

Geothermal Energy Weekly

A publication of the
Geothermal Energy Association

~formerly the GEA Weekly Update~



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July 20, 2010

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<http://www.geo-energy.org/updates.aspx>



National News

Natural Resources Committee Passes CLEAR Act With Geothermal Amendment

On July 15, The House Natural Resources Committee passed the "Consolidated Land, Energy, and Aquatic Resources (CLEAR) Act" (H.R. 3534), by a vote of 27 to 21, was introduced by Committee Chair Nick Jo Rahall (D-WV) on September 8, 2009. As an amendment to the legislation, the committee included revised text of HR 3709 on a roll call vote of 26–19. The legislation sponsored by Rep. Jay Inslee [D-WA] is called The Geothermal Production Expansion Act and amends terms under which leasing is allowed under the Geothermal Steam Act of 1970, allowing the sale of small adjacent tracts to new discoveries on a non-competitive basis. The amendment included several modifications from the original to improve "transparency" according to its sponsor.

The CLEAR Act was prepared in response to the problems plaguing the Minerals Management Service. According to the House Natural Resource Committee: "The legislation would abolish for good the scandal-ridden Minerals Management Service and divide it into three separate entities: The Bureau of Energy and Resource Management (BERM), to manage leasing & permitting and conduct necessary environmental studies; The Bureau of Safety and Environmental Enforcement (BSEE), to conduct all inspections and investigations related to health, safety and environmental regulations; and The Office of Natural Resource Revenue (ONRR), to collect all offshore and onshore oil and gas and renewable energy-related revenues." The legislation also adopts a competitive leasing program for wind and solar projects on federal land

See a previous article on H.R. 3709 in *Geothermal Energy Weekly's* March 5 edition, http://www.geothermal.org/pdf/updates/2010/Geothermal_Energy_Weekly_March_5_2010.pdf.

See <http://www.opencongress.org/bill/111-h3709/show>.

For a section-by section description of the CLEAR Act go to:

<http://resourcescommittee.house.gov/images/Documents/clear%20act%20-%20section-by-section%20-%20july%2012%202010.pdf>

Reid Introduces Geothermal Exploration Bill to U.S. Senate

On July 15, U.S. Senate Majority Leader Harry Reid (D-NV) introduced S.3586, a bill "to promote the mapping and development of United States geothermal resources by establishing a direct loan program for high risk geothermal exploration wells." Under the Geothermal Exploration Act the Department of Energy would assist with high up-front costs of exploration and drilling by providing loans to geothermal energy developers. He was joined by Senators Jon Tester (D-MT), Mark Udall (D-CO), Jeff Merkley (D-OR) and Mark Begich (D-AK) in introducing the bill.

Reid also introduced a bill, with a companion bill introduced by Nevada Republican Congressman Dean Heller, which would establish a competitive leasing program for wind and solar projects on federal land and establish local and state revenue sharing for renewable energy projects similar to the federal-state-county share adopted for geothermal projects in the 2005 Energy Policy Act. Reid said the new revenue provisions "will move Nevada's clean energy economy forward and make job-creating renewable energy projects a win-win for our state, counties and wildlife."

See <http://www.sustainablebusiness.com/index.cfm/go/news.display/id/20685> and

<http://www.brighterenergy.org/13784/news/legislation/senators-float-clean-energy-ideas-as-talks-continue-on-climate-bill/>.

Sen. Reid Hopes to Bring Climate Bill to Floor Next Week

Democratic leaders and the White House, unable to pass sweeping climate measures are now putting together various pieces of legislation in order to pass something rather than nothing, as the new ideal seems to be. Senate Majority Leader Harry Reid said he will bring the modified energy package to the floor the week of July 26.

The package is expected to include four parts: an oil spill response, a clean energy and job creation title, a tax package, and greenhouse gas (GHG) emissions restrictions on the electric utility industry. While some say passing a limited bill will prevent the possibility of a larger package in the future, others see it as the only way to pass climate legislation this year.

"If not now, when?" Reid said. "We have to move to do something about our dependence on foreign oil. That's what this legislation is all about." He added that it is also focused on stimulating the economy with new jobs.

See http://www.nytimes.com/2010/07/15/us/politics/15energy.html?_r=2 and <http://www.eenews.net/public/EEDaily/2010/07/15/4>.

