



GEO THERMAL ENERGY ASSOCIATION

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National News

Congress in Session: Outlook for FY 2009 Funding and Tax Credit Extensions

With energy polling as a top national issue and elections two months away, Congress is expected to try to take action on energy legislation as it reconvenes for its September work session. Both the House and Senate are expected to try to move energy legislation that is likely to include extensions of the Production and Investment tax credits for geothermal and other renewable technologies. But whether they can achieve the bipartisan support necessary to ultimately succeed is unclear as other issues cloud the outlook.

A major issue of contention in both the House and Senate will be whether or not to allow more drilling for oil and gas on the Outer Continental Shelf (OCS). This could be further complicated by efforts that seek to include the Arctic National Wildlife Refuge or to impose windfall profits taxes on major oil companies in any OCS provision. Also, with the federal deficit reported to be at an all-time high, whether and how to pay for any extension of the renewable tax credits will continue to be a major sticking point.

In the Senate, the effort to pass bipartisan, comprehensive energy legislation gained steam with the announcement that the “Gang of 10” is expanding by six Senators. This new “Gang of 16” includes eight Republican and eight Democratic Senators who have voiced support for the comprehensive New Energy Reform Act of 2008, or ‘New ERA,’ an energy proposal to reduce gas prices, lessen our nation’s dependence on foreign oil, and strengthen America’s economy. *See* <http://salazar.senate.gov/images/pdf/080731newerapacket.pdf>.

Also, press and observers look favorably on the possibility that the long-stalled tax credit bill, S. 3335, which includes extensions of the ITC and PTC could see action. “But, lawmakers still disagree over how and whether to offset the credits,” note Coral Davenport of Congressional Quarterly.

In addition to energy legislation and energy tax credits, Congress will have only a few weeks to pass a Continuing Resolution to keep federal agencies operating. With the end of the Fiscal Year (September 30) quickly approaching, none of the annual appropriations bill has been passed, making a catch-all Continuing Resolution almost a certainty.

For the DOE Geothermal Research Program, how a Continuing Resolution is structured will be critical. The program was funded at \$20 million in FY 2008, the House has approved legislation funding the program at \$50 million in FY 2009, and the Senate Appropriations bill stipulates \$30 million in FY 2009. Continuing Resolutions tend to pick one spending level (prior year, higher or lower of House/Senate, etc) and apply that rule across the board to federal programs. Also, given the pending elections, it is likely that both parties will want any agreement on a Continuing Resolution to last only until early in 2009, which would allow a new Administration and Congress to influence the final FY 2009 results.

But, even achieving a Continuing Resolution could be complicated by efforts to allow expanded offshore oil and gas drilling. The prohibition on OCS development has been annually included in past appropriations bills, and there may be an effort to block any legislation that extends the prohibition. This could mean blocking action on the Continuing Resolution, which could result in a curtailment or shut-down of federal agencies as their funding authority expires on October 1.

Geothermal PEIS Comment Period Closing September 19

The Department of the Interior and the U.S. Forest Service Draft Programmatic EIS for Geothermal Leasing (PGEIS), examining public lands in 11 Western states for geothermal leasing and development potential, is still open for comments until September 19.

GEA encourages everyone to review the PEIS documents and provide your comments to the BLM and U.S. Forest Service before the deadline. *For more information visit* http://www.blm.gov/wo/st/en/prog/energy/geothermal/geothermal_nationwide.html.

Majority Leader Reid Opens September Work Period for Congress

Senate Majority Leader Harry Reid opened the floor of the U.S. Senate for the September work period on September 8. He spoke of increasing efforts to pass comprehensive legislation that will address the nation’s energy challenges. Specifically, he named:

The Bingaman-Baucus amendment: opens up new areas of the Outer Continental shelf to drilling, extends renewable energy, energy efficiency and advanced vehicle tax incentives, repeals deepwater royalty relief, and enacts strong national energy efficiency building codes.

The Gang of 16 bill: opens up the eastern Gulf of Mexico to drilling, extends and expands important renewable energy and advanced, alternative fuel vehicle tax incentives, provides additional subsidies for building coal-to-liquid plants, and increases subsidies for nuclear power plants.

The Republican amendment, S.amdt 5108: opens up all coastal areas to drilling at the states’ requests (except for the eastern Gulf of Mexico, which stays closed until 2022), closes the London loophole, and requires index trader and swaps dealers to report their energy-commodity transactions.

Much of this would be paid for by eliminating oil companies’ subsidies, he said.

“It should be clear to all that we are offering Republicans multiple opportunities to vote for increased drilling, which they have chosen to make their marquee legislative priority and campaign issue. We offered

votes on drilling before the August recess, and Republicans rejected our offers. This time, I hope Republicans will put their votes where their mouths are to pass comprehensive legislation that includes drilling,” Reid said.

Reid’s statement went on to discuss passing an economic recovery package, the Highway Trust Fund, and a continuing resolution before Congress recesses.

See the statement as prepared for delivery at

<http://www6.lexisnexis.com/publisher/EndUser?Action=UserDisplayFullDocument&orgId=574&topicId=100007427&docId=1:848063796&start=6>.

Bingaman, Domenici Announce Energy Summit Details

On September 12 the Senate Energy Committee will host an all-day Senate-wide summit, open to the public and press, for the development of comprehensive legislation on energy challenges. Two panels made up of analysts, academics, and corporate leaders will offer their recommendations on an affordable energy future.

Sen. Bingaman told press, “This critical discussion will provide a broad spectrum of views on how to tackle the difficult energy challenges confronting our nation, including economic security, national security, global warming and ending our addiction to oil. It will be an excellent opportunity for Senators to listen, learn and contribute firsthand to this important and timely conversation.” Sen. Domenici added, “We have assembled a diverse panel that will bring many different perspectives to this debate. I look forward to a free-wheeling discussion that will bring about greater understanding of the issues confronting us and the best ways to address them.”

Panel 1: 9:30 a.m. to 12:00 p.m.

Professor John Deutch, Massachusetts Institute of Technology

Mr. Dan Reicher, Director, Climate Change and Energy Initiatives, Google.org

Dr. Daniel Yergin, Chairman, Cambridge Energy Research Associates

Mr. Frank Verrastro, Director, Energy and National Security Program, Center for Strategic and International Studies

Panel 2: 1:00 to 3:00 p.m.

Mr. John Krenicki, Vice Chairman, President and CEO, General Electric Energy Infrastructure

Mr. John Rowe, Chairman and CEO, Exelon Corporation

Mr. James Roberts, CEO, Foundation Coal Corporation

Mr. Douglas Steenland, President and CEO, Northwest Airlines

Mr. Gary Cohn, Co-President, Managing Director and COO, Goldman Sachs

Mr. Richard Wagoner, Chairman and CEO, General Motors

Mr. Marvin Odum, President, Shell Oil Company

See

http://energy.senate.gov/public/index.cfm?FuseAction=PressReleases.Detail&PressRelease_id=2ee96a70-193f-4c73-a901-b3e19486720e&Month=9&Year=2008&Party=0.

Presidential Candidate Obama's Convention Speech Comments on Energy

“And for the sake of our economy, our security, and the future of our planet, I will set a clear goal as President: In ten years, we will finally end our dependence on oil from the Middle East.

