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GEA Weekly Update
May 11, 2009

National News

GEA Project Showcase Presents Geothermal Industry to DC Community

A standing-room-only audience at the Newseum in Washington, DC heard an outstanding program defining geothermal power and heating projects being launched across the United States. New geothermal power plants placed on line in recent months by Enel North America, Ormat, and Pratt & Whitney Power Systems were virtually toured by the crowd, as well as projects under development by Nevada Geothermal Power and the Oregon Institute of Technology. Other big names in the geothermal industry showing video footage included, ThermaSource, Inc., POWER Engineers, Western GeoPower, U.S. Navy's Geothermal Program, and Raser Technologies.

"The accelerated pace of geothermal development is stunning," one participant said.

A panel of leading experts reported that this was just the tip of the iceberg. Lisa Shevenell called recent USGS estimates of geothermal potential seriously flawed, and reported that Nevada alone could exceed

what USGS projected for the entire nation. "Projects already under development in Nevada could produce as much as 39% of the state's current power needs," she said.

SMU Laboratory expert Maria Richards reported new geothermal projects were moving forward in Texas, Louisiana and Mississippi. "There are great geothermal resources in Texas and the Southeast that companies are now moving forward to develop," she said.

Professor Jeff Tester, author of the 2006 study on the Future of Geothermal Energy, explained that the energy potential of geothermal is enormous. "Just a few percent of the potentially recoverable energy could meet our needs," he explained. Professor Tester and Dan Reicher of Google.org illustrated the eventual goal of producing energy using EGS, or engineered geothermal systems, and explained how current development and advanced technology represent a continuum of development.

Bernie Karl of Chena Hot Springs urged the crowd to make geothermal energy a priority for the sake of the nation and future generations. "We are addicted to energy imports, and for the sake of our children, we need to break the addiction," he said.

GEA's next workshop will be a U.S. Geothermal Finance and Development Workshop in Seattle, Washington on June 3.

DOE Releases Fiscal Year 2010 Budget Request; $50m Requested for Geothermal

The Department of Energy's budget request for FY2010 was released on May 7 and is available on the DOE Web site. The budget provides $50 million to the geothermal technologies program largely earmarked for EGS.

According to the budget document, the geothermal program's mission is to conduct RD&D to establish enhanced geothermal systems (EGS) as a major contributor to baseload electricity generation. The technologies developed by the program are expected to provide a new source of electricity that is clean, reliable, and cost competitive. The geothermal program will continue to focus on EGS. Complementary activities include a web-based, public database; international collaborative activities; investigations of low temperature geothermal opportunities; and support for geothermal workforce development.

The Sustainable Energy Coalition provided a very preliminary summary analysis of the overall budget. After a brief look at the overall spending in the DOE's 2010 budget request for $26.3 Billion, here are some observations:

- About 24% is for nuclear weapons activities – $6.4 billion
- 17% is for other nuclear defense activities such as naval reactors ($1 billion), nuclear non-proliferation ($2.14 billion), and activities, such as plutonium disposition, ($987) – Total $4.4 billion
- About 23% goes for cleaning up DOE nuclear sites – $6 billion
- About 18% goes for basic science research – $4.9 billion
- About 16% goes for energy supply, research and development, and other energy activities (i.e., FERC, EIA) -- $4.7 billion
- About 2% for department administration – $526 million
- Defense nuclear activities and DOE site cleanup make up 64% of Energy's total budget for FY 2010, while actual energy activities receive the smallest programmatic proportion

In terms of energy R&D:

- Nuclear energy receives 33% of the funds -- $1.56 Billion (including magnetic and inertial confinement fusion
- Fossil gets 13% – $617 million
- Energy conservation gets 12% – $564 million
- Alternative vehicles get 7% – $334 million
- Solar gets 6% – $320 million
- Biomass get 5% – $235 million

- Electricity delivery gets 4% – $208 million
- Geothermal gets 1% – $50 million

See http://www.cfo.doe.gov/budget/10budget/Start.htm.

House Subcommittee Defers Action on Climate and Renewable Energy Legislation

The House Subcommittee on Energy and the Environment had planned to begin its mark-up on "The American Clean Energy and Security Act of 2009," but full Committee Chairman Henry Waxman (D-CA) announced that the legislation would by-pass Subcommittee and be taken up by the full Energy and Commerce Committee in the near future. The delay also gave Chairman Waxman additional time to work on a consensus proposal to address energy and climate change. The Committee expects to complete action on the legislation by the end of May.

The House legislation is expected to include a national Renewable Energy Standard (RES). According to press reports, the draft should include a 20% national renewable energy standard to be reached by 2020, and will allow energy efficiency improvements to meet part of that goal.

The Senate Energy Committee is also preparing to act on national energy legislation, but is expected to take action following the House Energy Committee. The draft RES legislation on the Senate Committee's web site (http://energy.senate.gov/public/_files/END09012_xml.pdf) would require covered utilities to achieve 20% renewable production by 2020.

Secretary Salazar Pledges to Open Four New Renewable Energy Permitting Offices

Press Release—May 6, Secretary Salazar Pledges to Open Four Renewable Energy Permitting Offices, Create Renewable Energy Teams

CHICAGO - To expedite production of renewable energy on public lands while protecting land, water, and wildlife, Secretary of the Interior Ken Salazar today pledged to create four Renewable Energy Coordination Offices, one each in California, Nevada, Wyoming, and Arizona, along with smaller renewable energy teams in New Mexico, Idaho, Utah, Colorado and Oregon.

"At no time in our history has the need for a new energy policy been so urgent," Salazar told members of the American Wind Energy Association at the WINDPOWER 2009 Conference - the largest annual wind energy industry event in the United States.

"We import more than two-thirds of our oil, costing us hundreds of billions of dollars a year. Unemployment is at eight and a half percent. Carbon emissions are rising. Our national security is threatened. And countries like China and India are ready to cash in by leading the global clean energy economy."

"We must lead the clean energy revolution," Salazar said. "With millions of new jobs at stake, this is an opportunity America can't afford to miss."

The renewable energy offices and teams, which will cut red tape by expediting applications, processing, reviews and permitting of renewable energy projects, are one of several initiatives President Obama's has taken in his first 100 days "to open our doors to wise, responsible renewable energy production on our public lands," Salazar noted. Interior is investing $41 million through the President's economic recovery plan to facilitate a rapid and responsible move to large-scale production of renewables on Bureau of Land Management land.

There is strong interest in renewable energy projects from partners in the private sector and this investment will help Interior swiftly complete reviews on the most ready-to-go renewable energy projects. Interior's Bureau of Land Management has a backlog of some 200 solar energy applications and more than 25 wind

project applications in western states. Another 200 locations have been identified where applicants would like to begin site testing for future wind projects.

Interior also has resolved long-standing federal jurisdictional questions with the Federal Energy Regulatory Commission, enabling the Department to establish the final regulations to facilitate offshore renewable energy development. Companies with proposed projects finally have the certainty of a logical permitting process. Dozens of applications to build offshore wind farms, which were stacked up or stuck in red tape, can now move forward.

If the nation fully pursues its potential for wind energy on land and offshore, Salazar estimated, wind can generate as much as 20 percent of U.S. domestic electricity by 2030 and create a quarter-million jobs in the process. Salazar estimated that of the wind projects currently proposed on Bureau of Land Management lands, almost 1,400 megawatts of new capacity will be ready for construction by the end of 2010 - enough to power more than 400,000 homes. He also estimated that more than 6,000 megawatts of proposed solar power capacity - mostly in California, Arizona, and New Mexico - will be ready to go in the same time frame. That is enough to power 1.8 million homes.

With the economic recovery plan investments, Interior also will be able to complete the reviews and permits for several new transmission projects so they can be ready for construction by 2010. This new transmission infrastructure can be part of a new national electrical supergrid that can help move this clean power not just to the closest load center, but back and forth across the country to areas of highest demand.

As steward of one-fifth of the nation's land and 1.7 billion acres of ocean, Interior has long had a mandate to support responsible oil, gas, and coal development. Producing these conventional resources on public lands must and will continue. And Interior will continue to find better ways to develop and use these resources, including through carbon capture and sequestration and other advanced coal technologies, Salazar said.

