national security adviser. Jones is a retired Marine general and is president and CEO of the Institute for 21st Century Energy, an affiliate of the U.S. Chamber of Commerce. He will make energy a top issue; the *Wall Street Journal* quoted him, "energy is a national security issue, and it is an international security issue of the highest order."

Jones worked on the Chamber of Commerce Energy plan, presented to Obama in November, which was a roadmap to make U.S. energy security a key component of increasing national security.

The Transition Plan for Securing America's Energy Future outlines a section on increasing renewable sources of electricity:

“Any effort to meet growing demand and address environmental concerns with continued economic growth requires zero and near-zero emissions power generation to be developed and deployed,” it states. “This is true not only in our country, but around the world. We require a predictable and durable fiscal regime to stimulate new investments in solar, wind, energy from- waste, and other renewable technologies. We must also invest in developing the required technologies needed to expand and transport new sources of commercially viable renewable energy.”

Specific recommendations are as follows:

Administration recommendation:

- As directed by EPLA2005, the Minerals Management Service should issue regulations for the development of renewable energy projects on the OCS and should continue to process permits for these projects in the interim. (Within 100 days to 6 months)

U.S. Congress recommendations:

- Congress should amend the renewable energy tax credits to include other effective technologies, and to fully capture facilities that require long lead times for construction by modifying the placed in service date provision for geothermal, energy-from-waste, and all other baseload energy sources and provide a credit for facilities that are not yet placed in service by the expiration date, if a financial commitment has already been made. (Within 6 months to 1 year)
- Congress should increase annual funding for wind, solar, geothermal, and ocean programs at DOE from the current level of about \$250 million to \$450 million. (This is part of the previous recommendation to double federal R&D spending within five years.) (Achieved through annual Congressional appropriations process over a five year ramp-up.)
- Congress should extend for eight years the renewable energy tax credits and establish a phase-out period of four years. (Within 6 months to 1 year)
- Congress should extend the existing Clean Renewable Energy Bond program to enable public power systems and electric cooperatives to seek alternative financing mechanisms for clean energy projects that are not eligible for production tax credits. (Addressed in the Emergency Economic Stabilization Act of 2008.)

The Wall Street Journal sums up the Transition Plan: “The Institute’s business-friendly approach advocates more of everything—more domestic oil and gas, more nuclear power, more coal, more renewable energy, and above all, for the federal government to cut through regulatory thickets that have hamstrung U.S. energy modernization in recent years. The key message from the Institute’s transition plan is that U.S. economic and security interests have suffered due to the lack of a comprehensive national energy plan that addresses how we can get more energy and how we can use less.”

See <http://blogs.wsj.com/environmentalcapital/2008/12/01/team-obama-new-national-security-adviser-jim-jones-puts-energy-first/> and [http://news.cnet.com/8301-11128\\_3-10110454-54.html](http://news.cnet.com/8301-11128_3-10110454-54.html). The Transition Plan is available at [http://www.energyxxi.org/reports/Transition\\_Plan.pdf](http://www.energyxxi.org/reports/Transition_Plan.pdf).

## **Company News**

### **Raser Technologies: CEO to Present at Upcoming Conferences**

Press Release—November 26, [Raser Technologies, Inc. to Present at NYSE Euronext and WJB Capital Boston Growth Conference](#)

Raser Technologies, Inc. (NYSE Arca: RZ) today announced that Brent M. Cook, the Company's CEO, will present at the NYSE Euronext and WJB Capital Group Boston Growth conference to be held at The Hilton Boston Financial District on Thursday, December 4th at 1:55 PM EST.

The presentations will highlight the Company's progress in executing its "Well to Wheels" strategy, including a discussion about Raser's first geothermal power plant in Utah. The presentation will be webcast and can be accessed at: [http://www.corporate-ir.net/ireye/conflobby.zhtml?ticker=RZ&item\\_id=1992908](http://www.corporate-ir.net/ireye/conflobby.zhtml?ticker=RZ&item_id=1992908).

Management will also be available for one-on-one meetings throughout the day at the Hilton. Interested parties can schedule meetings through WJB Capital by visiting [www.wjbcapital.com](http://www.wjbcapital.com) online.

See <http://www.marketwatch.com/news/story/Raser-Technologies-Inc-Present-NYSE/story.aspx?guid={80FF490F-BE96-45D5-B8C0-D01FD20B4ECA}>.

### **Sierra Geothermal Power: Third Quarter Results Released**

Press Release Highlights—November 27, [Sierra Geothermal Power Reports Q3 Financials and Increases Ownership in Cayley Geothermal to 83 Percent](#)

#### Financial Overview

For the three and nine months ended September 30, 2008, SGP reported a net loss of \$571,949 or \$0.01 per share and \$2,244,528 or \$0.03 per share, compared to a net loss of \$351,167 or \$0.01 per share and \$1,385,125 or \$0.03 per share for the three and nine months ended October 31, 2007. The increase in the net loss during the three and nine months ended September 30, 2008, compared to the three and nine months ended October 31, 2007, was primarily due to respective increases of \$94,640 and \$597,714 in stock-based compensation expense and respective increases of \$118,130 and \$313,557 in salaries, wages and benefits.

#### Third Quarter Highlight

SGP received notice from Western Geothermal Partners, LLC that it has satisfied all requirements for a 100% interest in the Reese River geothermal power project in Lander County, Nevada. Under the terms of the exploration agreement, SGP was required to meet various thresholds of option payments and work program expenditures totaling US\$5,250,000. SGP has the option to acquire Western Geothermal's one percent gross royalty.