"Washington's been talking about our oil addiction for the last thirty years, and John McCain has been there for twenty-six of them. In that time, he's said no to higher fuel-efficiency standards for cars, no to investments in renewable energy, no to renewable fuels. And today, we import triple the amount of oil as the day that Senator McCain took office.

“Now is the time to end this addiction, and to understand that drilling is a stop-gap measure, not a long-term solution. Not even close.

“As President, I will tap our natural gas reserves, invest in clean coal technology, and find ways to safely harness nuclear power. I'll help our auto companies re-tool, so that the fuel-efficient cars of the future are built right here in America. I'll make it easier for the American people to afford these new cars. And I'll invest 150 billion dollars over the next decade in affordable, renewable sources of energy wind power and solar power and the next generation of biofuels; an investment that will lead to new industries and five million new jobs that pay well and can't ever be outsourced.”

See http://current.com/items/89247581_obama_convention_speech_on_energy.

Presidential Candidate McCain's Convention Speech Comments on Energy

“My fellow Americans, when I'm President, we're going to embark on the most ambitious national project in decades. We are going to stop sending \$700 billion a year to countries that don't like us very much. We will attack the problem on every front. We will produce more energy at home. We will drill new wells offshore, and we'll drill them now. We will build more nuclear power plants. We will develop clean coal technology. We will increase the use of wind, tide, solar and natural gas. We will encourage the development and use of flex fuel, hybrid and electric automobiles.

“Senator Obama thinks we can achieve energy independence without more drilling and without more nuclear power. But Americans know better than that. We must use all resources and develop all technologies necessary to rescue our economy from the damage caused by rising oil prices and to restore the health of our planet. It's an ambitious plan, but Americans are ambitious by nature, and we have faced greater challenges. It's time for us to show the world again how Americans lead. This great national cause will create millions of new jobs, many in industries that will be the engine of our future prosperity; jobs that will be there when your children enter the workforce. Today, the prospect of a better world remains within our reach. But we must see the threats to peace and liberty in our time clearly and face them, as Americans before us did, with confidence, wisdom and resolve.”

See <http://www.rightpundits.com/?p=1981>.

Alaska Governor Palin Addresses Energy Development, Climate Change

A question-and-answer article with Governor Sarah Palin on newsmax.com includes her views on energy and climate change.

Q. Speaking of energy, how much oil and gas does America really have?

A. We have billions and billions of barrels of oil and trillions of feet of natural gas. We have so much potential from tapping our resources here in Alaska. And we can do this with minimum environmental impact. We have a very pro-development president in President Bush, and yet he failed to push for opening up parts of Alaska to drilling through Congress — and a Republican-controlled Congress, I might add. I thought when we hit \$100 a barrel for oil it would have been a psychological barrier that would have caused Congress to reconsider, but they didn't. Now we are approaching \$200 a barrel. It's nonsense not to tap a safe domestic source of oil. I think Americans need to hold Congress accountable on this one.

Q. What is your take on global warming and how is it affecting our country?

A. A changing environment will affect Alaska more than any other state, because of our location. I'm not one though who would attribute it to being man-made.

See http://www.newsmax.com/headlines/sarah_palin_vp/2008/08/29/126139.html.

Clean Energy NOW Campaign Writes to Congress

The Clean Energy NOW campaign, made up of more than 175 companies and organizations, sent a letter to Congress asking for extension of federal investment and production tax credits for renewable energy and energy efficiency, and for this to be accomplished before the end of September.

The letter is addressed to Senators Harry Reid, Mitch McConnell, Max Baucus, and Charles Grassley. "Dear Senators," it begins, "As a broad coalition of businesses, construction companies, environmental organizations, investors, labor groups, nongovernmental organizations, trade associations and utilities, we are writing to convey our deep disappointment that Congress was unable to enact pivotally important extensions of clean energy tax credits before the August 2008 Congressional recess. While we are grateful for the extensive efforts to date to move this issue forward, with more than 100,000 jobs and billions of dollars in clean energy investment at risk, we respectfully but strongly urge each of you to look beyond the divisions that have to date prevented bipartisan progress on this critically important issue to craft legislation that will move rapidly forward to enactment in September."

"If these incentives are not extended immediately, we risk a major contraction in industries that have been a bright spot in the otherwise troubled economy," the letter says at one point.

The entire letter is available on the American Wind Energy Association's Web site. *Visit http://www.awea.org/cleanenergynow/pdf/Senate_Clean_Energy_Now_Coalition_Letter.pdf.*

Company News

AltaRock: Agreement Allows EGS Exploration in Northwest States

Press Release—September 2, [AltaRock Energy Finalizes Deal with Weyerhaeuser to Explore Engineered Geothermal System \(EGS\) Potential on 667,000 Acres in California, Oregon, and Washington](#)

AltaRock Energy Inc. announced today it had finalized agreements with Weyerhaeuser Company (NYSE:WY) and the Weyerhaeuser Company Foundation allowing it to explore the potential for developing geothermal projects in California, Oregon, and Washington. The geothermal rights, totaling nearly 667,000 acres, include approximately 25,400 acres in Northern California, 378,500 acres in south-central and western Oregon, and 263,000 acres in western Washington. AltaRock will be granted an exclusive option by Weyerhaeuser to assess the geothermal potential and can convert up to 40% of the acreage rights to geothermal development leases within two years.

AltaRock CEO Don O'Shei said, "We're pleased to be working with Weyerhaeuser. AltaRock is confident in its ability to put this land to an environmentally friendly use that benefits both companies and the region. These geothermal rights will provide us with a pipeline of development projects to showcase our innovative technology, and generate jobs and clean, renewable energy."

Weyerhaeuser said the agreements support its strategy of finding innovative ways to release the full potential of its land holdings.

The agreements will further AltaRock's goal to develop EGS in a cost-effective manner in order to provide baseload renewable energy to U.S. power markets, and to meet the renewable portfolio standard needs of utilities in states such as Washington, Oregon, California and Nevada.

Raser Technologies: Geothermal Project Planned in Indonesia

Raser Technologies and Indonesia Power will build a 110-MW geothermal power plant on the West Java island of Indonesia, according to redorbit.com. Indonesia Power, a Listrik Negara unit, will hold a 51%

stake; Raser will own 49%. The plant is expected to open in 2013, and power will be sold to Listrik Negara for 5.88 cents a kilowatt-hour for 30 years, according to the article.

See

http://www.redorbit.com/news/business/1542063/raser_technologies_to_build_indonesia_geothermal_plant/.

Western GeoPower: Tests Show 12.6 MW Capacity at New Geysers Wells

Press Release—September 2, First Two Geysers Wells Demonstrate 12.6 MW Initial Capacity

TSX Venture Exchange Trading Symbol: WGP – Western GeoPower Corp., a renewable energy development company, today announced that testing of well WGP-2 at the Company's Unit 1 project at The Geysers Geothermal Field in California has confirmed that the well is a producer, with an initial capacity of 2.6 MW (gross). Together with the flow rate of approximately 161,000 lb/hr (73,028 kg/hr) demonstrated by well WGP-1 as announced May 6, 2008, the first two wells together have an initial capacity of 203,500 lb/hr (92,306 kg/hr) of steam, representing 12.6 MW (gross). The wells will supply steam to the 35 MWe Western GeoPower Unit 1 plant, projected to start commercial operations in early 2010.