But the Department now is also opening the way for solar, wind, biomass, and geothermal projects in appropriate areas of our public lands. Americans have an estimated 206 gigawatts of wind energy potential on public lands in the West. An estimated 2,900 gigawatts of solar energy potential in the southwest. And an estimated 1,000 gigawatts of wind energy potential in waters off the Atlantic coast alone.

A clean energy economy also means new jobs and economic development for rural America, Salazar noted. "Rural communities are on the leading edge of the renewable energy frontier. In Colorado, where I'm from, we're adding thousands of jobs at new wind turbine manufacturing plants in places like Pueblo, Brighton, and Windsor. Ranchers across the eastern plains are earning extra money as wind farms spring to life. And in my native San Luis Valley - one of the poorest areas of the country - a new solar farm has brought hope for a brighter economic future."

Secretary's remarks are at http://www.doi.gov/secretary/speeches/050509_speech.html.

See http://7thspace.com/headlines/308488/secretary_salazar_pledges_to_open_four_renewable_energy_permitting_offices_create_renewable_energy_teams.html.

Company News

Ormat: Lucien Bronicki Interviewed by *Scientific American*

Lucien Bronicki, chairman and chief technology officer of Ormat Technologies, provided insight into the geothermal industry in a phone interview with *Scientific American*, according to their Web site. Bronicki addressed issues in the geothermal energy industry and pointed out ways Ormat is working to overcome obstacles.

"To build a power plant, our approach is to tailor-make the power plant to the resource," Bronicki said. This approach means it takes longer to explore the resource, but ensures that the plant is right for its environmental conditions. "Most of our plants are air-cooled, which means that we inject everything. And therefore the sustainability of the system is extended, because you don't consume the water." Further, Bronicki explained, Ormat's Organic Rankine Cycle to increase capabilities of a resource to be developed at lower temperatures.

Regarding technical obstacles, Bronicki said: "there is the availability of companies which deal with the geophysical approach and then the availability of drilling rigs. Until about a year ago both were very difficult to get, and we had to buy our own rigs. Short-term I would say these availabilities are not an obstacle . . . Long-term, though, it is an obstacle."

On training new employees for an industry with growing needs, Bronicki said: "Today we are working with the University of Nevada, Reno, and with M.I.T. There is a renewed interest among students in going back to geology, hydrology. But this is something that takes time . . . So if geothermal is to grow it's important to start it now, and in the U.S. many universities are now enrolling more students in this field."

See http://www.scientificamerican.com/article.cfm?id=energy-bronicki-ormat-technologies.

Ormat: Company Posts First Quarter Results

Press Release Highlights—May 11, Ormat Technologies, Inc. Reports Record First Quarter 2009 Results: Q1 net income increased 45.2% to $14.5 million; Q1 total revenues increased 44.0% to $99.9 million with record Products Segment revenues of $37.3 million

RENO, Nev. -- Ormat Technologies, Inc. (NYSE: ORA) today announced financial results for the first quarter 2009.

For the three month period ended March 31, 2009, total revenues were $99.9 million, an increase of 44.0% from $69.4 million in the first quarter of 2008, consisting of a $3.1 million increase in revenues from the Electricity Segment, and a $27.4 million increase in revenues from the Products Segment.

For the quarter, the Company reported net income of $14.5 million or $0.32 per share (basic and diluted), as compared to net income of $10.0 million, or $0.24 per share (basic and diluted), for the same period a year ago. The increase in net income is primarily attributable to an increase in sales within the Products Segment primarily derived from EPC contracts for the construction of two large geothermal projects and additional energy generated year-over-year in our Electricity Segment.

Commenting on the quarter's results, Dita Bronicki, Chief Executive Officer of Ormat, stated: "Growth continued during the quarter with improvements in both our revenues and net income. Revenue from our Products Segment accounted for a significant portion of this quarter's growth. Revenues from our Products Segment are expected to continue to grow throughout the year with an expected increase of 20% to 30% compared to last year. An increase in generation in our Electricity Segment compared to last year also contributed to our record results but its impact was not fully reflected, primarily because of lower energy rates at our Puna facility, the only facility which is sensitive to oil prices. While North Brawley has not yet reached commercial operation, the 35 MW expansion of our Olkaria III power plant in Kenya, is operating as planned.

"In March 2009, we received the first $90.0 million out of a $105 million project financing loan for the Olkaria III power plants. This additional capital, when combined with operating cash flow and $241.1 million of unutilized secured lines of credit with banks, will fund our growth plans that are expected to add 72 MW to 84 MW over the next two years, and to include approximately $30 million for exploration in 2009 alone, to support projects beyond 2010."

Commenting on the outlook for 2009, Ms. Bronicki said, "With regard to our Electricity Segment, due to the delays in the commercial operation of North Brawley we expect electricity revenues for 2009 to be between $265 million and $275 million. We also expect additional revenues of approximately $9 million from our share of electricity revenues generated by the Mammoth complex, the investment in which is accounted for under the equity method. With respect to our Products Segment, we currently expect that our 2009 revenue will be between $110 million and $120 million."

Ms. Bronicki concluded, "These excellent results reflect the strong fundamentals of our development and enhancement activities as well as customer support for our proven technology. Our already strong capital base positions us well for the future as we continue to invest in our growth."

See http://www.ormat.com/relation.php?did=84 and http://www.globes.co.il/serveen/globes/DocView.asp?did=1000448705&fid=1725.

Raser: Low-Temperature Geothermal Plant Delivers to Anaheim

Raser's Hatch geothermal power plant in Beaver County, Utah, has begun delivering 10 MW of power to Anaheim, California, according to gizmag.com. Anaheim is purchasing the electricity under a 20-year power purchase agreement at a rate of USD$78 per MWh or USD$13.3 million a year, enough to power 9,000 homes, according to the article.

The article explains how Raser uses an Organic Rankine Cycle to make use of geothermal resources previously unusable; typical geothermal plants require the temperature to be at least 360ºF (182C), but the Hatch plant uses temperatures as low as 158ºF to 176ºF (70-80°C).

See http://www.gizmag.com/raser-low-temperature-binary-geothermal-plant-goes-online/11612/.

Western GeoPower: New Leases Obtained in Imperial County, CA

Press Release Highlights—May 6, Western GeoPower Acquires Second Geothermal Reservoir in California

Vancouver, WGP – Western GeoPower Corp., a renewable energy company, today announced the acquisition of approximately 3,000 acres of private geothermal leases with a confirmed high-temperature geothermal reservoir, at South Brawley, in Imperial County, California. The South Brawley leases grant Western GeoPower the right to develop the geothermal reservoir and build a plant for electricity generation.

A preliminary review of earlier data from the Western GeoPower South Brawley leases conducted by independent consultants GeothermEx, Inc., has determined that the leases lie at the core of a geothermal anomaly which has been well defined from geophysical surveys.

Previous wells, now plugged and abandoned, have confirmed the existence of a high temperature (up to 278◦C or 532◦F) reservoir, and pressure interference testing has demonstrated the existence of high flow and storage capacities within the reservoir. A wellhead productivity of 700,000 pounds per hour (equivalent to about 7 MW) had been demonstrated by well testing. However, these wells had a narrower diameter than is conventional for geothermal wells today and the wells showed major formation damage. New wells with a larger diameter drilled on the property should have a much higher productivity.

"The South Brawley leases complement Western GeoPower's strategy to acquire geothermal projects with demonstrated production potential," said Kenneth MacLeod, President and Chief Executive Officer of Western GeoPower. "We are confident of achieving substantial time and cost savings by taking advantage of the earlier well testing data and targeting new wells to intersect the known productive zones."

Western GeoPower will retain GeothermEx, Inc. of Richmond, California, to provide an independent assessment of the potential for the South Brawley leases and design a drilling program to confirm the resource. GeothermEx has conducted well test analyses, resource assessment, reservoir simulation and mineral recovery modeling for this site for various parties since the inception of this project in the late 1970s.

Renewable and Climate Change News

Interior's $12b Proposed Budget Includes $183m in Energy and Climate Increases

President Obama's proposed $12 billion budget for the Department of the Interior in FY2010, which begins October 1, 2009, focuses on a new energy frontier, climate impacts, America's treasured landscapes, a 21st century youth conservation corps, and Native American communities, according to the press release.

Secretary of the Interior Ken Salazar told press: "Interior is uniquely positioned to be a leader in responsibly developing America's new energy frontier, tackling climate impacts, restoring and preserving America's treasured landscapes, creating a 21st Century Youth Conservation Corps, and investing in strong tribal communities." He added, "The President's stimulus funding under the American Recovery and Reinvestment Act of 2009 has provided Interior $3 billion to lay a foundation for this work and his 2010 budget will build on that with targeted increases in key areas."