Pursuant to the fundamental acquisition of Cayley Geothermal Corp. (Cayley) dated November 21, 2006, SGP will acquire 100% by issuing 18,000,000 shares over a three-year period. On November 21, 2008, SGP increased its position by an additional 32.24% interest to hold a total of 83% interest in Cayley through the issuance of 6,000,000 common shares, of which 4,004,472 common shares were issued to common directors of SGP and Cayley. SGP will acquire the remaining 17% of Cayley shares through the issuance of 3,220,548 common shares by November 21, 2009.

See <http://www.marketwire.com/press-release/Sierra-Geothermal-Power-Corp-TSX-VENTURE-SRA-924911.html>.

## **Western GeoPower: Smith Appointed as Interim Chief Financial Officer**

November 27, [Don J. A. Smith Appointed as Interim Chief Financial Officer](#)

TSX Venture Exchange Trading Symbol: WGP Western GeoPower Corp., a renewable energy development company, today announced that Don J.A. Smith, C.A., MBA has assumed the role of Chief Financial Officer and Corporate Secretary of Western GeoPower Corp. on an interim basis. Rupi Khanuja will be on a temporary personal leave from her position of Chief Financial Officer and Corporate Secretary, but will be available to the company as and when required.

Mr. Smith brings significant and relevant experience in the geothermal and mining sectors, including corporate finance, corporate governance and business planning. His business career includes serving as Chief Financial Officer of Nevada Geothermal Power Inc., Primary Metals Inc. and Oremex Resources Inc. Mr. Smith has invaluable financial experience and knowledge and was instrumental in planning and executing a \$29 million refinancing realizing an annual savings of \$700,000 for a publicly listed company. Mr. Smith has provided consulting services to a number of corporate boards on corporate governance structures and related matters.

He is past President of the Simon Fraser University (SFU) Alumni Association, a past Chair of the SFU Chancellor Nominating Committee and a past member of the SFU University Senate. Mr. Smith currently is a Director and Chairs the Audit Committee of Coast Wholesale Appliances Income Fund (TSX). Mr. Smith received an MBA from SFU and is a Member of the Institute of Chartered Accountants of British Columbia.

“Don’s extensive corporate finance experience and business planning skills is a welcome asset to Western GeoPower,” said Kenneth MacLeod, President and CEO of Western GeoPower. “His previous experience in the geothermal sector will allow us to continue forward seamlessly until Rupi’s return.”

See [http://www.emediaworld.com/press\\_release/release\\_detail.php?id=286268](http://www.emediaworld.com/press_release/release_detail.php?id=286268).

## **Renewable and Climate Change News**

### **Western Governors’ Letter to Obama Calls for Swift Action on Energy Plan**

The Western Governors’ Association addressed a letter to President-elect Obama on November 20, urging him to “ensure swift adoption and implementation of an energy plan that will provide affordable and clean energy to sustain our economy, stimulate greater energy efficiency, strengthen our energy security and independence, and reduce greenhouse gas emissions.”

The letter outlines policies and incentives to help states and the nation move aggressively to develop renewable energy resources. The governors said a national energy policy must promote energy efficiency; reduce greenhouse gas emissions on a scale necessary to contribute to climate stabilization; maximize the economic development opportunities offered by clean energy; ensure energy costs are affordable and support a sustainable, growing economy; increase the proportion of energy supplies that come from domestic resources and friendly trading partners; and minimize adverse environmental impacts.

A long-term national public investment of tens of billions of dollars annually will be needed, along with a similar investment from the private sector, they said. This would result in near-zero greenhouse gas emissions from new coal-fired electricity generation in 10 years and from existing generation no later than 2030; dramatically increased energy from wind, solar, geothermal, hydro and biomass resources; expansion and upgrade of the electricity transmission grid and storage capabilities; advanced vehicle and battery technologies and alternative transportation fuels; and next generation energy efficiency technologies and practices.

See <http://yubanet.com/usa/Western-Governors-call-for-swift-adoption-implementation-of-national-energy-plan.php>. The governors' letter and additional information can be found at [www.westgov.org](http://www.westgov.org).

## **White House Approves New Environmental Regulations**

From Sustainable Energy Coalition/SUN DAY Campaign, [At the Last Minute, a Raft of Rules—Bush White House Approves Regulations on Environmental, Security Matters](#)

The Bush White House in the past month has approved 61 new regulations on environmental, security, social, and commercial matters. In the environmental area, a rule approved by the White House three days after the presidential election, for example, would ease constraints on environmentally damaging oil shale development throughout the West, despite objections from Colorado Gov. Bill Ritter (D) and a majority of the state's congressional delegation. Another rule would allow federal agencies to proceed with development projects without undergoing independent scientific review under the Endangered Species Act. On November 19, the OMB ordered the Energy Department to kill new regulations that would have forced the federal government to buy more-energy-efficient lights, appliances, and heating and cooling systems. The White House also ordered the Environmental Protection Agency to withdraw a new regulation mandating that truck manufacturers install equipment to monitor vehicle pollution.

See <http://www.washingtonpost.com/wp-dyn/content/article/2008/11/29/AR2008112901914.html?hpid=topnews>.

## **UN Climate Agency Reports Rising Cost of Climate Change Measures**

From Sustainable Energy Coalition/SUN DAY Campaign, [Climate Fight Costs May Be Three Times More](#)

The cost of efforts to avoid dangerous global warming may be 170% higher than 2007 estimates, a report for the UN's climate agency said. The UN report cited research by the International Energy Agency (IEA), energy adviser to 28 countries, and others which showed growing capital costs especially in the energy sector. Last year the corresponding study estimated the additional investment required to cut greenhouse gas emissions by a quarter at \$200-210 billion annually by 2030. However more recent studies in 2008 showed higher estimates. A report on technology transfer also for the UN climate agency estimated total finance needs of \$300-1,000 billion annually over the period from now to 2030. The IEA estimated annual additional investments in technologies to fight climate change at \$1,000 billion annually from 2010-2050.