“We are pleased to report that the combined productivity of the initial two wells exceeds our earlier expectations,” said Kenneth MacLeod, President and Chief Executive Officer of Western GeoPower. “Current projections call for the drilling of four to six additional production wells and one injector well, scheduled for completion in late 2009.”

Renewable and Climate Change News

Geothermal Needs Attention from Presidential Candidates

An article on renewableenergyworld.com about geothermal energy's potential focused on the Massachusetts Institute of Technology report on enhanced geothermal systems (EGS) and on the role of geothermal energy in the current political atmosphere.

Relating to the 2008 presidential election, *Renewable Energy World* lamented the fact that neither Republican nor Democratic leaders have given much time to geothermal energy. “Now that energy topics are taking center stage in the presidential debate, it would be remiss of the candidates not to discuss the possibilities of geothermal energy,” the article said. “Like any burgeoning energy form, it must endure several impediments while also attracting a sizable investment to allow it to reach a critical mass.”

The article also covered ground source heat pumps. The U.S. Department of Energy pegs an average home installation at about US\$7,500, and homeowners can expect to recoup their investment in anywhere between two and ten years, according to the article.

See <http://www.renewableenergyworld.com/rea/news/story?id=53414>.

Science Organizations Ask Next President for Increased Climate Research

Eight of America's top scientific organizations are calling on the next administration to increase investment in research to better prepare the U.S. for the effects of climate change, according to ens-newswire.com. The group of scientists gave five major recommendations in the areas of observations, computing, research/modeling, societal relevance and leadership/management.

"Decision makers need information on how climate change will affect their local areas, but we are hampered by a lack of funding, observations, and computing power to provide information at this local level," said Jack Fellows, vice president of the University Corporation for Atmospheric Research (UCAR).

The eight organizations are the University Corporation for Atmospheric Research, the American Meteorological Society, the American Geophysical Union, the Weather Coalition, the Consortium of Universities for the Advancement of Hydrologic Science, the National Association of State Universities and Land-Grant Colleges, the Consortium for Ocean Leadership, and the Alliance for Earth Observations.

See <http://www.ens-newswire.com/ens/aug2008/2008-08-25-091.asp>.

State News

California: State Legislature Concludes 2008 Regular Session Without Major Action on RPS or Climate Change Legislation

~ by John McCaull, GEA's Western States Representative September 9, 2008

Mired in what is arguably the state's worst budget crisis since the early 1990s, the California Legislature called "Sine Die" on their 2007–2008 regular session on Labor Day. Hundreds of enrolled bills passed in the waning hours of session now sit on the Assembly and Senate desks with the Legislature unsure when to send them to the Governor. Governor Schwarzenegger has vowed not to sign any bills until a budget is passed, and the procedural experts are all scrambling to figure out what is the last possible day to transmit bills to the Governor without risking their failure. At issue are various state constitutional deadlines for approving (or vetoing) bills after session has recessed or adjourned.

Conspicuously absent from the bills awaiting the Governor's review are any major pieces of legislation on energy policy or climate change. Whether it's the state's renewable portfolio standard (RPS), rate reform proposals, or adoption of a greenhouse gas reduction strategy, the Legislature and the Governor appear to be caught between their desire to show leadership and a sense of urgency on ensuring the success of RPS and AB 32 mandates, and the strong pushback to let the agencies in charge do their job without too much "premature" direction or reform. For now, the 2008 session ended with most major topics still unresolved and the clock ticking.

Still trying to close a \$15 billion structural deficit, the Legislature has kept open several "special sessions" to deal with the budget and possibly some major water infrastructure bond funding. So, there is still the potential for last minute changes to make it into the budget (or budget trailer bills), but all expectations are that major issues related to energy policy, direct access, rate reform, climate change, and RPS enforcement and expansion are going to get deferred to the 2009–2010 session.

Here are some of the highlights (or stalled out efforts) of 2008:

Climate Change and Land Use: The biggest accomplishment of the 2008 session in the area of further implementation of AB 32 (the Global Warming Solutions Act of 2006) was the passage of [SB 375](#) by incoming Senate President Pro Tem Darrell Steinberg of Sacramento. The two main requirements of the bill are (1) the Air Resources Board must provide each air basin region with greenhouse gas emission reduction targets for the automobile and light truck sectors and (2) regional transportation plans to include a Sustainable Communities Strategy designed to achieve the targets for greenhouse gas emission reduction.

Renewable Portfolio Standard: For most of the session, there were discussions among the Governor, Senate leadership, and various stakeholders about putting the "33% by 2020" administrative RPS goal into statute. This would expand upon the existing statutory mandates ([SB 1078 \(2002\)](#) and [SB 107 \(2006\)](#)) which obligate California's investor-owned utilities (IOUs), energy service providers (ESPs), and community

choice aggregators (CCAs) to procure an additional 1% of retail sales per year from eligible renewable sources until 20% is reached, no later than 2010.

As the California Public Utilities Commission (CPUC) pointed out in their [July 2008 RPS Report](#) to the Legislature, “The RPS procurement process appears effective, but actual renewable development is slow.” Again, the tension between expanding the RPS to a much more aggressive 33% goal by 2020 was being openly questioned as going too far too fast. In other words, if we are going through a real world case study right now on the market, transmission and permitting barriers to getting from the current, (averaged) renewable procurement level of 12–14% to 20% in two years, how do we raise the bar for the next 12 years in an informed and thoughtful manner? As the CPUC stated, “California’s IOUs would need about 3,000 more new MW in next two years to be able to meet 20% in 2010.”

Various proposals actually made it into legislation in the waning days of session, but none were ultimately passed by the Legislature. It is worth noting that one legislative proposal, [AB 1489](#), authored by Assemblyman Lloyd Levine and Senator Don Perata did make it into print with a 33% by 2020 statutory mandate. In a troubling development, there was language in the bill that appeared to limit in-state renewable electricity generation facilities that would qualify for RPS-compliant purchases “to facilities that commence[d] initial operation after January 1, 2005.” GEA and other organizations are going to learn more about the support and reasoning behind this proposal.

The 2009 Legislative Line-Up: Who Will Lead on Energy Policy and Climate Change?

The 2009 debate over energy policy, RPS, and climate change will likely be led by incoming Senate President Pro Tem Darrell Steinberg, Senate Energy Chair Christine Kehoe, and a variety of Assembly members. Assemblyman Lloyd Levine is stepping down as Chair of the Assembly Utilities and Commerce Committee. There are apparently three Assembly members vying for the Chair’s seat: Assemblyman Felipe Fuentes, Assemblyman Hector De La Torre, and Assemblyman Paul Krekorian. All three legislators appear very interested in the RPS issue as well, and Assemblyman Krekorian has already convened a working group on 2009 RPS legislation. Also of interest is the return of Rod Wright to the State Senate. He will undoubtedly play a leading role on energy issues as he did in his previous terms in the Legislature.

There are a lot more issues on the 2009 “reform” table as well: the market price referent, direct access, power plant siting issues, tradable renewable energy credits, carbon taxes, rate reform for IOU’s, and a host of related issues. We will continue to cover the Legislature during their fall recess, and report on what legislative proposals appear to be developing for 2009.