Geothermal Power Booming in Nevada as GEA Prepares for Utilities Workshop

Press Release, July 19 – If Nevada were a country, it would be the 9th largest producer of geothermal power in the world today, but the state is poised to climb even higher in the rankings – and not just for the bragging rights. According to new facts from the Geothermal Energy Association (GEA) compiled in anticipation of their upcoming GEA Geothermal Energy and Utilities, Co-ops and Public Power Workshop in Las Vegas, the growth of the geothermal industry in Nevada could be worth up to \$22.5 billion over the next 30 years.

Nevada could become the leading geothermal energy producer in the coming years if growth and production trends continue on their current trajectories. Nevada's 86 planned or developing geothermal power plants have the potential add up to 3,686.4 Megawatts of geothermal power to Nevada's energy portfolio, power for 2.6 million homes - enough to meet the electricity needs of 100% of the homes in the Las Vegas metropolitan area.

Fourteen geothermal power plants are in latter stages of development in the state. These projects will immediately create an estimated 1,400 construction jobs in Nevada once groundbreaking has occurred.

"This high volume of geothermal projects moving into final stages of development will likely generate a massive geothermal boom in Nevada," said GEA Executive Director Karl Gawell. "Along with the millions of dollars in federal and private investment come thousands of new jobs."

Twenty recipients in Nevada were awarded a combined \$73.6 million in Department of Energy funding, via the American Recovery and Reinvestment Act (ARRA) and FY 08 appropriations. The infusion of ARRA funding alone into geothermal development in Nevada is expected to create roughly 1,100 jobs in the state.

Nevada has also generated over \$44 million from Bureau of Land Management geothermal leasing activities. This includes \$4.6 million in royalties and over \$49 million in bonus bids. \$33 million of these funds were to be distributed to the State of Nevada and the specific counties involved.

The state of Nevada and geothermal counties should receive an additional \$12.9 million from recent Bureau of Land Management leases. As money continues to flow in from leases and royalties, which will grow with geothermal project development, rural counties are anticipating an economic boom.

Financial benefits are not the only windfalls that Nevada receives from geothermal power. If all of the developing projects in Nevada come online, the state's total geothermal capacity will offset more than 23.3 million metric tons of carbon dioxide emissions annually. This is equivalent to taking almost 4.5 million vehicles off the road each year.

The GEA Workshop scheduled for July 22 in Las Vegas, Nevada, will bring together investor owned utilities, power cooperatives, and public power authorities across the West to meet and learn more about the potential contribution geothermal power can make to meet their power service obligations.

For more information: http://geo-energy.org/workshops/workshop_July22.aspx

For press credentials, please contact Garret Drexler at garret@rosengrouppr.com or 646-695-7042.

Company News



U.S. Geothermal: Agreement Reached for San Emidio; TAS to Manufacture

Press Release, July 19 — U.S. Geothermal Inc., a renewable energy company focused on the development, production and sale of electricity from geothermal energy, announced today that it has entered into an agreement for the engineering procurement and construction of a new 8.6 net megawatt ("MW") modular binary cycle power plant at its San Emidio project.

TAS Energy Inc. of Houston, Texas through a FORTUNE 500® engineering, procurement and construction company ("EPC Contractor") will manufacture the plant. The agreement calls for the EPC Contractor to provide a non-recourse project loan for the \$30 million construction capital together with an Engineering, Procurement and Construction services contract for Phase 1 of the San Emidio project in northern Nevada. The construction loan is expected to be repaid with long term financing from available sources such as the Section 1705 loan guarantee program from the U.S. Department of Energy ("DOE") which we expect to apply for in the near future. Under the terms of the agreement, the parties have established an exclusivity period during which final terms and conditions of certain definitive agreements will be negotiated.

"This is a fully financed, turnkey engineering, procurement and construction arrangement," said Daniel Kunz, President and CEO of U.S. Geothermal Inc. "We are excited to get construction started this year, which will insure that our 35 net MW San Emidio development project qualifies for the special 30% Investment Tax Credit cash grant."

The project will construct a new water-cooled binary cycle power plant with an estimated output of 8.6 net MW of renewable baseload electricity. No well drilling is required for Phase 1 since production and injection wells are currently in use by the existing San Emidio power plant which will be replaced with the new plant. The anticipated Phase 1 commercial operations date is 4th quarter of 2011.