See <http://uk.reuters.com/article/environmentNews/idUKTRE4AQ71520081127>.

## **State News**

### **California: Sunrise Powerlink Transmission Project Could be Key to Advancing Geothermal Projects; GEA Endorses Project**

[GEA Gains Standing In Renewable Energy Transmission Proceeding in Southern California: Connecting Up Imperial County Geothermal Energy](#) ~ by John McCaull, GEA Western States Representative

December 2, 2008. In late November, the Geothermal Energy Association (GEA) successfully filed a submission with the California Public Utilities Commission seeking party status in the Sunrise Powerlink Transmission Project review proceeding. [The Sunrise Powerlink Project](#) – proposed by the San Diego Gas & Electric Company -- seeks state authorization to construct a 150-mile transmission line from the renewable energy “resource-rich” Imperial Valley to the homes and businesses of the 650,000 residents of the coastal urban areas of San Diego County. The near-term development of geothermal energy and other resources in the Imperial County region is an essential part of the state’s plan to meet greenhouse gas reduction goals through an expanded renewable energy market.

According to Karl Gawell of GEA, “The precedent-setting nature of the Sunrise proceeding required that GEA weigh in on critical issues of direct interest to geothermal energy companies in California. There are over 2000 MW of geothermal energy coming out of the Imperial Valley that have been identified as market-ready. The single greatest barrier to bringing these resources into the market, and thereby displacing carbon-fuel energy sources, is getting transmission upgrades to California’s electricity grid.”

California and other states have established [renewable portfolio standards \(RPS\)](#), mandating the purchase of various percentages of renewable sources of energy by retail electricity providers. In 2002, the justifications for California’s renewable energy development program were numerous (i.e., “increasing the diversity, reliability, public health and environmental benefits of the energy mix...”). However, in 2008 the reasoning for boosting renewable energy development has come into sharper focus on two issues: climate change and jobs. Can California dramatically increase the deployment and use of geothermal, solar, and wind power technologies to combat global warming? And can California retool its economy on the backs of a green economic development strategy?

Just as California has constructed an unprecedented system for conveyance and delivery of water in a state that has a disparity of regional abundance and regional deficits for this precious resource, renewable energy development promises to be an equally tricky economic and geographic challenge. As an example, the San Diego urban area relies on predominantly imported water for its consumptive use; the area is also looking at far-away areas to access geothermal, solar, and wind power to meet their 20% by 2010 and 33% by 2020 renewable energy procurement goals.

As SDG&E states on their Project Web site: “A major new transmission line is needed by 2010 to ensure reliable power for SDG&E customers. Forecasts show that by 2010 the region will demand, at times, more energy than can be generated locally or imported on existing transmission lines – even with two new power plants added to the region. Further, SDG&E needs the Sunrise Powerlink to meet new state mandates requiring utilities to generate 20% of energy supplies from clean, renewable resources by the year 2010.”

When an independently owned utility in California wants to build a new transmission line, they must seek authorization for a “certificate of public convenience and necessity (CPCN)” from the California Public Utilities Commission. A utility files a CPCN application to construct a transmission line, substation, gas storage facility, or a water facility. The CPCN is accompanied by a full environmental review through the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) and a legal justification for the project that may be based on economic, reliability, or renewable energy goals.

The Sunrise Powerlink proceeding before the CPUC has been a pitched battle. Environmental impacts and route concerns bogged the process down for several years, but in recent months an [environmentally superior southern route](#) has been developed that may signal that the votes are in place at the Commission for Project and CPCN approval. As the Project moves closer to approval, a few key detail issues have emerged that are holding up final review and vote by the CPUC.

In its comments, GEA noted that the state’s [Renewable Energy Transmission Initiative \(RETI\)](#) has identified the renewable energy zones of Imperial County are extremely competitive from an economic and environmental ranking standpoint. GEA also cited the California Independent System Operators (CAISO) Summer 2008 Report that calculated the Sunrise Project will ensure that SDG&E can meet a 33% RPS target by 2020, and, compared to other generation and transmission alternatives, CAISO consumers will net \$129 million in annual savings if Sunrise is built.

GEA was granted limited party status to comment on one key, outstanding issue: What sort of compliance plan must be established to ensure that renewable energy generation will be developed and delivered on the Sunrise transmission line? In meeting proposed conditions imposed by the CPUC, SDG&E is being asked to provide significant detail about these projects, including expected contractual commitments, project descriptions, and project construction schedule.

To ensure the GHG emission reductions and economic benefits estimated for the Final Environmentally Superior Southern Route, Commissioner Dian Grueneich proposed several conditions of approval endorsed by GEA:

1. SDG&E shall procure a cumulative total of 8,000 GWh/year of Imperial Valley renewables to be delivered over Sunrise by no later than 2015.
2. SDG&E shall adopt a 33% RPS goal and shall adjust its procurement decisions accordingly.
3. SDG&E shall refrain from procuring contracts for coal fired generation of five years or less. This condition shall not apply to spot market purchases of system power.

The Proposed Decision goes on to state that "should SDG&E believe that the above measures would not result in adequate renewable resources to meet the 8,000 GWh/year target by 2015, additional Imperial Valley renewables shall be procured either through existing annual RPS solicitations or a special Imperial Valley Request For Offers." As an additional precaution, GEA endorsed the Independent Energy Producers (IEP) proposal that would add an open, transparent, competitive procurement process to be fully completed by December 31, 2009.

The Sunrise Powerlink Project will go before the full CPUC Board for approval in late 2008 or early 2009, hopefully resulting in one of the most important renewable energy transmission expansion projects in California in the last 20 years.