New Mexico: Governor Richardson Announces Lightning Dock Plant

Press Release—August 22, [Governor Bill Richardson Announces First Geothermal Plant of Its Kind in New Mexico](#)

Governor Richardson and Raser Technology Chairman Kraig Higginson announced that Raser Technologies will begin the construction phase of the first commercial geothermal power plant in New Mexico. The Lightning Dock Geothermal project will be constructed near Lordsburg. Phase One of Raser’s project will include 10 MW—enough to power about 8,000 homes. Phase Two will expand the plant to 20 to 25 MW, which is enough to power 15 to 20,000 homes.

“In the clean energy state of New Mexico we are working hard to bring more and more renewable energy online,” said Governor Richardson. “Our state has already shown leadership in developing wind and solar energy technology, now we are proud to be one of the first states to deploy new technology by Raser that will help unlock our geothermal resources for power production without damaging our environment.”

Raser will be constructing their geothermal plant in approximately 6 months, which is a fraction of the usual construction and setup time. Typical geothermal plants can take 3–5 years to construct. Construction of the plant in Southern New Mexico will create 120 jobs followed by high paying jobs to operate the plant.

“We believe that the completion of this renewable energy plant over the next several months will mark the beginning of an expanding role for geothermal power in our nation’s energy future,” said Dick Clayton, Executive Vice President for Raser Technologies.

Raser’s geothermal technology, developed by UTC Power, emits no air pollution or greenhouse gases, while providing 24-7 baseload power.

The state of New Mexico has taken the lead in designing greenhouse gas cap-and-trade programs and Renewable Portfolio Standards. And in the west, New Mexico helped found the Western Climate Initiative, which is designing a robust greenhouse gas cap-and-trade program. New Mexico has established a series of policies and tax incentives to attract clean tech companies. These include the renewable energy production tax credit, an RPS standard of 20% by 2020, the advanced energy tax credit, and the job training incentive program.

See <http://www.governor.state.nm.us/press.php?id=923>.

Oregon: Newberry Geothermal Project Notice of Intent Submitted

Newberry Geothermal Holdings LLC has submitted a Notice of Intent (NOI) to apply for a Site Certificate for the proposed Newberry Geothermal Project. The project would include geothermal fluid extracted from geothermal production wells located near each generation unit. A 230-kilovolt, 12-mile transmission line would carry power from the project to a Bonneville Power Administration (BPA) substation near La Pine.

A public meeting about the project will be held on September 18 at the Deschutes County Services Center. The public may send comments up until September 30. With comments or questions, contact the Department’s project officer: John G. White, Oregon Department of Energy, 625 Marion Street NE, Salem, OR 97301-3742, Telephone: 503-378-3194 Toll-Free: 800-221-8035 (in-state only) Fax: 503-373-7806 E-mail: john.white@state.or.us.

The NOI is available at <http://www.oregon.gov/ENERGY/SITING/announce.shtml>.

International News

Australia: Geothermal Developer Joins Energy Market Review Group

Press Release—September 8, [Geothermal Energy Expert Appointed To Key Australian Energy Markets Review Committee](#)

Terry Kallis – Managing Director of the advanced Adelaide-based geothermal developer, Petratherm Limited (ASX: “PTR”) – has been appointed to the Stakeholder Advisory Committee of the Australian Energy Market Commission’s (AEMC) Review of Australia’s Energy Markets. The committee has been charged with conducting a comprehensive review of the Federal Government’s Energy Market Framework following new policies developed to combat the effects of climate change.

“The review will assess how the national electricity and gas market frameworks will operate in light of the Federal Government’s climate change policies and renewable energy targets,” Kallis said. “The fact that the AEMC has seen fit to appoint a representative of the geothermal sector demonstrates just how seriously the Government is taking geothermal power as a critical component of the country’s long-term base-load energy mix,” he said.

A former CFO of ETSA Corporation, Kallis has broad experience in the Australian energy market, having worked in the development of coal, gas and wind power projects, before taking up his current geothermal industry role. Kallis serves as Deputy Chairman of AGEA and is leading the Association’s National

Electricity Market Policy Committee, which is determining the geothermal energy industry's policy position on changes to the energy markets.

Petratherm's advanced Paralana Geothermal Project in the northern Flinders Ranges is due to begin producing Australia's first commercial supply of geothermal electricity when it starts providing power to the Beverley uranium mine in 2010.

Over the next 12 months, the AEMC review will assess the potential impacts of the Government's Carbon Pollution Reduction Scheme (CPRS) and 2020 Renewable Energy Target (RET) on Australia's energy market frameworks, in order to recommend amendments to federal laws, rules and regulations to ensure the efficient and reliable operation of energy markets.

Kallis' appointment to the Advisory Committee comes at a time when the AGEA is developing its own policy positions on the CPRS and the RET, as well as the Garnaut Climate Change Review, the Renewable Energy Fund, and other legislation and regulations governing geothermal energy.

Japan: Government Considering Potential for New Geothermal Development

Yomiuri.co.jp has been running a multi-part series on geothermal energy in Japan. Recently, Japan has seen growing interest in geothermal. With fossil fuel consumption rising rapidly, the Economy, Trade and Industry Ministry has been working out measures to back geothermal projects, the article said.

Japan has 18 geothermal power generation facilities, but nothing new has been constructed since 2000. Electricity produced by these plants accounts for no more than 0.2% of the nation's power consumption, according to the article. Lester Brown, president of the Earth Policy Institute, recently visited Japan to deliver a lecture on geothermal energy potential, in which he confirmed Japan's potential as a geothermally energy-rich country. Medipolis Ibusuki, a hot spring with a cancer-treating facility, found success in a direct-use application for powering radiation therapy for its patients.

Part of the reaction from residents has been concern over turning the culturally significant hot springs into geothermal power plant facilities. Some 1,100 residents of Kusatsumachi, Gunma Prefecture held a protest rally in late July. But Hirofumi Muraoka, chief of a geothermal energy study group of the National Institute of Advanced Industrial Science and Technology, hopes to soothe their fears. "I wish to make the system a breakthrough for resolving disputes between hot spring resort residents and advocates of geothermal energy," Muraoka told press.

See <http://www.yomiuri.co.jp/dy/business/20080830TDY04303.htm> and <http://www.yomiuri.co.jp/dy/national/20080831TDY03103.htm>.

Netherlands: Island of Terschelling May Develop Geothermal

The island of Terschelling in the Wadden Sea is looking into developing geothermal energy, according to dutchnews.nl. A local entrepreneur, Jenö Obendorfer, claims that a seismic survey in the 1960s established the existence of a volcano millions of years ago, leaving a large reservoir. This could make the island energy self-sufficient. This would be the first geothermal plant in the country

See http://www.dutchnews.nl/news/archives/2008/09/terschelling_looks_for_geother.php.

Nevis: West Indies Power Wells Could Produce Over 100 MW

The West Indies Power Nevis 2 geothermal well has reached commercial heat temperatures, according to sunstkitts.com. This is in addition to the Nevis 1 well reservoir found in June. Kerry McDonald, CEO of West Indies Power Holdings B.V. said, "With this discovery, the geothermal resource on Nevis can

produce well over 100 MW.” West Indies Power Nevis Ltd. will begin drilling a third well 1.38 miles south of Nevis 2.

See

<http://sunstkitts.com/paper/?asknw=view&asknw=view.view&sun=494418078207132005&an=284800099309052008&ac=Local>.

New Zealand: Kawerau Plant Finished Ahead of Schedule

Kawerau, the new 100-MW geothermal power plant from Mighty River Power, is now operational a month ahead of schedule, according to voxy.co.nz. It is the largest geothermal project in New Zealand in 20 years. The plant will meet one-third of residential and industrial demand in the Eastern Bay of Plenty region, and will officially open in November.