The 2010 budget includes:

- $183 million in increases for a clean energy and mitigation of climate impacts
  - Clean Energy Future Initiative: $50.1 million to facilitate responsible development of Interior-managed lands and offshore areas with the highest renewable energy potential, including wind, solar, geothermal, and biomass
  - Climate Impact Initiative: $133 million to support integrated activities to assess and respond to the effects of climate change on Interior-managed landscapes, water, and wildlife

- $100 million for National Park Service operations to restore and protect America's treasured landscapes and $25 million in park partnership matching funds

- $102 million to strengthen American Indian and Native Alaskan communities through expanded education programs, putting more officers on the streets, and enhanced law enforcement training

- $50 million for a 21st Century Youth Conservation Corps to engage more youth in the outdoors through environmental stewardship education, career development, and a new fishing, hunting and wildlife management educational program.

"The budget makes hard budget choices while making wise investments in a clean energy economy, making investments in education that will allow student to compete in the 21st century economy, and confronting other challenges," Salazar noted. "These proposed initiative increases include more than $100 million in grants to states and tribal communities, our partners in solving the economic and resource challenges facing the Nation."

The total proposed funding by bureau is as follows: Bureau of Indian Affairs, $2.5 billion; National Park Service, $2.7 billion; U.S. Fish and Wildlife Service, $1.6 billion; Bureau of Reclamation, $1.0 billion; Central Utah Project Completion, $42 million; Bureau of Land Management, $1.1 billion; Minerals Management Service, $181 million; U.S. Geological Survey, $1.1 billion; Office of Surface Mining, $159 million; Office of Insular Affairs, $86 million; Office of Special Trustee for American Indians, $186 million; Department wide Programs, $1.1 billion; Departmental Management, $119 million.

Permanent funding from existing legislation will provide an additional $6.1 billion, for a total FY2010 Interior budget of $18.2 billion, according to the release.

See http://7thspace.com/headlines/308718/12_billion_interior_budget_focuses_on_new_energy_frontier_climate_impacts_americas_treasured_landscapes_a_21st_century_youth_conservation_corps_and_native_american_communities.html *and* http://www.doi.gov/budget/2010/10Hilites/toc.html.

State News

California: Ambitious Northern California Transmission Project Enters Environmental Review Scoping Phase

By John McCaull, Western States Representative for GEA

May 8, 2009. As California and Nevada both near completion of statewide conceptual transmission plans designed to access renewable energy resources, a new interstate transmission proposal is starting to gain a lot of attention. The Transmission Agency of Northern California (TANC) has initiated a public review "scoping phase" through the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) for their TANC Transmission Project (or TTP). According to TANC's February 2009 press release, the TTP is designed to "benefit the reliability of the Northern California transmission grid and could allow for the integration of at least 1600 MW of new renewable generation." This project has significant implications for accessing known geothermal resources in Northern California, Northern Nevada and Southern Oregon.

Established in1984, the Transmission Agency of Northern California (TANC) is a California Joint Powers Agency consisting of 15 local governmental utilities. The Mission of TANC is to assist its publicly-owned utility members in providing cost-effective energy supplies to their customers through long-term ownership of essential high-voltage transmission lines within California and the western United States. TANC currently owns approximately 90 percent of the California-Oregon Transmission Project (COTP) which interconnects California with the Pacific Northwest.

The newly proposed TTP represents roughly 600 miles of new and upgraded high-voltage transmission facilities that would create new and upgraded connections between Oregon, Nevada, and California. The recent completion of a year-long study documenting the TANC project benefits to Northern California was the impetus for beginning the CEQA/NEPA scoping process. "We are pleased to see that the Sub-Regional Planning Group confirms the significant benefits that the TTP will have for the State of California," noted TANC Chairman Allen Short. "As a result of completing the Sub-Regional Planning Group's efforts, TANC now moves forward with planning and routing the TTP with the confidence that the infrastructure enhances the reliability and power delivery capability of the Northern California transmission grid."

As lead agency throughout the CEQA/NEPA process, TANC will be working closely with the Western Area Power Administration (WAPA). As Tom Boyko, Sierra Nevada Regional Manager of WAPA, noted "this project is another example of state and federal collaboration in the interest of promoting renewable energy and securing a more reliable electrical grid. "We are committed to working closely with TANC and other federal and state agencies to achieve a coordinated and effective process for the TTP."

By moving into the CEQA/NEPA phase the TANC Project has recently gained quite a bit of attention through California's Renewable Energy Transmission Initiative. James W. Beck, General Manager of TANC, added, "The California Renewable Energy Transmission Initiative's (RETI) recently published "Phase 1B Report" identified Lassen County, one planned terminus of the TTP, as a major Competitive Renewable Energy Zone (CREZ) with abundant wind, solar, geothermal, and biomass resources. TANC strongly agrees with the RETI assessment that Lassen County represents the only significant CREZ

identified by this crucial state process in Northern California. We look forward to working with our fellow agencies and the broader public to develop and construct this necessary piece of infrastructure."

Behind this comment is recognition that RETI has focused a disproportionate share of its attention on trying to sort out a tangle of land use complications for large-scale development of Southern California wind and solar resources. Northern California utilities such as the Sacramento Municipal Utility District (SMUD) and TANC have made it very clear in the last few months that Northern California was going to push just as aggressively for transmission system improvements for their region of the state. The RPS mandates of California are being taken very seriously by all the utilities, and TANC has moved their project right up to the front of the line for consideration.

As the proponents of other major California transmission projects have learned (Sunrise Powerlink, Green Path North, Tehachapi wind power project expansion), the environmental community and local community organizations have become very adept at responding to large-scale transmission project proposals that may impact sensitive habitat and resource areas. TANC is no exception. No sooner did TANC release their scoping documents, than the opposition started to surface. TANC has numerous transmission line route proposals and study areas throughout Northern California and adjacent states, and groups as diverse as the Sierra Club and rural supervisors from Butte and Lassen counties have raised questions about the transparency of TANC's public outreach process. As the Chico Enterprise Record recently opined, "This newspaper's definition of a transparent public process and the government's isn't quite the same."

The Transmission Agency of Northern California (TANC) and Western Area Power Administration (Western) say they have "heard your requests for more time to submit scoping comments on the preliminary proposed TTP study areas and the public comment period has been extended through May 31, 2009.

For those interested in reviewing more detailed maps of the proposed project study areas, a TTP Google Map application is now available at http://www.aspengooglemaps.com/TTP/Final/ttpadd1.php.

California: Transmission Project Faces Opposition

The *Sacramento Bee* ran a story on the Transmission Agency of Northern California (TANC) (see above story, **Ambitious Northern California Transmission Project Enters Environmental Review Scoping Phase**). The article points out difficulties in running transmission lines, such as opposition from communities where the lines would run.

See http://sacbee.com/topstories/story/1850173-p2.html.

Colorado: Area Reopened for Geothermal Heat Tests

Mount Princeton Geothermal has gained permission to explore geothermal resources near the Mount Princeton chalk cliffs, the first time the area has been open to geothermal exploration since the 1970s, according to themountainmail.com. "The goal with these six holes is to complete the western side of the high heat flow anomaly drilled by AMAX Exploration Co. from 1973-75," Fred Henderson III, of Mount Princeton Geothermal told press.

The company will drill test holes that will be left open for temperature measurements and monitoring. Further tests will prove the safety and regulatory maintenance of the project and will assure that the water resources used are non-consumptive. Production and injection drilling for a geothermal electrical generation facility may begin next year.

See http://www.themountainmail.com/main.asp?SectionID=4&SubSectionID=4&ArticleID=16344.

Colorado: Geothermal Seminar Names Goals for Electricity Production, Direct Use

The Colorado Geothermal Working Group seminar at Salida Steam Plant gathered local officials and leaders to learn about abundant geothermal potential in the region, according to themountainmail.com.

The group discussed goals for the resource. The group hopes to start the first electricity production in the state. "Resource identification is still the priority," according to Joani Matranga, Western regional representative for the Governor's Energy Office. "We want to identify our geothermal resources for economic development and expand direct use of heat energy," Matranga added.