### **Colorado: Governor's Energy Office Awards Grant to Map Hot Springs**

A \$25,000 grant was awarded to the city of Ouray in October by the Governor's Energy Office (GEO) for research into the geothermal hot springs in the area, according to ouraynews.com. A report from the city to the GEO is due by mid-May, to be followed by a county-wide hot-springs inventory. The immediate goal is to monitor all known hot springs by the end of the year, Ouray Mayor Bob Risch told press.

"We recognize that we are exceptionally fortunate in our available geothermal and hydroelectric resources and have a responsibility to utilize these assets in the most efficient ways possible," wrote Risch in the grant request. "Our primary interest at this stage in the exploration of our geothermal resources is the complete inventorying of our springs in terms of energy content, options for cost-effective utilization, and legal ownership history and status."

As stated in the grant request, "The second phase will involve the identification of appropriate projects and requisite funding perhaps including carbon-offset sources, to begin replacing fossil fuel space heating plants with geothermal options."

See [http://www.ouraynews.com/Articles-i-2008-11-28-188251.112113\\_Grant\\_mapshot\\_springs.html](http://www.ouraynews.com/Articles-i-2008-11-28-188251.112113_Grant_mapshot_springs.html).

### **Utah: Beaver County Becoming Crossroads for Renewables in the State**

An article in the *Salt Lake Tribune* brings attention to multiple renewable energy projects going on in the Beaver area of the state. An informal committee is looking into a renewable energy center that would offer training and education in the renewable energy field, with Beaver County in consideration as an ideal location.

"There's a lot going on out there," said Jason Berry, the renewable energy coordinator with Utah Geological Survey. "There's a lot of leased land for geothermal development and a lot of prospecting [for wind and hot water] by companies interested in the state."

See [http://www.sltrib.com/news/ci\\_11090215](http://www.sltrib.com/news/ci_11090215).

## **Vermont: Bellows Falls Geothermal Testing Put On Hold**

Bellows Falls, Vermont, lacks the funding to further investigate geothermal resources, according to reformer.com. Preliminary explorations showed that geothermal sites were available, but the results were not conclusive enough to validate another \$70,000 to continue the testing, according to the article. It may be another five years before the energy sources is able to be tapped, the article said.

See [http://www.reformer.com/ci\\_11092861](http://www.reformer.com/ci_11092861).

## **International News**

### **Argentina: Two Geothermal Projects Underway, a Third in the Works**

Press Release—November 25, [Fellows Energy Signs Option to Acquire Two Advanced Geothermal Projects](#)

Fellows Energy Ltd. (FLWE:) is pleased to announce that it has entered into an agreement, subject to due diligence, to acquire two advanced geothermal projects in the Andes Region of Argentina from Geothermia Andina, SA, a private Argentine entity. The two new projects are in addition to the Company's recent announcement relating to Grupo Minero Aconcagua SA (GMA), a private Argentine company in advanced stages of negotiation to acquire rights to geothermal and wind energy projects in central and southern Argentina.

The two projects now under option include the Valle Del Cura and the Tuzgle-Tocomar projects, both entering the pre-feasibility stage and hosting an estimated combined 300 MW of electric power generating potential. Fellows has targeted a third project in Argentina which has been the subject of a feasibility study covering the first 30 MW of an estimated 100 MW of generating potential. The three projects combined would host an estimated 400 MW of potential. The Company is also working toward the completion of its acquisition of GMA.

Although the precise terms of the purchase options have not been disclosed at this time for competitive reasons, the purchase options call for nominal up-front payments and a graduated option payment schedule over several years. This structure gives the Company adequate time to evaluate the value of the projects and obtain joint venture or other funding for development and purchase capital.

In spite of the current conditions in the financial markets in general, the Company believes that a number of financial incentives and an emerging, favorable market and attractive financing terms for geothermal, wind and other alternative energy projects will provide a solid basis to move forward. In addition to the revenue associated with generating power, it is also expected that the projects will qualify for carbon bonds and national premiums that will further enhance the cash flow potential of the projects. Although the Company is now actively refocusing its efforts to take advantage of the alternative energy segment of the industry, it also continues in its efforts to obtain joint venture financing on its oil and gas exploration projects in the western U.S. to enable it to eliminate its convertible debt and strengthen its balance sheet.

"The signing of option agreements to acquire these two projects is a big step forward in bringing value into the Company and restructuring our asset base," said Fellows CEO, George Young. "Acquiring the rights to these two advanced-stage projects will greatly assist us in building shareholder value and enable us to grow the Company while we improve our balance sheet and capital structure. We plan to move forward quickly with preliminary project evaluation and assessment of financing alternatives through partnerships or joint venture arrangements."

See <http://www.marketwatch.com/news/story/Fellows-Energy-Signs-Option-Acquire/story.aspx?guid={52AD62CA-D395-4C77-B255-234F43388916}>.

## **Australia: Geothermal Industry Plan Launched**

Australia has released the Geothermal Industry Development Framework and Technology Roadmap, a joint effort between industry, researchers, and governments, according to [energycurrent.com](http://energycurrent.com). Key recommendations relate to attracting investment, gathering geoscientific data, developing networks and international linkages, progressing research and development, and building human capacity in the field of geothermal, the article said.

Australia's Minister for Resources and Energy Martin Ferguson told press, "The Framework is designed to accelerate the development of geothermal energy in Australia and assist in the development of low cost, reliable, and large scale solutions to the climate change and energy supply challenges we will face in coming years." He added, "The Technology Roadmap explores issues relating to research and development opportunities in areas such as exploration, potential geothermal resources, and reservoir modeling, while technical challenges and possible actions have also been identified."

See <http://www.energycurrent.com/index.php?id=3&storyid=14613>.