"Now that the plant is fully up and running we are pleased to say that during the testing phases we were able to consistently generate above the 90 MW originally anticipated," Chief Executive Doug Heffernan told press. "This result is a tribute to the more than 200 local contractors and tradespeople who have worked with us over the last 19 months. It has been a tremendous community project and we share their pride in helping create a plant that expands the sustainable use of the geothermal resource in the region."

See <http://www.voxy.co.nz/business/mighty-river-power039s-kawerau-power-station-now-fully-operational/5/2457>.

New Zealand: Contact Energy Broadening Portfolio, Focusing on Renewables

An article on nzherald.co.nz discussed New Zealand's Contact Energy company, which has \$3 billion plans to broaden its generation portfolio. With recent problems meeting electricity demand, as well as facing high gas prices, the company now has 1400 MW under various stages of development. This includes a focus on renewable resources.

In geothermal, the company has seen benefits from the Ohaaki steam field, and is also seeing the success of Mighty River Power's extensive projects.

See http://www.nzherald.co.nz/section/3/story.cfm?c_id=3&objectid=10529942.

Philippines: Energy Official Says Negros Can't Afford Production Delay

The power situation in Negros will be critical by 2009 or 2010, according to visayandailystar.com. Negrenses cannot afford to further delay production of geothermal power at the Mt. Kanlaon buffer zone, an area that has raised much anti-development concern, Director Antonio Labios of the Department of Energy Visayas Field Office told press.

Labios also inspected the Energy Development Corp.'s Northern Negros Geothermal Production Field, where a road through the buffer zone is being built for geothermal development, and Department of Environment and Natural Resources requirement are being met by the company. The plant has a capacity of 49 MW and could produce 15–20 MW by early next year, the article said.

See <http://www.visayandailystar.com/2008/September/04/topstory1.htm>.

Notices and Employment Opportunities

GEA Board Nominations Open (Due September 9)

GEA Members are invited to nominate individuals to stand for election to the GEA Board of Directors. Four elected seats will be voted on at the GEA Annual Members Meeting on October 5 in Reno, Nevada.

The Board has appointed a nominating committee composed of Ann Robertson-Tait (art@geothermex.com), John Pritchett (john.w.pritchett@saic.com), and Joe Greco (jgreco@terra-genpower.com), who will be meeting next week to prepare a slate of nominees for election to the Board. Members who wish to nominate a candidate can contact Karl Gawell, GEA's Executive Director, by email at karl@geo-energy.org, or any of the members of the nominating committee by email as noted above.

Nominations need to be received by Tuesday, September 9, 2008.

Employment: Senior Geologist, VP Exploration, Sierra Geothermal

Responsibilities: design and manage exploration programs, lead new project generation, prepare and manage budgets, develop geological and resource models, site exploration and production/injection wells, manage and build the geological team

Requirements: M.Sc. Geology professional certification status, over 10 years proven experience in exploration & development of geothermal resources preferred, oil & gas or mining background will be considered, strong structural understanding, strong geophysical and geological interpretive skills, strong computer skills and familiarity with 3D software, good multitask management and reporting skills

Location: Vancouver, BC with expected travel to the United States and project sites

Please send resumes to Chris@redfishtech.com.

Nominations for Platt Global Energy Awards (Due September 12)

2008 marks the tenth birthday of the Platts Global Energy Awards—ten years in which the Awards have grown in stature, evolved in quality, and come to be recognized by the energy industry at large as the hallmarks of excellence, the prizes everyone wants to win. The number of awards has grown steadily over the past ten years, from around fourteen annual awards to eighteen today.

Nominations are due before September 12, 2008. Nominate today at www.globalenergyawards.com.

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

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

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

Employment: Vice President of Business Development, Ormat Technologies

Ormat Technologies has an immediate opening for a full time Vice President of Business Development located in Reno, NV. The ideal candidate will 10+ years in sales, marketing and business development in the energy/renewables industry.

Position Title: Vice President, Business Development; Department: Business Development; Location: Corporate Office; Reports to: President/COO; Position Summary: The Vice President of Business Development is responsible for overseeing the Business Development function in North America.

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

Other Responsibilities: Provide ongoing training and development to business development team to obtain a high level of performance

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

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

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

Employment: Sales Manager, Ormat Technologies

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

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

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

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

Education, Experience and Skills Required: Minimum of 10 years experience in a similar position; Bachelor's degree in Marketing or related field or equivalent experience and/or technical qualifications relevant to the geothermal applications, as well as Engineering and Construction; Experience in marketing

or application engineering; Experience working directly with customers in a sales organization with strong communication and interpersonal skills.

Physical Requirements: Must be able to travel regularly

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

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

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

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

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

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

“The Investor’s Guide to Geothermal Energy” provides a comprehensive and market driven insight into all important aspects of geothermal business and project development. It serves as a practical reference tool for the financial community, for stakeholders from the industry, and for novices to geothermal energy. Each project stage, from site identification, exploration, site development, power plant construction to operation and maintenance is looked at from an investor’s point of view, including capital costs & cost affecting factors, financing instruments & incentives, associated risks & risk mitigation tools, geoscientific & technology barriers and solutions, and investment opportunities and market drivers.

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

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

Employment: Engineering Manager, Western GeoPower, Inc.

Western GeoPower, Inc. (WGPI) has an immediate opening for a full time Engineering Manager to be located in our Healdsburg, CA office. WGPI is looking for a flexible and entrepreneurial person who can assist in a variety of tasks to grow WGPI into world class renewable power developer/operator. The ideal candidate will possess 5+ years of technical design, project engineering and operational support in the geothermal power industry. Must have geothermal power and experience working in the Geysers and

Salton Sea or similar geothermal field. H2S abatement strategies, steam quality, production/injection systems and plant operations are all a plus.

The Engineering Manager will report to the Operations Manager and be responsible for the following key tasks: Technical support for Project Permitting; Technical oversight of the Detailed Engineering Contract (power plant and gathering system); Evaluation of Value Engineering and Technical Betterment Projects; Technical support for Project Construction issues (technical support for WGP's Construction Manager); Technical support for New Development Projects; Technical support for future Plant Operations, Reporting, Plant Optimization, Environmental; Compliance, Safety and Training

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

Requests for Proposals (RFPs)

Request for Comments, Australian Draft Geothermal Industry Development Framework (September 12)

The Australian Federal Government's Draft Geothermal Industry Development Framework (GIDF) was released on 20 August 2008. Comments on the draft Framework can be provided by email to Energy.Profiles@ret.gov.au. Comments are due by Friday 12 September 2008. For background and to download the draft GIDF, visit http://www.ret.gov.au/energy/clean_energy_technologies/energy_technology_framework_and_roadmaps/geothermal_industry_development_framework_and_technology_roadmap/Pages/GeothermalIndustryDevelopmentandTechnologyRoadmap.aspx.

Request for Renewable Energy, Ohio (September 12)

Dayton Power & Light seeks a minimum of 38,000 MWh of eligible renewable energy resources and/or renewable energy certificates (RECs) to meet Ohio RPS requirements. Preference will be given to Ohio-based resources. Responses due 9/12/08.