To help with the much-needed capital for projects, grants may be available through the Governor's Energy Office and the Department of Energy. Colorado will have at least one application for two related DOE FY2009 funding opportunity announcements.

Colorado has over 40 types of direct use geothermal applications and ranks fourth among Western states in the number of potential sites for geothermal power generation, according to the 2006 Western Governors Association report, the article said.

See http://www.themountainmail.com/main.asp?SectionID=4&SubSectionID=4&ArticleID=16346&TM=46509.85.

Indiana: Senator to Kick Off Ball State Geothermal Project

From Ball State University:

Construction of the country's largest geothermal heating and cooling system is set to begin at 11:30 a.m. on Saturday, May 9. U.S. Sen. Richard Lugar (R-Ind.) will ceremonially control the drilling machine that will drive the first of up to 4,000 boreholes required by the project.

Within a decade, the university expects to heat and cool via geothermal means more than 40 buildings on its 660-acre campus, realizing significant annual energy savings and cutting carbon emissions by approximately 80,000 tons per year.

Lugar, a proponent of greater U.S. energy efficiency and independence, will be on hand for the unusual groundbreaking by virtue of his presence as the principal speaker at Ball State's 155th Commencement exercises, scheduled for 10 that morning on the Arts Terrace. President Jo Ann M. Gora will confer degrees upon approximately 2,500 undergraduate and graduate students at the annual ceremony, where Lugar also will be presented with the President's Medal of Distinction.

Drilling of the geothermal project's initial borehole will take place at the location of the first of three planned "energy fields" at the heart of the proposed system, this one situated at the north end of the campus near Anthony Apartments, west of Carmichael Hall.

Cost for the project is estimated at $65 million to $70 million. University officials anticipate a highly competitive bid process due to the current economic climate that could result in a highly favorable final cost.

See http://www.bsu.edu/news/article/0,1370,7273-850-61864,00.html.

International News

Australia: HDR Conducts Assessment on Potential EGS Project Resource

Southern Gold Limited has contracted Hot Dry Rocks Pty Ltd to complete a geothermal resource assessment at the Torrens Geothermal Project in South Australia, according to proactiveinvestors.com.au. Southern Gold seeks to establish a commercially viable enhanced geothermal systems project in the area. Hot Dry Rock will conduct an assessment compliant with the Australian Code for Reporting of Exploration Results, Geothermal Resources and Geothermal Reserves, and has already confirmed high heat flows averaging 94mW/m2 measured by Southern Gold, according to the article.

See http://www.proactiveinvestors.com.au/companies/news/1375/southern-gold-to-define-geothermal-resource-in-south-australia-1375.html.

Montserrat: EGS to Conduct Geothermal Exploration on Caribbean Island

EGS, Inc. has been awarded a contract to perform geothermal exploration studies on the island of Montserrat in the Caribbean, according to energycurrent.com. Led by Chief Geologist Paul Brophy, EGS, Inc. is a subsidiary of ThermaSource LLC. "The government of Montserrat is looking to take advantage of its volcanic origins by developing the geothermal potential for a green and renewable energy source," said Brophy. "A reliable energy resource will also help with the economic redevelopment of the island."

See http://www.energycurrent.com/index.php?id=3&storyid=17834 and www.thermasource.com.

Nevis: West Indies Power Signs Geothermal Power Purchase Agreement

West Indies Power Ltd has signed a 25-year power purchase agreement for the development of geothermal energy with the Nevis Electricity Company Ltd, according to caribbean360.com. Nevis' Minister of Natural Resources and the Environment Carlisle Powell told press he was satisfied that the NIA negotiated a good deal for all the people of Nevis, according to the article. The agreement outlines rights and benefits for both parties, such as, the Nevis Island Administration will be paid a royalty on products produced, and WIP will be able to export power from Nevis to other islands.

"With the signing of these agreements West Indies Power will now be able to start building the geothermal power plants that will supply Nevis and the other islands in the northern Caribbean with low cost, reliable, renewable, clean energy for the foreseeable future," Chief Executive Officer of WIPN, Kerry McDonald told press.

See http://www.caribbean360.com/News/Business/Stories/2009/04/30/NEWS0000007290.html.

Philippines: DOE Issues Guidelines for Contracting Coal, Geothermal, Petroleum

The Department of Energy (DOE) has issued guidelines to govern the bidding of coal, geothermal, and petroleum service or operating contracts, according to businessmirror.com. DOE hopes to avoid issues over contract areas and to attract local and foreign investment.

The Energy Resource Development Bureau (ERDB) will determine prospective coal, geothermal, or petroleum areas and submit reports to the energy secretary, who will declare an area open for a competitive public contracting round. DOE told press it will not accept an application except during the competitive public contracting rounds.

See http://www.businessmirror.com.ph/home/economy/9915-doe-issues-new-guidelines-for-contracting-round.html.

Portugal: Kernow Updates on Application for Geothermal License

Kernow Resources & Developments Ltd. Has provided an update on its application for a license to explore for geothermal resources in Northern Portugal, according to tradingmarkets.com.

The work program proposed to the DEGE is as follows:

First Year

• Collect and analyze previous data
• Undertake interpretation of satellite images and orthography
• Complete Geological cartography
• Examine the Geo-structural analysis of the region
• Undertake Geophysical surveys, exact method yet to be determined but likely to include 3 D resistivity and remodeling of existing data
• Undertake assessment of the applicability of ZTEM/ AirMt airborne AFMAG surveys to detect/ assist in geothermal exploration
• Create analogous 2D Forward models that simulate the expected ZTEM/AirMt responses over geothermal targets

Second year

• Identification and selection of preferred drilling targets
• Reverse circulation drilling combined with diamond drilling to allow for the taking of core samples, target depths will be determined by the geophysical data
• Minimum target depths will be 500 m
• Drilling of a deep surface cased slim hole to determine the geothermal gradient

See http://www.tradingmarkets.com/.site/news/Stock%20News/2312040/.

Turkey: GeoFund Workshop Proceedings Released

The Geothermal Energy Development Program (GeoFund), a World Band project, has made available its February 2009 Proceedings of the Workshop on Geothermal Energy in ECA Region Countries held in Istanbul, Turkey.

"The Workshop was a launching pad for allocating World Bank GeoFunds for geothermal developments in power, direct applications and heat/cooling pumps," stated Prof. Dr. Horst Rueter, Chairman of IGA Education Committee, in the Foreword of the Proceedings. "The World Bank has indentified projects in Turkey and other ECA countries ready to initiate geothermal developments and aimed to identify more geothermal potential at this Workshop."

"The goal of the Workshop was to educate participants on the GeoFund to enable geothermal development via World Bank and IFC GeoFund," Rueter continued. "As outlined by the World Bank's GeoFund initiative, the workshop aimed to help educate participants on how to secure these funds and forward geothermal developments in 2009 and beyond."

- GeoFund, via the World Bank, will support selected projects by providing grants, contingent grants and low cost loans.
- GeoFund, via the IFC, will help improve the performance of existing geothermal installations, and will support business plans for promising geothermal developments.
- GeoFund Geological Risk Insurance (GRI), via the WB/IFC, will insure project developers & investors against the short-term and medium-term geological risks of these investments.
- IGA will be engaged in 'region wide' projects as education, information etc as in previous years.

"We hope that this workshop and any resulting projects help contribute to the fight against global warming and support sustainable energy in the ECA countries, which is more secure and independent from external sources," Rueter concluded. "A successful geothermal project demonstrates that heat and power is possible without importing fossil fuels or potentially harmful installations such as nuclear power plants."

See http://www.partnership-international.com/Proceeding_GeothermalWorkshop_Istanbul_Full_456pgs.

Notices

FOA for Advanced Research Projects Agency–Energy, DOE (June 2)

This is the first solicitation for the Advanced Research Projects Agency–Energy (ARPA–E), a new organization within the Department of Energy (DOE). It includes $150 million for geothermal energy.

This solicitation was created specifically to foster research and development (R&D) of transformational energy-related technologies.

The concept paper opening date is May 12 at 8:00 am EST; the closing date is June 2 at 8:00 pm EST.

See Funding Opportunity Announcement Number DE-FOA-0000065. For the link to the full announcement, go to http://www07.grants.gov/search/search.do?oppId=47045&mode=VIEW.