The \$200 million San Emidio project is a planned two-phase development. The \$30 million Phase 1 is planned at 8.6 MWs net and the \$170 million Phase 2 is planned at 26.4 MWs net. Phase 2 is expected to be completed in late 2013, subject to satisfactory completion of new well drilling, a transmission upgrade and obtaining the required permits. Phase 2 reservoir resource expansion efforts are already underway using funding assistance from a \$3.77 million DOE Innovative Exploration Grant awarded to U.S. Geothermal in 2009. Approximately 3 MWs of the Phase 1's output is sold through 2017 under the terms of an existing power purchase agreement ("PPA") with Sierra Pacific, a subsidiary of NV Energy. U.S. Geothermal Inc. is currently negotiating with a number of interested parties for a new 35 MW PPA for the project.

See http://www.marketwatch.com/story/us-geothermal-initiates-30-million-vendor-financed-construction-agreement-for-san-emidio-2010-07-19-83580?reflink=MW_news_stmp.

Renewable Energy and Climate Change



DOE Announces Technical Assistance Program to Support Recovery Act Projects

Press Release, July 15 — The Department of Energy (DOE) today announced the launch of a technical assistance program that will support projects funded under the American Recovery and Reinvestment Act through DOE's State Energy Program (SEP) and Energy Efficiency and Conservation Block Grant Program (EECBG). Funded with up to \$25 million under the Recovery Act, the program will provide states, cities, and tribes with the tools and resources they need to implement successful and sustainable renewable energy projects, such as wind farms and solar systems, and deploy cost-effective, clean, and reliable energy-saving technologies in buildings and infrastructure nationwide. The Technical Assistance Program (TAP)—which is jointly-funded with EECBG and SEP Recovery Act funds—will accelerate project execution, improve program performance, and increase the return on Recovery Act investments. This effort is another way that the Department is creating green jobs, making homes and businesses more energy efficient, and installing renewable energy systems across America.

For more, see http://apps1.eere.energy.gov/news/progress_alerts.cfm/pa_id=367.



State News

California: Consideration of State Renewable Electricity Standard Postponed

The Air Resources Board has postponed consideration of the proposed California Renewable Electricity Standard following a request from Governor Arnold Schwarzenegger. Previously scheduled for July 22, the public hearing will now take place September 23 at 9:00 a.m. The Legislature and the Governor will use the postponement to work on passing SB 722, which would ensure that 33% of California's energy comes from renewable energy sources, by the end of the legislative session (August 31).

The Governor's request stated: "I understand that the Air Resources Board is scheduled to consider adoption of the 33% renewable energy proposal at your July Board Hearing. I am encouraged that the approach you have developed will effectively further California's efforts to secure at least one-third of our energy needs from clean and renewable resources by 2020. In light, however, of ongoing discussions with legislative leaders to develop a bill that I can sign, I am requesting that the Air Resources Board postpone consideration of the proposal until your scheduled September hearing. If no legislation is enacted by that time the Board will be ready and able to adopt the regulations at that time."

He added, "I am confident that either through legislation this year or by the Board adoption of your proposed regulation in September, California's 33% renewable standard will further establish California's legacy as a worldwide environmental and economic leader."

Public comments may be submitted and must be received no later than 12:00 noon, September 22, 2010. Submit to:

Postal mail: Clerk of the Board, Air Resources Board
1001 I Street, Sacramento, California 95814

Electronic submittal: <http://www.arb.ca.gov/lispub/comm/bclist.php>

See <http://www.arb.ca.gov/regact/2010/res2010/schwarzenegger.pdf> and
<http://www.arb.ca.gov/regact/2010/res2010/respostponmentnotice.pdf>.

California: U.S. Forest Service Approves Sunrise Powerlink Transmission Line

San Diego Gas & Electric (SDG&E) will move forward with the 1.9 billion, 120-mile Sunrise Powerlink transmission line following an environmental review and approval from the U.S. Forest Service. The new power line will transport renewable energy such geothermal power from the Imperial Valley to the San Diego region.

The 500-kilovolt Sunrise Powerlink line will carry at least 1,000 MW of clean power to approximately 650,000 homes and is expected to be completed in 2012. The project will create 400 to 500 construction jobs and will account for over \$100 million in annual energy savings.

The environmental review process was especially sensitive to impacts of a 19-mile segment of the transmission line running through the Cleveland National Forest. SDG&E said they planned working with the communities impacted by project construction.