For more info, contact Shirish Desai at Shirish.desai@dplinc.com or go to <http://www.dplinc.com/>. (Green Power Network 8/15/08)

Request for Renewable Energy, Northern California Power Agency (September 23)

The Northern California Power Agency (NCPA) is accepting proposals for up to 58MW of Eligible Renewable Resources, Landfill Gas supplies, and other renewable energy sources to meet the expected long-term electric power needs of its Members.

This RFP is limited to those parties who currently have rights in, own, or propose to develop Eligible Renewable Resource electric generating facilities, own and operate landfill facilities, or have rights to other renewable energy sources which NCPA may use to develop an Eligible Renewable Resource electric generating facility. Responses due 9/23/08.

For more info, contact Dana Griffith at Dana.Griffith@NCPA.com. (Green Power Network 8/15/08)

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

The U.S. Department of Energy requests proposals for Energy Frontier Research Centers (EFRCs) to accelerate the rate of scientific breakthroughs needed to create advanced energy technologies for the 21st

century. The EFRCs will pursue the fundamental understanding necessary to meet the global need for abundant, clean, and economical energy. Through this initiative, DOE seeks to bring together the skills and talents of multiple investigators to enable fundamental research of a scope and complexity that would not be possible with the standard individual investigator or small group research project. \$500 million expected to be available, up to 50 awards anticipated.

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

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

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

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

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

The RFP is seeking multiple proposals for wind, solar, geothermal and biofuel energy resources. PNM is seeking renewable energy sources that can be available beginning in 2009 and no later than 2011. A prebid conference will be held at the PNM downtown office in Albuquerque and via teleconference on July 30, 2008. RFP Responses due October 15. All inquiries and other communications relating in any manner to this RFP must be directed in writing, by mail, facsimile or email, to the PNM RFP administrator. The questions and corresponding answers (without identification of the party asking the questions) will be emailed to all parties that have provided a Notification of Intent to Respond (“Notification”) to this RFP.

Contact RFP Administrator: Public Service Company of New Mexico, Alvarado Square MS 1006, Albuquerque, N.M., 87158-0001 Phone: 505-241-4700; Fax: 505-241-2202; Email: renewableRFP@pnm.com The entire RFP can be found at http://www.pnm.com/rfp/renewables/docs/rfp_renewables.pdf.

RFP for Industrial Energy Efficiency Programs, U.S. DOE (October 16)

The U.S. Department of Energy requests proposals for Save Energy Now: State, Regional and Local Delivery. This initiative will support the development and delivery of industrial energy efficiency programs implemented at the local, state and/or regional level. \$9.5 million expected to be available, up to 16 awards anticipated. State and Territorial Energy Offices must be the lead applicant. A Letter of Intent is requested but not required and is due 9/15/08.

Final proposals due 10/16/08. For more info, contact Margo Gorin at ITP_State@go.doe.gov or go to <https://e-center.doe.gov/iips/faopor.nsf/UNID/6033DD40BB42CF468525749600668DC3?OpenDocument>. Refer to Sol# DE-PS36-08GO98033. (Grants.gov 7/30/08)

RFP for Global Climate Change Modeling and Early Career Projects, U.S. EPA (October 21)

The U.S. Environmental Protection Agency requests proposals, under a joint solicitation, for 1) Adaptation for Future Air Quality Analysis and Decision Support Tools in Light of Global Change Impacts and Mitigation, and 2) Early Career Projects. Through this initiative, EPA seeks the development of modeling capability to provide: Insights to the air quality planning community; a capability to account for uncertainty and variability in the projections of a future world that includes global change and; an evaluation of the robustness of predictions made with improved tools when applied to relevant scientific and policy questions. This research must link from local to the global scale and back for predictions out to 40 years into the future. Additionally, this initiative includes the opportunity for early career projects. \$5 million expected to be available, up to 7 awards anticipated. Responses due 10/21/08.

For more info, contact Bryan Bloomer at bloomer.bryan@epa.gov or go to http://es.epa.gov/ncer/rfa/2008/2008_star_adaptation.html. Refer to Sol# EPA-G2008-STAR-J1 and EPA-G2008-STAR-J2. (Grants.gov 7/22/08)

RFP for Global Climate Change Education, NASA (October 24)

The National Aeronautics and Space Administration (NASA) requests proposals for the Global Climate Change Education (GCCE) project. The GCCE is designed to improve the quality of global climate change and Earth system science education at the elementary, secondary, and undergraduate levels. Funded projects are expected to take advantage of NASA's contributions in climate science to enhance students' academic experiences and/or to improve educators' abilities to engage and stimulate their students. Up to 24 awards anticipated, award range \$150K to \$500K. A Notice of Intent is required and is due 8/29/08, final proposals due 10/24/08.

For more info, contact Diane Clayton at diane.clayton-1@nasa.gov or go to <http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId=%7bA0A2FB8B-E96B-7579-5530-2709EE450F3F%7d&path=open>. Refer to Sol# NNH08ZNE005N. (Grants.gov 7/18/08)

Request for Renewable Energy, Massachusetts (December 1)

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

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

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

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

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

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

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

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

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

With questions, email the LGPO at lgprogram@hq.doe.gov. Please include in the subject line “RETDEE Solicitation Question.” Completed applications must be submitted no later than 11:59 pm (ET) on Wednesday, December 31, 2008. Full announcement can be found at <http://www.lgprogram.energy.gov/keydocs.html>.

Upcoming Events

Geothermal Heating and Cooling Seminars, September 8–11 (Washington, D.C.)

HeatSpring Energy holds geothermal seminars for building professionals.

Geothermal Heating and Cooling Systems:

- o September 8, Introduction to Geothermal Systems (8 hours)
- o September 9, Design Overview (Residential focus) (8 hours)
- o September 10, Commercial Closed Loop Design (8 hours)
- o September 11, Commercial Open Loop Design (8 hours)

See https://www.heatspring.com/catalog_.php.

Arizona Geothermal Working Group Meeting, September 19 (Tucson, AZ)

Join us at the Reid Park Zoo's new Platinum LEED facility (1030 South Randolph Way) to learn about the latest local and national activities in geothermal energy development. Agenda topics will include an assessment of Arizona's carbon sequestration potential, Western Governors' Association's Western Renewable Energy Zone Initiative, project updates and more!

10:00 – 10:30 a.m. Meeting Participant Introductions

10:30 – 10:45a.m. Residential and Commercial Incentive Program, Mark Romito, Tucson Electric Power Company: A summary of TEP's renewable energy rebate program, status of funding and opportunities for geothermal will be presented.

10:45 – 11:00 a.m. Geothermal Leasing on Federal Lands and BLM’s Geothermal Programmatic Environmental Impact Statement (PEIS) Update, Jim Witcher, Witcher and Associates: A review of the BLM leasing process to access geothermal resources of federal lands and a status report on the Draft PEIS.
11:00 – 11:30 a.m. Arizona’s Carbon Sequestration Potential, Steven Rauzi, Arizona Geological Survey: A discussion on a recent evaluation of Arizona potential geological sequestration areas.
11:30 – 12:00 Identifying Renewable Energy Zones, Amanda Ormond, Ormond Group: State and regional efforts are underway to identify areas throughout the West with large amounts of renewable energy. These zones are being evaluated to help determine the placement and amount of transmission needed to bring remove renewable energy generation to market. Amanda will discuss the Western Zone Initiative of the Western Governors’ Association and the Southwest Area Transmission effort.
12:00 – 1:00 p.m. Networking Lunch Sponsored by GeothermEx Inc
1:00 – 1:30 p.m. Strategic Plan for Arizona, Paul Morgan, Northern Arizona University: Dr. Morgan will lead a discussion to identify the legislative, economic, and educational barriers and opportunities to development.
1:30 – 2:00 p.m. Deep Geothermal Potential for Small-Scale Power Generation in the Arizona Basin and Range, Jim Witcher, Witcher and Associates: Jim Witcher will discuss the area’s geology, prospects and give a case study of potential economics.