## **Australia: Geothermal Capital Raisings Good News for Renewables Investments**

Australian geothermal power developer Geodynamics Limited has completed three successful capital raisings this year — A\$37.5m (May), A\$33.5m (June) and A\$44.1m (September), according to [au.legalbusinessonline.com](http://au.legalbusinessonline.com). Eugene Fung, partner at DLA Phillips Fox, told press that the investment showed that despite a difficult market, there was still capital available for quality renewable energy projects. The Australian Government has set a goal of doubling the market share of renewable energy from 10% to 20% by 2020, the article said.

See <http://au.legalbusinessonline.com/news/breaking-news/31608/details.aspx>.

## **Australia: Victoria Awards Geothermal Exploration Permit to Petratherm**

Petratherm has announced some new developments in the company's interests in the state of Victoria. According to their press release, they have been awarded a 9,000 km<sup>2</sup> exploration permit for geothermal resources in Victoria's East Gippsland Basin and intend to develop a Hot Sedimentary Acquirer geothermal project. The Victorian government strongly encourages the project and has recently established a \$72 million fund for Large Scale Renewable Demonstration projects. Preliminary economic analysis indicates that the project is capable of producing commercially viable, large-scale baseload power generation. The Company plans a phased exploration program over the next 5 years beginning with magneto-telluric and seismic work, followed by production well drilling, reservoir development, and closed loop circulation testing, the press release states.

*The Petratherm release is available at*

<http://www.petratherm.com.au/asx/downloads/ASX%20Release%20Victorian%20Permit%20Granted%20-%20November%202008.pdf>.

## **Chile: Enel to Invest \$1.37bn in Latin American Renewable Projects**

Attending a geothermal conference in Chile, Enel president of Latin American operations Valerio Cecchi said the Italian company plans to invest 1.09bn euros (US\$1.37bn) in geothermal projects in Latin America through 2012, according to *Business News Americas*. In the works are geothermal projects in El Salvador, Nicaragua and Chile, hydro projects in Costa Rica, Guatemala and Chile, and wind farms in Brazil and Mexico.

See [http://www.bnamericas.com/sector\\_home.jsp?sector=10&idioma=I&noticia=459214](http://www.bnamericas.com/sector_home.jsp?sector=10&idioma=I&noticia=459214).

## **Chile: Energy Submission to Facilitate Geothermal Concessions**

Chile's energy commission and mining ministry plan to make the process of obtaining geothermal concessions throughout the country easier, energy minister Marcelo Tokman told journalists, according to *Business News Americas*. The legislation would reduce the time it takes by about 40% and would set aside funds for geothermal exploration through the state development agency Corfo. It would also allow for a more flexible definition of exploration blocks.

"This legislation will address several problems in the current tender process," Tokman told press following a geothermal conference in Santiago. "The first problem is we have an avalanche of concession requests for geothermal exploration, but we often have doubts if the concessions are being obtained for exploration or if the requests are for speculative reasons."

See [http://bnamericas.com/sector\\_home.jsp?sector=6&idioma=I&noticia=459249](http://bnamericas.com/sector_home.jsp?sector=6&idioma=I&noticia=459249).

## **Philippines: Geothermal Expansion Set to Aid Power Demand**

The P2-billion Energy Development Corp. (EDC) expansion project at the Northern Negros Geothermal Production Field will help to ensure a supply of power to Negros Occidental customers, according to [sunstar.com.ph](http://sunstar.com.ph). The steam augmentation program was implemented to add another 15 to 20 MW to the current 200 MW. The current demand is 235 MW.

"The population is growing; new houses that need electricity are being built but no power plants are put up to meet the power needs," EDC senior supervisor Erwin Magallanes told press. "The project is a matter of national interest and the work will continue until the day EDC realizes its goal of producing 49-MW power for the needs of its clients, the Negros Occidental consumers."

See <http://www.sunstar.com.ph/bacolod/geothermal-expansion-ensures-supply-neg-occ-power>.

## **Rwanda: Geothermal Energy a Priority for Ministry of Infrastructure**

Rwanda is ready to use geothermal power, according to [allafrica.com](http://allafrica.com). Uwera Rutagarama, an official from the Ministry of Infrastructure in charge of geothermal development, told press that the country sees geothermal energy as a priority. A Rwandan delegation attended the recent second African Rift Geothermal Conference.

Rwanda wants to join the African Rift Geothermal Organization to benefit from the African Rift Geothermal Development Facility available to member countries, Rutagarama said. "We also want to benefit from services and facilities offered to member countries such as sourcing finances for geothermal development, in particular drilling which is very expensive and also capacity building for Rwandans," she added.

See <http://allafrica.com/stories/200811270230.html>.

## **Uganda: More Exploration Needed for Geothermal Potential**

Uganda has conducted preliminary surveys on potential geothermal resources at Katwe, Buranga, and Kibiro, according to *East African Business Week*. The results were not concrete enough to interest investors, but were promising, according to Joshua Tuhumwire, commissioner, department of geological survey. Tuhumwire told press deeper wells need to be drilled. Tuhumwire presented a status report on geothermal exploration and development in Uganda at the second African Rift Geothermal Conference at Entebbe.

See [http://www.busiweek.com/index.php?option=com\\_content&task=view&id=717&Itemid=1](http://www.busiweek.com/index.php?option=com_content&task=view&id=717&Itemid=1).

## **Notices and Employment Opportunities**

### **Employment: Project Director, Municipal Clean Energy Project, Alliance to Save Energy**

The Alliance to Save Energy is seeking a Project Director to start-up and to lead the Municipal Clean Energy Project (MCEP). The MCEP is a new multi-year, national initiative to encourage investment in, and deployment of, energy efficiency and clean energy programs and policies by publicly owned power utilities in the U.S.

The Project Director will have oversight and responsibility for the entire MCEP program, will report to the Vice President of Programs for the Alliance as well as to the MCEP Steering Committee, and will liaise with key project partners.