Following the decision Gov. Arnold Schwarzenegger said: "California has two dozen renewable energy projects looking to break ground this year alone that will create thousands of jobs and billions of dollars of investment in our state. But, many of these projects will be built in remote locations in the desert, and we need more transmission lines, like the Sunrise Powerlink, to transport this renewable energy to population centers."

He added, "I applaud the U.S. Forest Service for approving this important project that will play a critical role in bringing clean, renewable electricity to the cities where people live and work and improving our power grid's reliability. These are exactly the types of projects California needs to transition to a brighter clean-energy future." See <http://www.marketwatch.com/story/us-forest-service-approves-sdges-sunrise-powerlink-2010-07-13>.

See also <http://www.sdge.com/sunrisepowerlink/>.

Nevada: Lithium Mine to Double Capacity and Install Geothermal Plant

Installation of a geothermal power plant is part of an expansion project for the nation's only lithium mine, located in Esmeralda County. The geothermal plant will make the operation electrically self-sufficient.

"Using Nevada's solar and geothermal resources to nearly completely power our operation, we are able to reduce energy costs and make the operation more efficient," Nevada operations manager Joe Dunn said in a statement.

The expansion, partially funded by a \$28.4 million federal stimulus grant from the Department of Energy, has already created 29 new jobs and is expected to employ another 50 people. The project is expected to double the capacity of lithium carbonate produced by 2013.

See <http://www.lvrj.com/business/lithium-mine-expanding-in-esmeralda-county-98397709.html>.



International News

Iceland: Björk Protests Geothermal Company Takeover

Iceland's most renowned celebrity, Björk, is heavily involved in a protest over the takeover of Icelandic power company HS Orka by the Canadian Magma Energy. Magma Energy's plan to increase its holding to 98.5% is set for completion this month. Magma would hold rights to exploit geothermal resources on the Reykjanes peninsula for the next 65 years and plans to invest \$560m over the next six years.

The singer likened the deal to "the leftovers from the corruption that brought us the bank crash," stating that the country's famous geothermal reserves should be used to forge a new "relationship between nature and technology" rather than becoming "third world slaves" by selling assets, as she told the Financial Times.

"Members of parliament! We, Icelanders, ask you for a transparent, open discussion and reconsideration concerning the sale of access to our natural resources," Björk said.

"What we are doing is using the resources and paying royalties to the owners," Alison Thompson, the company's vice president for corporate relations told press. Magma said it was open to reducing the time period and selling a stake of up to 25% to Icelandic pension funds.

See <http://www.ft.com/cms/s/0/f72d3de0-9294-11df-9142-00144feab49a.html> and <http://af.reuters.com/article/energyOilNews/idAFLDE6611ZV20100719>.

The Netherlands: Geothermal Drilling Begins in The Hague

A project to drill a geothermal heating system is underway in The Hague, the Netherlands, and is expected to be completed in about three months. The Aardwarmte De Haag project, a collaboration between the city of The Hague, Eneco, and E.ON Benelux, will provide heat and hot water to 4,000 homes and 20,000 ft² of office space.

It is a collaboration between the city of The Hague, energy companies and housing corporations Staedion, Vestia and Haag Wonen, and will involve drilling a pair wells. The LOC 400, operated by the Northern Dutch Drilling Company, will spud injection and production wells in front of a hospital in the city centre to depths of 2,400 m and 2,700 m to run a closed circuit.

See http://www.rechargenews.com/energy/geothermal/article221595.ece?WT.mc_id=rechargenews_rss and http://dutchdrilling.com/NDDC/English/Project/The_Hague_Geothermal_project_ADH.aspx.

Spain: Testing Underway for Metro Geothermal System

A collaborative project is measuring Madrid's geothermal potential in hopes of installing a geothermal system to heat the platforms, offices, and commercial areas of the Pacifico Metro station. Sensus, working with Termoterra

and IFTEc GeoEnergía, has installed energy meters to monitor three geothermal heat exchangers. The system will have a maximum power of 120 kW to 20 kW for heating and air conditioning.

See <http://www.renewableenergyfocus.com/view/10949/measuring-madrid-underground-s-geothermal-energy>.



<http://www.geo-energy.org/updates.aspx>



Notices

New This Week

Call for Abstracts: Renewable Energy World Conference (August 6)

The Geothermal Energy Association is a partner and supporting association for the Renewable Energy World Conference & Expo North America, to be held March 8-10, 2011 in Tampa, FL and now draws your attention to the conference call for abstracts - due on August 6. This opportunity ensures geothermal sector visibility alongside other renewables.