Lunch is being provided for participants. To reserve your place, please RSVP to Pat Ponce by Wednesday, September 17 at patricia.ponce@nau.edu or by calling 928-523-2380.

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

Seeking participants from all sectors of renewable energy. On the eve of the elections, one hundred Climate Riders will cycle from New York City to Washington DC to make a powerful statement about the need for renewable energy legislation and climate change awareness. Join fellow Climate Riders for a beautiful ride that begins in the urban landscape of Manhattan, then meanders through rural New Jersey, Pennsylvania, and the equine estates of Maryland to the ride finale in Washington, DC. Along the way, expert speakers meet our cyclists each evening to discuss climate science, green technology, and how to reduce our carbon footprint. Meet people committed to resolving the climate crisis, make your voice heard, and benefit an important cause—all on an unforgettable vacation!

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

Featured Event: GEA Geothermal Issues and Outlook Workshop, October 4 (Reno, NV)

A day-long series of expert presentations and panel discussions examining the status, outlook and issues specific to geothermal energy raised by both federal and state initiatives in each of these topic areas:

- 2009 Federal Outlook for Climate Change, Renewable Energy and Geothermal
- State and Regional Transmission Initiatives and Policies
- Federal Tax Incentives: extensions and emerging proposals
- Federal and State Leasing and Permitting
- Geothermal Resource Assessment, Research and Technology Development
- RPS Legislation and Regulations

Presentations and Panels on these critical subjects will be made by leading state and national experts.

8:30 am Light Breakfast/Coffee and Networking

- 9:00 Transmission: An overview of current initiatives in California and the West to expand transmission to geothermal and other renewable energy areas
- o Ryan Pletke, Black and Veatch (transmission RETI and WGA)
 - o John McCaull, GEA Western States Representative
 - o Dan Schochet, Chairman of the Nevada Governor's Renewable Energy Transmission Access Advisory Committee
- 10:00 Tax Incentives: A review of the status of federal and state tax initiatives for geothermal power, and a discussion of future proposals and prospects for further action in a new Congress
- o Jonathan Weisgall, MidAmerican Energy
 - o Matt Ferguson, Principal & Practice Leader of National Renewable Energy, Reznick Group, P.C.
 - o Curt Rich, Van Ness Feldman*
- 11:00 Climate Change: State and Federal climate change laws and legislation, and what they may mean for geothermal energy.
- o Bob Epstein, Environmental Entrepreneurs (climate change legislation, ETAAC member)
 - o Ann Notthoff, NRDC*
 - o Sheridan J. Pauker, Wilson, Sonsini, Goodrich and Rosati
 - o Karl Gawell, GEA
- Noon: Lunch -- Networking
- 1:00 Resource Assessment and Research: Ongoing and proposed efforts to advance geothermal resource assessment and federal and state research programs are reviewed and discussed.
- o Dr. Colin Williams, USGS
 - o Ed Wall, U.S. DOE
 - o William Glassley, CGEC, formerly CEC
 - o Lisa Shevenell, UNR Great Basin Center
- 2:00 State and Federal RPS Initiatives: Prospects and proposals for federal and state renewable portfolio standards are reviewed, and their potential importance for and impact upon geothermal projects is discussed.
- o V. John White, CEERT*
 - o Jan-Smutney Jones, IEP
 - o Karl Gawell/John McCaull, GEA
 - o John A. McKinsey, Stoel Rives
- 3:00 Federal and State Leasing and Permitting: An overview of the status of leasing on BLM and Forest Service lands, state and private land leasing issues, and a discussion of permitting and leasing issues, answers and new proposals.
- Part I
- o Kermit Witherbee, BLM
 - o Tracy Parker, U.S. Forest Service
 - o Additional BLM/FS Representatives
- Part II
- o Paula Blaydes, Western GeoPower
 - o Doug Glaspey or Roy Mink, U.S. Geothermal
 - o Jerry Fish (or Chris Heaps), Stoel Rives

4:30 pm Adjourn

* *invited*

Fee: \$150 non-members, \$75 GEA-GRC members or government/non-profit employees (fee includes refreshments, light breakfast and lunch.) Participation will be limited to 150 people.

For information or to register, go to www.geo-energy.org, or contact Daniela Stratulat at 202-454-5241 or email Daniela@geo-energy.org.

Featured Event: GRC Workshop, Introduction to Geothermal Energy, October 4 (Reno, NV)

Saturday, October 4, 10:00–1:00 p.m., Tuscany 11, Peppermill Resort, Reno, and visit to geothermal power plant, 1:30–5:00 p.m.

The Geothermal Resources Council (GRC) will sponsor an Introduction to Geothermal Energy Workshop, presented by the Geothermal Education Office in conjunction with the 2008 GRC Annual Meeting. This free and fun event will take place on Saturday, October 4, 2008, in the Tuscany 11 room, at the Peppermill Resort in Reno. The workshop is designed for K-12 classroom teachers and other educators but is open to anyone interested in learning about geothermal energy.

This program will feature slide presentations by seasoned geothermal speakers who will cover geology, exploration, drilling, generation of electricity, low-temperature uses of geothermal energy, and other related topics. Free curricular materials will be given to teachers.

After the formal 3-hour program there will be a field trip to a local geothermal power plant (Ormat's Steamboat). Only a limited number can attend; priority for field trip participation will be given to classroom teachers. The bus for Steamboat will leave Peppermill at 1:30 p.m.

Pre-registration is required for the workshop and for the field trip.

REGISTRATION DEADLINE - Thursday, September 25. A registration form (pdf), is attached. Please fax completed registration form to 415-435-7737. The registration form will also be available soon at www.geothermal.marin.org. If you would like to bring a very small group of mature high school students to the workshop or have questions, please contact Marilyn Nemzer at the Geothermal Education Office, geo@marin.org.

Featured Event: GEA Annual Members Meeting, October 5 (Reno, NV)

All GEA Members are invited to The 2008 Annual Members Meeting of the Geothermal Energy Association. It will be held at Noon on Sunday, October 5, 2008 at the Peppermill Resort and Hotel in Reno, Nevada. The meeting will review GEA activities in the past year, elect members to the Board of Directors, and discuss priorities for the year ahead. For more information about the meeting, contact Karl Gawell by email at karl@geo-energy.org, or by phone at 202-454-5264.

Featured Event: Geothermal Energy 2008 Conference and Expo (formerly GEA Trade Show and GRC Annual Meetings), October 5–8 (Reno, NV)

GEA's annual Geothermal Energy Expo (formerly known as GEA Trade Show) brings out the geothermal community for a few days of everything geothermal. Come mingle with the geothermal community in one hall while viewing the world's largest gathering of vendors providing support for geothermal resource exploration, characterization, development, production, and management. Expo exhibitors have a unique opportunity to showcase their products, services, and state of the art technologies to the geothermal community. **Please note, booth space for the Expo is sold out.