The successful candidate must have at least five years of program management experience and three years of experience in one of the following areas: publicly owned utilities, municipalities and/or energy efficiency. The candidate must also demonstrate organizational, writing and communications expertise and have the ability to work with senior level executives to both design and lead multi-faceted programs and initiatives. S/he must have a demonstrated ability to build and lead partnerships and/or coalitions. The candidate will work in a fast-paced environment with highly motivated staff in a rapidly growing, energy efficiency-focused organization. The position requires a modest amount of travel, mostly within the U.S. Candidates must have at minimum a Bachelors degree, Masters preferred.

Initial funding has been secured from a major foundation for the development of this initiative and the donor has expressed their interest in the future expansion of the program. Additional proposals have already been submitted to other funding sources. The current funding cycle is through 2011.

The position responsibilities include, but are not limited to, the following:

- Manage MCEP logistics, including budgeting, communications reporting, maintenance of the project web site, and supervision of project personnel and contractors;
- Liaise with the MCEP Steering Committee and project partners;
- Compile, field test and produce “best practice” tool kits for use by MCEP participants;
- Coordinate with project partners in the delivery of MCEP workshops and the tracking of workshop outcomes;
- Manage special events, including a project launch and Municipal Clean Energy Summits;
- Integrate the activities of the MCEP with other leading clean energy policy initiatives.

Salary is competitive based upon experience. The Alliance to Save Energy offers a generous benefits package and a comfortable work environment in downtown Washington DC convenient to Metro. Consideration of candidates will begin immediately and continue until the position is filled. The Alliance is an equal opportunity employer.

Applicants should send a cover letter, resume, salary history and references no later than December 1, 2008 by mail to Dianne Streat, Director of Administration, Alliance to Save Energy, 1850 M Street, N.W, Suite 600, Washington, DC 20036, or via email to [dstreat@ase.org](mailto:dstreat@ase.org). No calls please.

### **Resource Development Opportunity – Rosebud Sioux Tribe, Rosebud, SD**

The Native American Tribe near Mission SD has a deposit of geothermal energy under their large Rosebud Reservation in South Dakota. See U.S. News & World Report, November 7, 2007, DOE map of U.S. Geothermal Hotspots, p. 52, reference to deposit p. 50.

Leigh Bryant-Zarse, the architect, engineer, and consultant in Wisconsin who is submitting this solicitation, attended a meeting of the Tribe Council on September 16, 2008. The Tribe presented him with a resolution to approach developers with free exploration rights on their reservation, and agreed to split 1/10 of 1% of the energy profits for a period of 2 years, if found. These parties are looking for help to develop the resource. The reservation is under one ownership, making it easy to deal with.

Contact: Leigh Bryant-Zarse, Architect-Engineer-Consultant, 1812 Mountain Ave., Wauwatosa, WI 53213-2336, phone and fax: 414-259-1812  
Rosebud Sioux Tribe: Chief Rodney Bordeaux, PO Box 430, Rosebud, SD 57570, phone 605-747-2381

## **Great Basin Transmission Opens Bids for Transmission Rights in Idaho, Nevada**

Press Release—November 6, [Great Basin Transmission Announces Open Season for the Southwest Intertie Project](#)

Great Basin Transmission, LLC announces today an Open Season to receive proposals for the purchase of long-term point-to-point transmission rights on the Southwest Intertie Project (SWIP). Successful bidders in the Open Season will secure firm transmission rights to support financing of new generation resources and to allow existing generation resources to transport their output to attractive liquid markets in the West.

The SWIP is a proposed above-ground 500 kV AC transmission line stretching over 500 miles between southern Idaho and southern Nevada. As much as 1,850 MW of north-to-south transmission capacity and 1,850 MW of south-to-north transmission capacity will be available for purchase during the Open Season.

The SWIP will provide a new energy pathway connecting the existing high voltage transmission infrastructure near Twin Falls, Idaho and the existing systems in northern Nevada and the Las Vegas area. It will provide direct interconnection and/or viable access to multiple transmission providers in the West which may include Arizona Public Service, Idaho Power, Los Angeles Dept. of Water and Power, Nevada Power (NV Energy), PacifiCorp, Salt River Project, Sierra Pacific Power (NV Energy), Southern California Edison, and Western Area Power Administration.

The SWIP is being developed in phases and is well advanced such that the first phase connecting southern Nevada with northern Nevada is expected to begin construction in 2009 and achieve commercial operation as early as 2010.

GBT is developing the SWIP in response to the growing needs of the Desert Southwest and the Northwest. The SWIP will also provide an important pathway for renewable energy resources to reach major load centers.

GBT will conduct the Open Season in a transparent and nondiscriminatory manner. Entities wishing to secure long-term point-to-point transmission rights on the SWIP may submit proposals for consideration. To ensure a fair and open process, generation affiliates of GBT will not submit proposals in the Open Season. GBT will hold a conference for potential bidders in Las Vegas on November 18, 2008, to provide a description of the SWIP and key information about the Open Season process. GBT staff will be available at the conference to answer questions and receive feedback from potential bidders. The specific time and location details for the conference will be posted on the SWIP Open Season website.

For more details regarding the SWIP and the Open Season please visit the dedicated website at: <http://www.SWIPOS.com>. Any party interested in participating in the Open Season is encouraged to register at the website to ensure they receive all communications related to the Open Season. Questions may be submitted via email at [SWIP@SWIPOS.com](mailto:SWIP@SWIPOS.com).

## **DOE Announces Open Geothermal Technologies Funding Opportunity**

From DOE's Web site:

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

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

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

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

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

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

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

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

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

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

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

## **Employment: Research Associate II, SMU Geothermal Laboratory**

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

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

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

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

## **Employment: Geothermal Engineering Analyst, National Renewable Energy Laboratory**

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

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

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

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

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

Pre-employment drug testing required.