GEA participates on the steering committee, conference planning, a networking breakfast, and the Geothermal Track sessions.

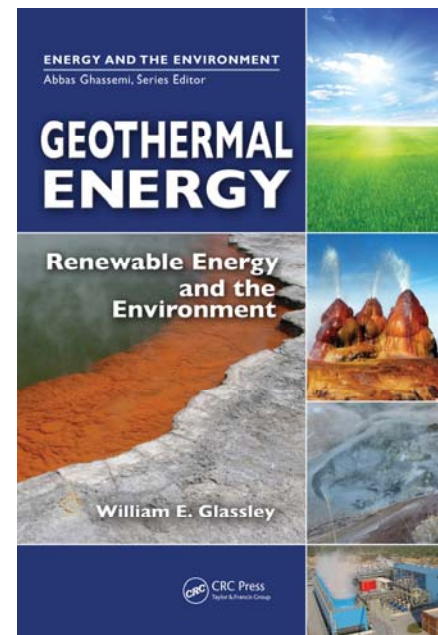
In 2010, the event featured over 30 educational conference sessions in 8 technical tracks covering Biomass, Policy Market & Finance, Solar, Utility Integration, Wind Power, Geothermal, and Hydro. There were three geothermal conference sessions: Technology and Applications; Resource Development and Investment; and Markets, Trends and Policies. Twelve GEA member companies exhibited in the Expo Hall, and many other companies representing aspects of the geothermal industry were present. GEA also maintained a booth space with educational materials and facilitated networking.

If you submit an abstract let us know and we will keep an eye out for your submission. Abstracts are now submitted online at www.renewableenergyworld-events.com.

Questions or submission problems: Call +1-918-831-9736 or email rewna-conference@pennwell.com.

New Book Provides Case Studies on Geothermal Energy Topics

A new book on geothermal energy, entitled *Geothermal Energy: Renewable Energy and the Environment* has just been released by CRC Press. The author is William E. Glassley, who is with The Energy Institute, University of California, Davis. Initial chapters deal with the physics of heat generation and heat transfer, thermodynamics, hydrology, geochemistry and basic earth sciences, providing a rigorous introduction to the principles that determine the characteristics of geothermal resources. Subsequent chapters deal with resource exploration and assessments, drilling, power generation, direct use applications and heat pumps. The book concludes with chapters that consider environmental issues, the economics of geothermal applications and project development guidelines, and potential future developments that could affect geothermal energy availability. Real world examples are used throughout the book to demonstrate key processes and considerations. Case studies conclude each chapter, along with extensive references and links to useful internet sites. Problem sets are included for each chapter and a teaching guide is also available. (CRC Press, Taylor and Francis Group, 311 pages,



approximately 20 color plates and 150 figures, \$119.95. ISBN 9781420075700).

Current Notices

Colorado Geothermal Working Group Presentations Posted on New Group Site

Presentations from the May 27 Geothermal Working Group meeting at the Denver Museum of Nature and Science are now posted at a new group site called Geothermal Energy in Colorado:

<http://coloradogeothermal.groupsite.com/>. By joining and participating in this site you will have access to geothermal resources, notices and communications, and networking opportunities. All members can post geothermal events to a calendar, join a forum for discussions, and access an index for finding contacts and resources.

Geothermal Power Plant Technician Program in Iceland

From the Keilir Institute of Technology: Recent developments within the technologies of geothermal power plants have led the expansion of technical training in Iceland to cope with the demand for technicians. The Geothermal Power Plant Technician course at the Keilir Institute of Technology is set to address the growing need for skilled geothermal power plant technicians as well as health, safety and environmental issues.

The Geothermal Power Plant Technician course at Keilir is split into two separate programs, which are then spread across two years. The first year is an Associate of Applied Science Degree (worth 60 ECTS), where students receive hands-on training in running and maintaining power plants. The second year is an Associate of Science Degree (also worth 60 ECTS), which is more focused on the academic methods and techniques used for planning daily operations, maintenance and purchasing equipment/spare parts – the combination of the two results in a total of 120 ECTS.

Students will show a great deal of initiative, implement improvements and perform follow-up actions throughout the program. Students will also be trained with a 'sense of ownership' towards running, operating and maintaining geothermal power plants. This will of course be beneficial towards the impact of long-term employment opportunities.