FOA for Enhanced Geothermal Systems Demonstrations, DOE (May 14)

GTP has issued a Funding Opportunity Announcement (FOA), DE-PS36-09GO99019, for up to $10 million in FY2009 and with anticipated additional funds of up to $39 million in FY2010, FY2011, FY2012, FY2013, and FY2014, subject to change and Congressional appropriations.

Through this FOA, GTP is seeking projects in a variety of geologic formations that will quantitatively demonstrate and validate stimulation techniques for application in that successfully sustain sufficient fluid flow and heat extraction rates for 5-7 years that produce at least 5 MWe per year per project site/geothermal reservoir. GTP will also consider projects to further characterize, stimulate, and validate underutilized geothermal resources, particularly in urban and rural regions with high electricity costs such as Alaska, Hawaii, the eastern U.S., Indian Reservations, etc.

You can find information on and requirements for responding to this Enhanced Geothermal Systems Demonstration at http://www1.eere.energy.gov/geothermal/current_solicitations.html.

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 exists under a sole 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

Employment Opportunities

Director of Development, California Operations, CalEnergy

CalEnergy Operation Corporation is an international leader in the development and production of energy from diversified fuel sources including geothermal, natural gas and hydroelectric. CalEnergy is currently looking for a Director of Development for California-based operations.

This individual will direct, coordinate and exercise functional authority over all activities associated with the development of the new geothermal power plants and other platform development opportunities:

- Administers the project construction contract, manages the use of consultants, and has fiscal responsibility for all costs to build the new plants.
- Directs and oversees the integration of the new plants into the current Imperial Valley operations consistent with the organization's policies and objectives. Qualified candidates will have a bachelor's degree in engineering, business administration, or related field or equivalent work experience.
- Eight years experience in managing power plant development and installation projects or power plant operations including three years supervisory responsibilities.
- Excellent oral and written communication skills, including presentation skills.
- Effective interpersonal skills and leadership abilities.

To apply for this position and view a complete job description please visit www.calenergy.com.

Land Development Manager, Major Geothermal Power Company, California

Operating geothermal power plant in Northern California with ongoing expansion initiatives seeks Development Manager to lead the overall development efforts for the business including coordination of activities on a recently-acquired adjacent geothermal lease (820 acres).

The Development Manager will be asked to assume leadership of the current development activities and to manage the overall effort focused on obtaining necessary permits and approvals to begin construction and drilling activities in search of additional steam resources.

Responsibilities will include:
•Coordinate overall permitting effort amongst key regulatory agencies (CEC, BLM, County, etc.),
•Manage lead CEQA/NEPA contractor and ensure timely and quality work product,
•Manage legal counsel to ensure timely and quality advice and coordination,
•Manage and/or engage additional subcontractors as necessary,
•Coordinate with plant Compliance Manager to ensure compliance with all environmental and safety regulations throughout the development process,
•Coordinate with plant Drilling Supervisor to ensure that the drilling program is developed with the overall development timeline, scope and plan,
•Interface with landowner(s) that hold private surface rights to the geothermal mineral lease,
•Review and authorize development invoices, budgets, capital requests, etc., and
•Oversee the ongoing development effort to ensure safe, environmentally-compliant, and cost-effective results.

Contact:
Mike Erney
Project Director – Alternative Energy
The Carmon Group
(216) 328-9060 EXT 102
michaelerney@carmongroup.com
www.linkedin.com/in/michaelerney

Senior Account Manager for Geothermal Energy

A Fortune 100, multi-billion dollar electronics, engineering and renewable energy company seeks a Senior Account Manager responsible for the sales of geothermal renewable energy. This is a newly created position so there are very few walls and the territory will be wide open for this individual. They are seeking an individual with a minimum of 2 years experience in selling renewable energy, specifically sales of geothermal renewable energy. The candidate basically can live anywhere in the U.S. as long as they are open to travel, by airplane and car.

Our client offers a competitive base salary as well as a lucrative commission structure. Furthermore, they offer full health, dental, and vision benefits (which start day one of employment) as well as a 100% matching 401k plan up to 6% employee contribution, and excellent incentives such as a company car, cell phone, laptop, expenses, and much more.

Contact Information:
Apply to Position AMRE
E-mail resumes to: sherryl@swaffordresources.com
Fax resumes to: 281-858-5852

Senior Director, Business Development, Major Geothermal Company

The Senior Director, Business Development is responsible for overseeing the Business Development function in North America for geothermal market. This role could quickly grow into a VP role and will oversee a sales team currently consisting of 8 sales reps and will grow it by 50%.

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
- 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.

Education, Experience, and Skills Required:

- Bachelor degree in engineering and MBA
- 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

Contact:
Paige Carratturo
Executive Recruiter
Richard Wayne & Roberts
877-236-0899 (direct)
206-855-9746 (fax)
paige@rwr.com
http://www.linkedin.com/in/paigecarratturo

Geothermal Project Supervisor, Central American Bank for Economic Integration, Costa Rica

The Central American Bank for Economic Integration (Banco Centroamericano de Integracion Economica, BCIE) is looking for an expert in geothermal energy to supervise a project in Costa Rica. It is called Las Pailas and it is financed through BCIE.

Contact:
Ana Karina Rubi de Reyes, Oficial de Consultorias, BCIE-Tegucigalpa, Honduras
Tel. +504-240-2243, Ext. 5214
Fax. +504-240-2228

Visit the BCIE Web site, www.bcie.org - www.cabei.org

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. No calls please.

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, 214-768-2745

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/

NREL is an equal opportunity employer committed to diversity and a drug-free workplace.

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.

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

Requests for Proposals (RFPs)

RFP for Smart Grid Demonstrations, DOE, American Recovery and Reinvestment Act

The U.S. Department of Energy announces its intent to request proposals for Smart Grid Demonstrations. Through this RFP, DOE seeks regionally unique demonstrations to verify smart grid technology viability, quantify smart grid costs and benefits, and validate new smart grid business models, at a scale that can be readily adapted and replicated around the country. Areas of interest include: Smart Grid Demonstrations, Synchrophasors, and Energy Storage. $615 million expected to be available, up to 36 awards anticipated. Closing date to be announced with release of RFP. For more info, contact Keith Carrington at keith.carrington@netl.doe.gov or go to: http://www07.grants.gov/search/search.do;jsessionid=9x3VJydGP2TfWHPRK9mfnphLqsWpm1TQmDJTzS6XLDp1QJKpb2SM!-1267850137?oppId=46836&flag2006=false&mode=VIEW. Refer to Sol# DE-FOA-0000036. (Grants.gov 4/16/09)

RFP for State Energy Program, DOE

The U.S. Department of Energy requests proposals for the State Energy Program (SEP). This program provides formula grants to State and Territorial energy offices to design and carry out renewable energy and energy efficiency priorities. $25 million expected to be available, up to 56 awards anticipated. Due dates based on state/territorial program years. For more info, contact Lisa Kuzniar at lkuzni@netl.doe.gov or go to: http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46791. Refer to Sol# DE-FOA-0000073. (Grants.gov 4/14/09)

RFP for Contribution of Cost Share for Transportation Related Recovery Act RFPs, CEC

The California Energy Commission requests proposals for the American Recovery and Reinvestment Act Cost Share: Alternative and Renewable Fuel and Vehicle Technology Program. Through this RFP, the CEC will contribute cost share to applicants who are submitting proposals to the Federal government in response to a transportation-related Recovery Act funding opportunity announcements. All projects must be based in California. Eligible Recovery Act solicitations include, but are not limited to: Transportation Electrification (Round 1), DOE, DE-FOA-0000028; Energy Efficiency and Renewable Energy Research – Electric Drive Battery and Component Manufacturing Initiative, DOE, DE-FOA-0000026; Clean Cities (Rounds 1 and 2), DOE, DE-PS26-09NT01236-04; and Transit Investments for Greenhouse Gas and Energy Reduction, DOT, FTA-09005-TIGGER-TRI. $176 million expected to be available, due dates vary by solicitation. For more info, contact Sarah Williams at skawilli@energy.state.ca.us or go to: http://www.energy.ca.gov/contracts/transportation.html#PON-08-010. Refer to PON-08-010.