Please visit our website for more information and to apply online: [www.nrel.gov/employment/](http://www.nrel.gov/employment/)  
NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

## **Employment: Sales Manager, Ormat Technologies**

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

Position Title: Manager of Sales, Geothermal Development; Department: Business Development; Location: Corporate Office Reno, NV; Reports to: Director, Geothermal Development; Position Summary: The

Manager of Sales, Geothermal Business Development, will be responsible for the sales and marketing of renewable energy products. The selected candidate will help lead the commercialization and sales efforts for Ormat's latest geothermal supply of geothermal plant equipment, electrical power generation projects, as well as the supply of engineering and construction services for 3rd Party power projects.

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

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

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

Physical Requirements: Must be able to travel regularly

To apply for the position please send a resume to [Chris@redfishtech.com](mailto:Chris@redfishtech.com).

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

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

Requires BA in electrical/mechanical engineering; MA preferred; and min 10 yrs exp plant/production engineering, preferably within geothermal industry; 2 yrs experience plant reliability/ maintenance engineering & 2 yrs mgmt. exp preferred. Requires knowledge/experience in industry codes/standards; CMMS, Root Cause Failure Analysis, Reliability Centered Condition Based/Mntc, CBM equip; steam turbine plant monitoring & power plant electrical sys; writing, analyzing/interpreting scientific/tech info.; making presentations and some travel in CA. Starting salary: \$96 to \$121K plus exc employer benefits inc CalPERS retirement/medical.

Application at [www.ncpa.com](http://www.ncpa.com), submit to NCPA HR, 651 Commerce Dr., Roseville, CA 95678. Open until filled.

### **Requests for Proposals (RFPs)**

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

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

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

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

The October 2008 RFO is soliciting offers for carbon offset projects preferably developed according to one of the CCAR-approved protocols which include: dairy manure digesters, landfill gas, forestry and urban forestry, and protocols under development: natural habitat restoration, truck stop electrification, food and wood waste diversions from landfills, energy efficiency retrofits, new cogeneration, bus fleet upgrades, bus rapid transit lanes and related mode shifting, and N<sub>2</sub>O reduction in acid plants.

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

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

See the entire SMUD news release at [http://www.smud.org/en/news/Documents/08archive/10-17-08\\_carbon\\_offsets\\_RFO.pdf](http://www.smud.org/en/news/Documents/08archive/10-17-08_carbon_offsets_RFO.pdf).

### **RFP for Pollution Control Policy and Environmental Economic Data, U.S. EPA (December 5)**

The U.S. Environmental Protection Agency requests proposals for Research on the Design of Policies for Pollution Control Using Market Mechanisms, and, Data Gathering for Dissertation and Early Career Research on the Pollution Control Aspects of Environmental Economics. \$1.2 million expected to be available, up to 7 awards anticipated. Responses due 12/5/08. For more info, go to: <http://yosemite.epa.gov/ee/epa/eed.nsf/webpages/GrantSolicitations.html>. Refer to Sol# EPA-OPEI-NCEE-08-02. (Grants.gov 10/17/08)

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

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

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

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

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

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

### **RFP for Sustainable Skylines Initiative, U.S. EPA (December 17)**

The U.S. Environmental Protection Agency requests proposals for the Sustainable Skylines Initiative (SSI). SSI supports community efforts to develop locally-led activities to help reduce emissions and promote sustainability with the goal of cleaner and healthier air. \$250K expected to be available, up to 5 awards anticipated. A Notice of Intent to Apply is requested but not required and is due 11/21/08. Proposals due 12/17/08. For more info, contact Yvonne Johnson at [Johnson.yvonne@epa.gov](mailto:Johnson.yvonne@epa.gov) or go to: [http://www.epa.gov/air/grants\\_funding.html](http://www.epa.gov/air/grants_funding.html). Refer to Sol# EPA-OAR-OAQPS-08-08. (Grants.gov 10/29/08)

### **RFP for Environmental Education Grants, U.S. EPA (December 18)**

The U.S. Environmental Protection Agency requests proposals for Environmental Education Grants. This program supports environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. \$3 million expected to be available, up to 95 awards anticipated. Responses due 12/18/08. For more info, including Regional contacts, go to: <http://www.epa.gov/enviroed/grants.html>. Refer to Sol# EPA-EE-09-02. (Grants.gov 11/6/08)

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

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

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

### **Request for Applications for Office of Science Financial Assistance Program, U.S. DOE (December 31)**

The U.S. Department of Energy, announces its continuing interest in receiving applications for the Office of Science Financial Assistance Program. Areas of interest include, but are not limited to, Basic Energy Sciences and Biological and Environmental Research. Subtopics include Climate Change Research. \$400 million expected to be available, multiple awards anticipated. Responses due 12/31/08. For more info, contact Lori Jernigan at [Lori.Jernigan@science.doe.gov](mailto:Lori.Jernigan@science.doe.gov) or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/1822D414FB0C1064852574D50071644C?OpenDocument>. Refer to Sol# DE-PS02-09ER09-01. (Grants.gov 10/1/08)

### **RFP for Climate Studies, NOAA (January 5)**

The National Oceanic and Atmospheric Administration requests proposals for a Cooperative Institute that will focus on: 1) Climate and satellite research and applications, 2) Climate and satellite observations and

monitoring, and 3) Climate research and modeling. \$13 million expected to be available, 1 award anticipated. Responses due 1/5/09. For more info, contact Ingrid Guch at [ingrid.guch@noaa.gov](mailto:ingrid.guch@noaa.gov) or go to: <http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=43003>. Refer to Sol# NESDIS-NESDISPO-2009-2001411. (Grants.gov 10/7/08)

### **RFP for National Geothermal Database, U.S. DOE (February 3)**

The U.S. Department of Energy requests proposals for the National Geothermal Database Grant. Through this RFP, DOE seeks the creation of a web-based National Geothermal Database that will serve as a central repository for all publicly accessible geothermal data. \$5 million expected to be available, 1 award anticipated. Responses due 2/3/09. For more info, contact Pete Simon at [GO.Geothermal@go.doe.gov](mailto:GO.Geothermal@go.doe.gov) or go to: <https://e-center.doe.gov/iips/faopor.nsf/UNID/7CAC4E5E3DA165D9852574D30071183E?OpenDocument>.