In addition, students will learn how to significantly reduce maintenance costs through specialized training, without the need for a manufacturer's service. The Geothermal Power Plant Technician Program is available from September 2011 at the Keilir Institute of Technology in Keflavik, Iceland.

To find out more regarding geothermal power in Iceland, the course and Keilir visit: <http://en.keilir.net> or contact Arnbjorn Olafsson, Department Manager at Keilir Institute of Technology.

California Transmission Planning Group Releases Phase 2 Study Plan

The 2010 CTPG Phase 2 Study Plan incorporates "comments and recommendations of many stakeholders and entities with roles in the planning, development, and implementation of transmission facilities, most notably the California Renewable Energy Transmission Initiative and the State's principal energy agencies," states the report.

"As more resource procurement scenarios become available and clearer, CTPG envisions that the transmission plans it develops will require additional reviews and further studies to reflect such updated scenarios as well as other relevant updates, including renewable resource development progress and changes in circumstances or regulations."

The report is available at http://www.ctpg.us/public/images/stories/downloads/2010-05-07_final_phase_2_ctpg_study_report.pdf.



Employment

Employment Opportunities

For details on listed employment opportunities, visit http://geo-energy.org/empl_opport.aspx.

GIS Specialist, Nevada Geothermal Power, Reno, NV

Please send resumes to careers@nevadageothermal.com

Vice President Geology, Western US

Please send resumes to Bstevens@stmassociates.com

Geothermal Openings, NREL, Boulder, CO

Go to http://www.nrel.gov/employment/job_openings.html and search "geothermal"

Drilling Manager, NV

Contact:

Andrew Matkovic / Vice President Clean Tech & Energy
(216) 539-7668 or andrewmatkovic@carmongroup.com

Geophysicist, Calpine, The Geysers, CA

To apply online, see

https://www.hrapply.com/calpine/AppJobView.jsp?link=3645&page=AppJobList.jsp&skimSessionName=com.hrlogix.view.cont.app.JobListTable&skimName=requisition.requisition_id&skimNdx=4&op=reset.

Geothermal Operations Manager, CalEnergy Operating Corporation, Calipatria, CA

Contact Lori Rinkert, Sr Recruiter, MidAmerican Energy at 515-281-2707 or lsrinkert@midamerican.com

Renewable Energy Mechanical/Systems Engineer, Idaho International Laboratory, ID

Please contact:

Vanessa Van Dyk at Idaho National Laboratory: Vanessa.VanDyk@inl.gov, 208-526-6325
OR apply on line at: www.inl.gov/careers

Project Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.
andrewmatkovic@carmongroup.com or (216) 539-7668

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com



Requests for Proposals

Closing This Week

Agricultural and Rural Energy Audits and Renewable Energy, DOA (July 26)

The U.S. Department of Agriculture requests proposals for Energy Audits and Renewable Energy Development Assistance Grants. The purpose of this RFP is to help agricultural producers and rural small businesses reduce energy costs and consumption and help meet the nation's critical energy needs. This RFP will provide support to agricultural producers and rural small businesses for energy audits and renewable energy development assistance. \$2.4 million expected to be available, up to 30 awards anticipated. Responses due 7/26/10. For

more info, including Regional contacts, go to:

<http://www.grants.gov/search/search.do?mode=VIEW&opId=54851>. Refer to Sol# RDCP-10-REAP-AUDITS. (Grants.gov 5/27/10)

Climate Adaptation and Disaster Resilience – Indonesia (July 26)

The U.S. Agency for International Development, Mission in Indonesia, requests proposals for Climate Adaptation and Disaster Resilience (CADRE). Indonesia is particularly vulnerable to climate change and disasters. CADRE supports projects that address climate change and disasters by efficiently, effectively and sustainably addressing the needs for disaster risk reduction and climate change adaptation together, among vulnerable populations in Indonesia. Multiple awards ranging from \$500K to \$1.5 million anticipated. Concept Papers are due 1/25/10 and 7/26/10. For more info, contact Johanna Gardjito at aps10-005@usaid.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&opId=50515>. Refer to Sol# APS10-005. (Grants.gov 12/7/09)

Climate Showcase Communities, EPA (July 26)