RFP for Renewables Purchase in Southwest, U.S. Navy

The U.S. Department of the Navy announces its intent to request proposals for the purchase of competitively priced renewable electrical power through power purchase agreements at Naval and Marine Corps installations in the Naval Facilities Engineering Command Southwest AOR. The Navy seeks systems that are constructed, owned, operated, maintained and repaired by the successful offeror(s) on Government property located within the installation boundaries. Up to 5 awards anticipated. The RFP will be issued "within the next month." For more info, contact Russell Dominy at Russell.dominy@navy.mil or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=2d9716078bff363ae320d7e111d4b2d0&tab=core&_cview=1. Refer to Sol# N6258309R0085. (FBO 4/17/09)

RFP for Technology and National Research Priorities, American Recovery and Reinvestment Act

The National Institute of Standards and Technology requests proposals for the Technology Innovation Recovery Act Measurement Science and Engineering Research Grants Program: Providing the Technology Infrastructure to Address National Priorities. Priority research areas include, but are not limited to: Energy, environment and climate change; manufacturing; and physical infrastructure. $35 million expected to be available, up to 60 awards anticipated. Responses accepted on a continuous basis. For more info, contact Christopher Hunton at christopher.hunton@nist.gov or go to: http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46063. Refer to Sol# 2009-NIST-ARRA-MSE-RESEARCH-01. (Grants.gov 3/16/09)

RFP for State Energy Program Formula Grants, DOE (May 12)

The U.S. Department of Energy requests proposals for the State Energy Program Formula Grant. SEP goals include, but are not limited to, increasing energy efficiency, reducing reliance on imported energy, improving power reliability, and reducing the impacts of energy production on the environment. Lead applicants must be State, Territorial and D.C. Energy Offices that administer the SEP. $3.1 billion is expected to be available, 56 awards anticipated. Pre-applications due 3/23/09, final proposals due 5/12/09. For more info, contact Sheldon Funk at sheldon.funk@netl.doe.gov or go to: http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=45986. Refer to Sol# DE-FOA-000052. (Grants.gov 3/12/09)

RFP for Carbon Sequestration in Geologic Formations, DOE (May 12)

The U.S. Department of Energy requests proposals for Innovative and Advanced Technologies and Protocols for Monitoring/Verification/Accounting, Simulation, and Risk Assessment of Carbon Dioxide Sequestration in Geologic Formations. Results will help address the future CO_2 management needs of coal based electric power generating facilities. $24 million expected to be available, up to 24 awards anticipated. Responses due 5/12/09. For more info, contact Juliana Heynes at heynes@netl.doe.gov or go to: http://www07.grants.gov/search/search.do;jsessionid=3hK5JYWKNMhBW21QpnDmjcKC11CyyRwKnyG4ZHk72S2wSNn4K2Zx!-802466050?mode=VIEWREVISIONS&revNum=0. Refer to Sol# DE-FOA-0000023. (Grants.gov 3/23/09)

RFP for Enhanced Geothermal Systems Demonstration, DOE (May 14)

The U.S. Department of Energy requests proposals for Enhanced Geothermal Systems Demonstration. Through this initiative, DOE seeks projects in a variety of geologic formations that will quantitatively demonstrate and validate stimulation techniques that successfully sustain sufficient fluid flow and heat extraction rates for 5-7 years that produce at least 5 MWe per year per project site/geothermal reservoir. $49 million expected to be available, up to 10 awards anticipated. Responses due 5/14/09. For more info, contact Pete Simon at FY09EGSDemos@go.doe.gov or go to: https://e-center.doe.gov/iips/faopor.nsf/UNID/528FF32A5FE2358D8525756F0069DEC3?OpenDocument. Refer to Sol# DE-PS36-09GO99019. (Grants.gov 3/4/09)

Request for Software to Analyze Integration of Renewables and Energy Systems (May 15)

The Naval Facilities Engineering Command, Engineering Service Center seeks a software based model that can be used to analyze the integration of photovoltaic systems, wind energy systems, conventional diesel generation, and energy storage. Award NTE $400K. Abstracts due 5/15/09. For more info, contact Gene Crank at eugene.crank@navy.mil or go to:

https://www.fbo.gov/?s=opportunity&mode=form&id=78ae41e101032453c66d9007ecc63cd1&tab=core&_cview=1. Refer to Sol# N6258309R0089. (FBO 4/18/09)

RFP for Western and Territorial Water Marketing and Efficiency Grants, Bureau of Reclamation (May 19)

The U.S. Bureau of Reclamation, Denver Office, announces its intent to request proposals for Challenge Grants: Water Marketing and Efficiency Grants for the American Recovery Reinvestment Act of 2009. This initiative will support projects that bank water, market water, conserve water, or generally make more efficient use of existing water supplies. Projects must take place in AZ, CA, CO, ID, KS, MT, NE, NV, NM, ND, OK, OR, SD, TX, UT, WA, WY, AS, GU, CNMI, or the VI. As of 3/14/09, the anticipated RFP release date or funding amounts had not been posted. Proposals due 5/19/09. For more info, contact Stephanie Bartlett at sbartlett@usbr.gov or go to: http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=45930. Refer to Sol# 09SF811499. (Grants.gov 3/10/09)

RFP for Source Reduction, EPA (May 26)

The U.S. Environmental Protection Agency, with the exception of Region 8, requests proposals for the Source Reduction Assistance Grant Program. SRA supports pollution prevention/source reduction and resource conservation projects that reduce or eliminate pollution at the source. Areas of interest include, but are not limited to: Projects that use source reduction to reduce pounds of hazardous wastes/substances; water conservation, energy conservation; and reduction of greenhouse gases. $1.170 million expected to be available, up to 30 awards anticipated. Responses due 5/26/09. For more info, including Regional contacts and priorities, go to: http://www.epa.gov/p2/pubs/grants/srap09.htm. Refer to Sol# EPA-HQ-OPPT-09-08. (Grants.gov 4/27/09)

RFP for Energy Efficiency and Conservation Block Grants, DOE, American Recovery and Reinvestment Act (May 26 and June 25)

The U.S. Department of Energy request proposals for Energy Efficiency and Conservation Block Grants (EECBG). This program will provide financial assistance to eligible states, cities, counties and Indian Tribes to create and implement strategies to reduce energy use and fossil fuel emissions, and improve efficiency in the building, transportation, and other appropriate sectors. Areas of interest include, are not limited to: Development of efficiency and conservation strategies and programs for buildings and transportation, technical consultant services; building energy audits; energy efficiency retrofits; building codes programs; reduction and capture of methane and greenhouse gases; traffic signals and street lighting; and renewable energy technologies on government buildings. $3.1 billion expected to be available. Applications from States due 5/26/09. Applications from Local Governments and Tribes due 6/25/09. For more info, contact Lisa Kuzniar at lkuzni@netl.doe.gov or go to: http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46340. Refer to Sol# DE-FOA-0000013. (Grants.gov 3/26/09)

RFP for Community Economic Development, Department of Health and Human Services (May 28)

The U.S. Department of Health and Human Services requests proposals for Community Economic Development (CED) Projects. CED supports Community Development Corporation efforts to assist community economic development activities designed to address the economic needs of low-income individuals and families through the creation of employment and business opportunities in low-income communities. CED focuses on industries that have viable short and long term job outlooks and present no obvious long term risks. One recommended strategy for sustaining growth is creating jobs in high growth sectors which include, but are not limited to, Recycling, Renewable or Alternative Energy, Transportation

or Advanced Manufacturing. $29.1 million expected to be available, up to 47 awards anticipated. Responses due 5/28/09. For more info, contact Rafael Elizalde at OCSGRANTS@acf.hhs.gov or go to: http://www.acf.hhs.gov/grants/open/HHS-2009-ACF-OCS-EE-0034.html. Refer to Sol# HHS-2009-ACF-OCS-EE-0034. (Grants.gov 3/9/08)

RFP for Energy Efficiency and Renewable Energy Training Programs, Appalachia (May 29)

The Appalachian Regional Commission requests proposals for Renewable Energy and Energy Efficiency Training and Certification Programs. Funded projects must focus on training and certification programs, supporting the development of trained employees for jobs in the renewable and energy efficiency fields, as well as providing certified installers to the marketplace. Implementation of energy efficiency education curricula, such as USGBC LEED programs, ASHRAE programming, IECC, or other energy efficiency coursework will also be supported. Projects must take place in the ARC Region which includes all of WV and parts of AL, GA, KY, MD, MS, NY, NC, OH, PA, SC, TN, and VA. $250K expected to be available, up to 10 awards anticipated. Reponses due 5/29/09. For more info, go to: http://www.arc.gov/images/rfp/ARC%20Energy%20RFP%20Training%20and%20Certification.pdf.