For more information please visit our Expo website: http://www.geo-energy.org/2008_ts/index.htm To register to attend the Expo please fill out online application at http://www.geo-energy.org/2008_ts/visitors.html. The cost for visitors to the Expo Hall will be \$35 per person per day. Payment will be due on site.

Sponsorship Opportunities: http://www.geo-energy.org/2008_ts/spn_opprtn.html and http://www.geo-energy.org/2008_ts/spn_ts.html. Current Sponsorship List: http://www.geo-energy.org/2008_ts/spn_list.html

In tandem with the Geothermal Energy Expo is the Geothermal Energy Conferences hosted by the Geothermal Resources Council (GRC). GRC Conference participants interface with exhibitors to learn about innovative developments and applications, while exchanging valuable ideas. For more information about the Geothermal Energy Conferences, please visit GRC's website at: www.geothermal.org.

With any questions, please contact Kathy Kent at 202.454.5263, email: kathy@geo-energy.org.

**GEA and sponsor Oski Energy, a U.S. Renewables Group Company, are holding a Texas Hold 'Em Poker Tournament on Tuesday, October 7 as part of our Geothermal Energy 2008 Conference and Expo festivities!! Poker is America's most popular card game and we are bringing poker to our participants. With this Texas Hold 'Em tournament, you will be playing against others in the geothermal community. Show your coworkers, other geothermal enthusiasts and even your company's competitors what your poker game is made of!! Everyone is welcome to join the game!! Entry fee will be \$120 which you will need to pay in cash, the day of the tournament to the Peppermill. \$100 of this entry fee will go into the prize pool, while the additional \$20 will cover dealer costs. A cash bar will be available. For more information on how the tournament will be played, feel free to visit our website at: http://www.geo-energy.org/2008_ts/events.html. If you are interested in joining this tournament, please send an email to Kathy Kent at kathy@geo-energy.org indicating the name and contact email and phone number that you can be reached at while in Reno for the interested player. Registration will be available on site. Payment will be due on site at the Peppermill.

Fast Tracking Energy Projects on Federal Lands, October 7 (Reno, NV)

A one-day seminar on keys to fast tracking energy projects on federal lands featuring speakers from EMPSi and federal agencies. This seminar will provide tools and techniques to achieve environmental compliance on your schedule. There is a registration discount for GEA members and attendees (enter "geothermal" in the "Code" field on the first page to receive a \$100 discount). Additional information can be found at: www.EMPSi.com or contact John King, EMPSi (415-544-0440).

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

The NZ Geothermal Workshop will be held November 11–12 and the New Zealand Geothermal Association Seminar 2008 will be held on November 13. Both events will take place at the Great Lake Centre in Taupo, New Zealand. The events mark the 30th anniversary of the Geothermal Workshop, which is New Zealand's longest running energy conference. This year's workshop will celebrate New Zealand's people and past achievements as well as the exciting future of geothermal energy use around the world. Particular focus will be on New Zealand's contributions to the research, education, and development of geothermal energy.

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

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

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

The XVI Annual Congress of the Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana) will take place in the city of Morelia, Mexico, on November 14. The AGM is calling for papers related to geothermics. Please send abstracts to Luis Gutiérrez-Negrín (luis.gutierrez@geotermia.org.mx)

before July 25. Ten to twelve papers will be selected for oral presentation during the congress. Papers and presentations can be in Spanish or English.

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

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

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

The United States Department of Energy's Edward J. Wall, of the DOE's Geothermal Technology Program Office, will keynote the Geothermal Finance & Investment Summit. The conference will look into geothermal developer perspectives, geothermal transmission, investment perspectives on geothermal energy and challenges faced in the geothermal energy community. This is a great opportunity to learn more about geothermal investment.

Many renewable energy project developers—and investors—are looking to the DOE for a range of issues. Mr. Wall is expected to provide answers and clarity to these market players. Interest in geothermal development has never been higher—evidenced by the record 400% increase in land lease prices garnered earlier this month at auction by the Bureau of Land Management—as everyone searches for the next big play in renewable energy. Mike Olson of the U.S. Department of Interior and Kermit Witherbee of the Department of Interior/Bureau of Land Management will also address the summit on issues of the backlog of land leases and the royalty framework. Both issues are considered critical to geothermal energy projects.

As an annual event, the Geothermal Finance & Investment Summit is one place where developers, investors, power purchasers, technology experts and other players are turning to find out where, when and what geothermal projects will happen in the coming year.

Also scheduled to appear:

- o Mike Marelli, Manager of Contract Origination & Analysis, Renewable & Alternative Power Department, Southern California Edison, and David Lewis, Director—Competitive Solicitations, Pacific Gas & Electric;
- o John C.S. Anderson, Senior Managing Director, John Hancock Financial Services, and Rohan Singh, Vice President, HSH Nordbank;
- o John Eber, Managing Director—Energy Investments, JPMorgan Capital Corp.; and Martin Torres, Associate, Morgan Stanley Capital Markets
- o Gary Thompson, President & CEO, Sierra Geothermal Power Corp.

Utah Geothermal Lease Sale, BLM, November 18

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

If you have questions regarding this notice, please call Judy Nordstrom at 801-539-4108; facsimile at 801-539-4200; write to attention at the address on this letterhead; or send electronic mail to judy_nordstrom@blm.gov. More information available at <http://www.blm.gov/ut/st/en/prog/energy/geothermal0.html>.

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

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

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

For more information and to register, contact Department of Geological Survey and Mines, Plot 21–29, Johnstone Road, P.O Box 9, Entebbe, Uganda. Phone: +256 712 812231, +256 712 835843, +256 773 129941. Fax: +256 414 320364. E-mail: argoC2@minerals.go.ug or bahati@minerals.go.ug.

RETECH Renewable Energy Technology Conference & Exhibition, February 25–27, 2009 (Las Vegas, NV)

RETECH 2009 is expected to be the largest all-renewables gathering in the U.S. in 2009, with an attendance of over 5,000 people. The event is planned to increase in scale in coming years to 10,000 attendees and 500 exhibitors, which will make it the largest event of its kind worldwide. Packed with a full-scale Trade Show with press conferences and product launches, an exciting six-track Business Conference, and RETECH Side Events, RETECH 2009 will offer educational and networking opportunities for a wide range of participants. RETECH is managed by ACORE and Partnering Organizations. RETECH 2009 will be held at the Las Vegas Convention Center in Las Vegas: 3150 Paradise Road, Las Vegas, NV 89109

Visit <http://www.retech2009.com/> for more information.

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

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 abstract-selected participants the recognition of a worldwide audience on sessions related to technology, markets, business strategies and policy covering the wind, solar, biomass, hydro, geothermal, ocean/tidal/wave, bio-power, biofuels hydrogen and fuel cell sectors. There has never been a better time to be a part of the exciting, ever-growing world of renewable energy!

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

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

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

CanGEA's also announces its corporate members website is up and running. Corporate members have access to job postings, committee information (progress, research), presentations, and business opportunities (international JVs, work up for bid, or other geothermal prospects). Updated library of links and pdfs of Canadian geothermal research papers and documents (from multiple resources), reserves (geothermal energy potential, estimates for Canada), and online advertising opportunities will soon be available.

Visit the Web site for information: <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