Refer to Sol# DE-PS36-08GO98020. (Grants.gov 9/29/08)

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

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

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

### **RFP for Energy Efficiency, Renewable Energy, and Transmission Technologies, DOE (February 26)**

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

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

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

With questions, email the LGPO at [lgprogram@hq.doe.gov](mailto:lgprogram@hq.doe.gov). Please include in the subject line "RETDEE Solicitation Question." Completed applications due February 26, 2009 Full announcement can be found at <http://www.lgprogram.energy.gov/keydocs.html>.

## **Upcoming Events**

### **Investor/Donor Conference: Geothermal Exploration and Development in Ethiopia, December 2–3 (Addis Ababa, Ethiopia)**

The conference will be organized by the Ministry of Mines and Energy on Tuesday, December 2, 2008 in Addis Ababa, Ethiopia.

Following this, a "one to one" detail discussion on specific project of your interest and/or site visit to the Aluto-Langano geothermal field will be held on Wednesday, December 3, 2008.

The main objective of the conference is to share with the participants (a) the new strategic development plan and the identified potential projects for investment, (b) familiarize the prospective investors with the relevant promotion policies of the Government of Ethiopia on (i) investment in power sector, (ii) investor promotion/friendly policy framework, and (iii) where possible, to firm up investment proposals with individual potential investors.

Geothermal exploration and development programs in Ethiopia have been conducted for the last four decades in the Ethiopian Rift Valley that covers an area of 150,000 km<sup>2</sup> and discovered over 18 geothermal prospect areas. Despite this, the country has not yet benefited from this indigenous and environmentally friendly resource in a meaningful manner.

Kindly respond by email address [mme@ethionet.et](mailto:mme@ethionet.et) with copies to [geology.institute@ethionet.et](mailto:geology.institute@ethionet.et), [eelpa@ethionet.et](mailto:eelpa@ethionet.et), and [electric.agency@ethionet.et](mailto:electric.agency@ethionet.et).

### **NILS GeoCommunicator BLM Public Workshop, December 10 (Lakewood, CO)**

Come see the BLM's Land and Mineral Use Records systems. This Workshop will benefit mining, energy, title, utility, survey, educational, and environmental users. Live demonstrations and hands-on will be given on the BLM's NILS GeoCommunicator and LR2000. The workshop will take place Wednesday, December 10, 2008. Choose one session: 9:00 a.m. to 11:00 a.m. -or- 1:30 p.m. to 3:30 p.m, at the Denver Federal Center (Alameda and Kipling), Enter through Gate 1 (ID required at the gate), Bldg. 40, 1st Floor, Training Room, Lakewood, CO.

Learn how to:

- Download PLSS data (Township/Range/Section grid).
- Map BLM land and mineral use authorizations such as: oil and gas leasing and sales, geothermal, coal, mineral material disposal, rights-of-way, stipulations, conveyances, wind, solar, and more.
- Link parcels directly to LR2000 reports.
- Map grazing allotments and pastures-link allotments to grazing reports.
- View federal surface management agency boundaries and U.S. Forest Service sale parcels.
- Highlight new map features.
- Use GeoCommunicator map and web services within your own GIS.

Registration and Questions? Please reserve your place by sending an email to [Richard\\_McKinney@blm.gov](mailto:Richard_McKinney@blm.gov) (Please specify a.m. or p.m. session).

## **Utah Geothermal Lease Sale, BLM, December 19**

The Utah State Office has scheduled a proposed competitive geothermal lease sale on December 19, 2008.

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

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

## **Ground Engineering Geothermal Energy, February 5 (London, England)**

Ground Engineering Geothermal Energy: Unlocking opportunities, collaborating across disciplines and understanding what works

Thursday 5th February 2009, Earls Court Conference Centre, London SW5

Explore latest approaches to harnessing ground source energy and learn from the experiences others have had in this growing sector. Capitalize on the opportunity to position your firm ahead of the competition and attract new clients to the services you offer.

Key speakers include:

- Duncan Nicholson, Director, Arup
- Aleksandra Sasha Krstanovic, Regional Director, Faber Maunsell
- Brian Mark, Director of Sustainability, Fulcrum Consulting
- Peter Smith, Geothermal Manager, Cementation Skanska
- Dr Robin Curtis, Technical Director, Earth Energy Ltd

Register today to:

- Build relationships in this sector
- Get technical information on the building services and geotechnical challenges of ground source energy
- Hear from leading players within the geothermal field

For more information visit [www.geothermal.co.uk](http://www.geothermal.co.uk), call 0845 056 8069 or email [constructconferences@emap.com](mailto:constructconferences@emap.com). Quote "GEA" when you register

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

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

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

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

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

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

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

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

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

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

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

## **New Date: Canadian Geothermal Energy Association Conference and AGM, April 22–24, 2009, (Vancouver, B.C.)**

The Canadian Geothermal Energy Association (CanGEA) announces their Workshop, Tradeshow, Conference and AGM on April 22–24, 2009 in Vancouver, BC.

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

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



### ***GEA Update***

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