RFP for Renewable Energy and Energy Efficiency for K–12 Schools, Appalachia (May 29)

The Appalachian Regional Commission requests proposals for Renewable Energy and Energy Efficiency for K-12 Schools. This program will underwrite costs of installing renewable energy and energy efficiency equipment in K–12 schools in Appalachia, and provide support for the implementation of associated science, environment, and business curricula in the classroom. Eligible renewable energy equipment includes: Wind, solar, fuel cells, biofuels, and geothermal systems. Projects must take place in the ARC Region which includes all of WV and parts of AL, GA, KY, MD, MS, NY, NC, OH, PA, SC, TN, and VA. $250K expected to be available, up to 10 awards anticipated. Responses due 5/29/09. For more info, go to: http://www.arc.gov/images/rfp/ARC%20Renewable%20Energy%20For%20Schools%20Program.pdf.

RFP for Transformational Energy R&D, DOE, American Recovery and Reinvestment Act (June 2)

The U.S. Department of Energy, Advanced Research Projects Agency (a new DOE Agency created specifically to foster R&D of transformational energy related technologies) requests proposals for Advanced Research Projects. Transformational technologies are defined as those that disrupt the status quo; not merely better than current technologies, but significantly better. This RFP supports the Nation's need to overcome the threats posed by climate change and energy security. Concept papers are required, and are due 6/2/09. Final proposals accepted by invitation only. For more info, contact Bradley Poston at bradley.poston@hq.doe.gov or go to: http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=47045. Refer to Sol# DE-FOA-0000065. (Grants.gov 4/27/09) (FBO 4/29/09)

RFP for Rural Energy Audits and Renewable Energy Development, DOA, American Recovery and Reinvestment Act (June 9)

The U.S. Department of Agriculture requests proposals for the Rural Business Enterprise Grant Program. USDA seeks proposals from eligible entities to provide energy audits and renewable energy development assistance for agricultural producers and rural small businesses. Individual awards NTE $100K. Responses due 6/9/09. For more info, go to: http://www.rurdev.usda.gov/rbs/. Refer to Sol# RDBCP-09-RBEG-ARRA. (Grants.gov 3/27/09)

RFP for Energy Innovations Small Grant Program, CEC (June 11)

The California Energy Commission requests proposals for the Energy Innovations Small Grant Program – Electricity Program. EISG funds the early development of innovative energy RD&D projects. Projects must target one of the following: Industrial/Agriculture/Water End-Use Efficiency; Building End-Use Efficiency; Environmentally Preferred Advanced Generation; Renewable Generation; Energy-Related Environmental Research; and Energy Systems Integration. Proposed projects must be clearly relevant to California's electric market. Individual hardware awards NTE $95K, individual modeling awards NTE $50K. Responses due 6/11/09. For more info, go to: http://www.energy.ca.gov/contracts/smallgrant/09-01_electricity/index.html. Refer to Sol# 09-01.

RFP for American Recovery Program, Department of Commerce (June 30)

The U.S. Department of Commerce, Economic Development Administration (EDA) requests proposals for the EDA American Recovery Program, for projects that advance economic growth by assisting communities and regions experiencing chronic high unemployment and low per capita income to create an environment that fosters innovation, promotes entrepreneurship, and attracts increased private capital investment. Priority consideration will be given to regions that have experienced sudden and severe economic dislocation and job loss due to corporate restructuring. Applicants may apply for the following programs: 1) Public Works and Economic Development Facilities Program, and 2) Economic Adjustment Assistance Program. Responses due 6/30/10. For more info, including Region-specific contacts, go to: http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=45786. Refer to Sol# DA03102009RECOVERYACT. (Grants.gov 3/5/09)

RFP for Green Jobs Training, DOL, American Recovery and Reinvestment Act (June 30)

The U.S. Department of Labor announces its intent to request proposals for Recovery Act Competitive Grant Opportunities. DOL anticipates $500 million will be targeted at research, labor exchange, and job training projects that prepare workers for careers in energy efficiency and renewable energy as defined in the Green Jobs Act: Energy efficient building, construction, and retrofitting; renewable electric power; energy efficient and advanced drive train vehicles; biofuels; deconstruction and materials use; energy efficiency assessment for residential, commercial, or industrial sector, and manufacturing of sustainable products using sustainable processes. $250 million will be targeted at other high growth and emerging industry sectors. DOL intends to post the RFPs no later than 6/30/09. For more info, go to: http://www.grants.gov/search/search.do?mode=VIEW&flag2006=false&oppId=46337. (Grants.gov 3/26/09)

RFP for Environmental Implications of Emerging Technologies, NSF (September 15)

The National Science Foundation requests proposals for Environmental Implications of Emerging Technologies, for research to develop and test the environmental effects of new technologies. Areas of interest include, but are not limited to: The development and refinement of sensors and sensor network technologies; innovative production processes, waste reduction, recycling, and industrial ecology technologies; and evaluation of the effect of increased usage of renewable resources on water supply and land use. Individuals awards generally NTE $80K each. Responses due 9/15/09. For more info, contact Paul Bishop at pbishop@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030. Refer to Sol# PD-09-1179. (Grants.gov 3/23/09)

RFP for Energy for Sustainability, National Science Foundation (September 15)

The National Science Foundation requests proposals for the Energy for Sustainability Program. This program supports research and education in energy production, conversion, and storage, and is focused on energy sources that are environmentally friendly and renewable, including solar, wind and biomass. Average individual awards $100K. Responses due 9/15/09. For more info, contact Trung Nguyen at tnguyen@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026. Refer to Sol# PD-09-7644. (Grants.gov 3/6/09)

RFP for Thermal Transport Processes, National Science Foundation (September 15)

The National Science Foundation requests proposals for the Thermal Transport Processes Program, for engineering research aimed at gaining a basic understanding of the microscopic and macroscopic levels of thermal transport phenomena (heat and mass transfer) underlying energy conversion and conservation, the synthesis and processing of materials, cooling and heating of infrastructure and equipment, and more. An active understanding of thermal transport in energy conversion and conservation processes is vital to reduce the nation's dependence on petroleum. Awards NTE $100K. Responses due 9/15/09. For more info, contact Theodore Bergman at tbergman@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13367. Refer to Sol# PD-09-1406. (Grants.gov 3/9/09)

RFP for National Lab Partnerships for Energy Research, DOE (November 9)

The U.S. Department of Energy requests proposals for Experimental Program to Stimulate Competitive Research (EPSCoR); Building EPSCoR-State/National Laboratory Partnerships. This RPF will support collaborative partnerships between National Laboratories and academic or industrial researchers to conduct nationally competitive, energy-related research. $1.7 million expected to be available, maximum awards generally $600K. Pre-applications are required and are due 6/5/09, final proposals due 11/9/09. For more info, contact Marilyn Oyler at marilyn.oyler@science.doe.gov or go to: https://e-center.doe.gov/iips/faopor.nsf/UNID/33EE94649665FEA8852575A1006CCB0A?OpenDocument. Refer to Sol# DE-PS02-09ER09-11. (Grants.gov 4/23/09)

RFP for Renewable Energy Resources, Los Angeles (March 11, 2010)

The Los Angeles Department of Water and Power (LADWP) has issued a rolling request for proposals (RFP) designed to seek renewable energy proposals on a continuous basis throughout the year. The rolling RFP calls for proposals for approximately 1,000 GWh per year of renewable energy resources such as solar, wind and geothermal power. This amount represents nearly 4% of LADWP's power sales.

LADWP is looking to acquire renewable energy resources through either immediate ownership of power generation facilities or through long-term power purchase agreements. Under the terms of the new RFP, green power providers can submit their proposal anytime throughout the year. LADWP will open and consider the proposals on a monthly basis, and could then begin evaluation and negotiation of a particular project right away.

LADWP says it will give preference to proposals that offer immediate facility ownership or to long-term PPAs that have an ownership option. Additionally, LADWP is targeting solar projects located in the high deserts of California, close to LADWP's existing transmission system. The application deadline is March 11, 2010.

RFP for Smart Grid Investments, DOE, American Recovery and Reinvestment Act (March 31, 2010)

The U.S. Department of Energy announces its intent to request proposals for the Smart Grid Investment Grant Program. Through this program, DOE seeks to stimulate the rapid deployment and integration of advanced digital technology that is needed to modernize the nation's electric delivery network for enhanced operational intelligence and connectivity. The program will support projects that promote deployment, including development of component technologies. Individual award range anticipated to be $500K to $5 million. The RFP will open on or about 6/17/09. Three due dates anticipated: 7/29/09, 12/2/09, and 3/31/10. For more info, contact Donna Williams at Smart-Grid.NOIComments@hq.doe.gov or go to: https://e-center.doe.gov/iips/faopor.nsf/UNID/39C0D96768F2083F8525759A0068F216?OpenDocument http://www07.grants.gov/search/search.do;jsessionid=9x3VJydGP2TfWHPRK9mfnphLqsWpm1TQmDJTzS6XLDp1QJKpb2SM!-1267850137?oppId=46833&flag2006=false&mode=VIEW. Refer to Sol# DE-FOA-0000058. (Grants.gov 4/16/09)

Upcoming Events

12th Annual Congressional Renewable Energy + Energy Efficiency EXPO + Forum, May 14 (Washington, DC)

From Sustainable Energy Coalition:

On May 14, the Sustainable Energy Coalition - in cooperation with Members of the U.S. House of Representatives and U.S. Senate Renewable Energy & Energy Efficiency Caucuses - will host the 12th annual Congressional Renewable Energy & Energy Efficiency EXPO + Forum.

This year's EXPO will bring together nearly fifty businesses, sustainable energy industry trade associations, government agencies, and energy policy research organizations to showcase the status and near-term potential of the cross-section of renewable energy (biofuels/biomass, geothermal, solar, water, wind) and energy efficiency technologies. (A list of the participating exhibitors is provided below.)

A morning news conference will feature Members of the U.S. Congress while afternoon speakers will discuss the role sustainable energy technologies can play in meeting America's energy needs.

As Congress, the Administration, the business community, environmental advocates, and American voters search for options to address ways to stimulate the economy, "green jobs," higher energy costs, increased reliance on energy imports, and the potential threat posed by rising levels of greenhouse gas emissions, the EXPO will help address the role that sustainable energy technologies might play.

This will include not only the technical aspects of renewable energy and energy-efficient technologies but also related issues such as economics, jobs potential, environmental benefits, current and near-term market potential, model programs in the public and private sectors, and institutional, financial and legal barriers.

The EXPO is free, open to the public, and no RSVPs are required.

Please Share This Information with Members of Your Congressional Delegation as well as Other Interested Businesses, Organizations, Government Officials, Academic Contacts, Members of the Media, and Individuals.

Where: Cannon House Office Building – Caucus Room
U.S. House of Representatives
Independence Avenue and New Jersey Avenue SE; Washington, DC

When: Thursday, May 14, 2009
9:00 am – 5:00 pm (exhibits open for viewing)
11:00 am – News Conference (featuring Members of Congress to be announced)
12:00 noon – 4:30 pm (speakers to be announced)

For More Information: Contact Ken Bossong, Sustainable Energy Coalition* 301-270-6477 x.23; kbossong614@yahoo.com

International Geothermal Days Slovakia 2009, May 26–29 (Slovakia)

From the organizing committee: Geothermal Conference and Summer School under the Auspices of the Minister of Environment of the Slovak Republic and the Minister of Economy of the Slovak Republic to be held on 26th to 29th May 2009 in Častá Papiernič ka—Slovakia

The idea of the conference is to discuss the situation with respect to the energy and particularly renewable energy issues in the Visegrad Countries, Western and Central/East European countries. From the EC Member States and pre-accession countries, a limited number of experts will be invited as observers. The motto of the event is "National Development of Geothermal Energy Use." During the Slovakia 2009 – International Geothermal Days, several themes will be introduced and discussed. These are:

- Geothermal District Heating Projects: Technical and Economic Feasibility for Organization in Central European conditions;
- Geothermal Electricity Production: Possibilities, Technical and Economic Feasibility in
- Central European Region;
- Geothermal Legislation: Organizing Good Legal and Economic Support for Geothermal
- Energy Development in Central European Region;
- Organization of a Successful Development of Geothermal Project;
- Co-generation Geothermal Projects in Combination with other RES or Fossil Fuels;
- Possibilities for Wider Introduction of Agricultural and Industrial Uses of Geothermal
- Energy in Central European Countries;
- Geothermal Energy Use in Spa and Balneology Centers in Central European Region

In addition, an International Course on Organization of Successful Development of a Geothermal Project shall be organized with the aim to enable orientation for the full process of geothermal projects development, needed for definition of necessary legal, financial and organizational support and composition of successful development strategies.

For a tentative program and further details, see http://www.erdwaerme-zeitung.de/meldungen/internationalgeothermaldaysslovakia20098743256789.html.

GEA: U.S. Geothermal Finance and Development Workshop, June 3 (Seattle, WA)

GEA will hold its next in a highly successful series of Finance and Development Workshops in Seattle, WA on June 3.

"The West has a huge untapped geothermal energy potential," according to Karl Gawell, GEA's Executive Director. "This workshop will help realize this potential by encouraging collaboration between leading geothermal developers, finance and investment specialists, government officials, lawyers, and technology experts from around the nation."

The day-long workshop is being held in cooperation with the Mayor of Seattle's office and with the support of Gold Level Sponsors Ormat, Pratt and Whitney Power Systems, and Enel North America. It will include an update on the U.S. geothermal market and keynote presentations by the Mayor of Seattle, Greg Nickels, and other notable government and industry leaders.

Panels and discussion will include:

- Project development, including presentation from leading project developers on new geothermal projects and keys to successful development
- Technology, including a basic tutorial on understanding geothermal resources and technology and discussion on new and future developments in geothermal technology
- Finance, including information on the federal stimulus, the status of federal and state incentives, and approaches to project financing
- Community/environmental issues and tribal and power company perspectives, with environmental and tribal leaders speaking to geothermal issues and benefits on a local scale.

For more information please go to www.geo-energy.org or contact Kathy Kent at GEA by emailing kathy@geo-energy.org.

GEA: Direct Use/Small Power Finance Workshop, Oregon Institute of Technology (OIT), August 12-13 (Klamath Falls, OR)

GEA in cooperation with OIT will host a geothermal direct-use and small power workshop in Klamath Falls, Oregon in the summer of 2009. The format would be an all day workshop with a site tour the following day. Included in the workshop agenda will be the how-to's of financing a small power/direct use project, direct use technology, presentations of small projects and direct use projects today and information about drilling and exploration for such projects. For more information contact Kathy Kent at kathy@geo-energy.org.

GEA: Geothermal Energy Expo/GRC Annual Meeting, October 4-7 (Reno, NV)

The 2009 Geothermal Energy Expo and GRC Annual Meeting will be held October 4-7 at the Peppermill in Reno, Nevada. For more information about the Geothermal Energy Expo, visit: http://www.geo-energy.org.

Renewable Energy Indonesia 2009 Trade Show, October 14–17 (Jakarta, Indonesia)

Indonesia has 45% of the world's geothermal energy resources. Renewable Energy Indonesia 2009 is the 5th international exhibition for all renewable energy technologies. It will be held at the International Exhibition Centre at Kemayoran, October 14–17, 2009.

For more information: www.pamerindo.com.

XVII Annual Congress and Annual Assembly, Mexican Geothermal Association, November 13 (Mexico)

The Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana) will hold its XVII Annual Congress and Annual Assembly by November 13, 2009, at the CFE (Comisión Federal de Electricidad) offices in Morelia, Mich., Mexico.

Preliminary program:
9:00 – 10:00 hours: Registration
10:00 – 13:00 hours: Technical presentations
13:00 – 14:00 hours: Lunch
14:00 – 17:00 hours: Technical presentations
17:00 – 18:30 hours: Ordinary Assembly

Fees: AGM's members: 750 Mexican pesos (~55 USD). Non-members: 1,100 Mexican pesos (~85 USD). Students and retired: 50%. Fee includes lunch, transactions and coffee breaks.

Deadlines:
Submission of abstracts: July 24
Acceptation notification: August 7
Submission of extended papers: September 4
Pre-registration: November 3

Complete call for papers (in Spanish) at: http://www.geotermia.org.mx (See: Congreso 2009)

More information: Luis C.A. Gutiérrez-Negrín (AGM's secretary): l.g.negrin@gmail.com.

GEA Weekly Update
A newsletter for the geothermal industry 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