The U.S. Environmental Protection Agency requests proposals for the Climate Showcase Communities. This program assists local and tribal governments in developing plans, conducting demonstrations, and implementing projects that reduce greenhouse gas emissions while achieving additional environmental, economic, public health, and/or community benefits. \$10 million expected to be available, up to 30 awards anticipated. Responses due 7/26/10. For more info, contact Jeanette Shepherd at shepherd.jeanette@epa.gov or go to: http://www.epa.gov/air/grants_funding.html. Refer to Sol# EPA-OAR-CPPD-10-09. (Grants.gov 7/8/10)

Added This Week

Power Forecast, Haiti, TDA

The U.S. Trade and Development Agency announces its intent to request proposals to provide technical assistance to forecast future power demand in Haiti and assist governmental and private sector entities in Haiti in developing a strategy to generate, transmit and distribute power to both urban and rural areas, to encourage Haiti's recovery from the disastrous earthquake and to fuel economic growth. The assistance will include the identification, assessment and quantification of renewable energy options such as wind, solar and biomass. \$800K expected to be available. For more info, contact Jason Bell at jbell@ustda.gov or go to: https://www.fbo.gov/?s=opportunity&mode=form&id=381bf13f574e4baee474468a6f994556&tab=core&_cview=0. Refer to Sol# CO2010510006. (FBO 6/5/10)

Renewables, Arizona (July 29)

The Salt River Project Agricultural and Improvement District seeks to add up to a total of 50 megawatts of ground mounted PV capacity in the third quarter of 2012 and up to an additional 50 MW in the third quarter of 2013. Individual projects that have a capacity of between 5 and 20 MW are preferred. Responses due 7/29/10. For more info, contact pvrp@srpnet.com or go to: <http://www.srpnet.com/environment/solar/solarpvrp.aspx>. (Green Power Network 6/10/10)

Tribal Climate Change Planning, EPA (July 30)

The U.S. Environmental Protection Agency requests proposals for Facilitating Tribal Climate Change Adaptation Planning and Communicating Climate Change Impacts. Projects must address environmental justice issues and concerns. \$550K expected to be available, up to 3 awards anticipated. Responses due 7/30/10. For more info, contact Kevin Rosseel at (202) 343-9731 or go to: http://www.epa.gov/air/grants_funding.html. Refer to Sol# EPA-OAR-CCD-10-09. (Grants.gov 6/18/10)

Climate Change TA, Washington and Oregon BLM (July 30)

The U.S. Department of the Interior, Oregon/Washington Bureau of Land Management, request proposals for work to synthesize existing models and climate predictions for the Pacific Northwest, synthesize and summarize global model outputs for temperature and precipitation in WA and OR, and to support to ongoing dynamical downscaling climate prediction efforts. \$150K expected to be available, 1 award anticipated. Responses due

7/30/10. For more info, contact Teresa Spickerman at teresa_e_spickerman@blm.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=55563>. Refer to Sol# L10AS00156. (Grants.gov 6/30/10)

Greenhouse Gas Reporting Systems, EPA (August 9)

The U.S. Environmental Protection Agency requests proposals for the Greenhouse Gas (GHG) Reporting Systems: Outreach to Reporting Facilities and Analysis of Greenhouse Gas Mitigation Opportunities. This RFP will support work to communicate to affected facilities the requirements of state GHG reporting systems as compared to those of U.S. EPA's Final Mandatory Reporting of Greenhouse Gases Rule, and to identify options for how the data collected through state reporting requirements and the MRR may be used to facilitate state- and facility-based GHG programs. \$2 million expected to be available, up to 20 awards anticipated. A Notice of Intent to apply is requested, but not required, and is due 7/19/10. Final proposals due 8/9/10. For more info, contact Cate Hight at hight.cate@epa.gov or go to: http://www.epa.gov/air/grants_funding.html. Refer to Sol# EPA-OAR-CCD-10-05. (Grants.gov 6/29/10)

Rural Cooperative Development, DOA (August 9)

The U.S. Department of Agriculture requests proposals for the Rural Cooperative Development Grant Program. This program supports the establishment and operation of cooperative development centers for the primary purpose of improving the economic condition of rural areas. Areas of interest include but are not limited to: Renewable energy generation, energy conservation, and/or climate change adaptation or mitigation as strategies for quality job creation; Innovative utilization of natural resources as a strategy to expand business opportunities; and local and regional food systems as a strategy for encouraging production agriculture and related industries in new wealth creation. \$7.9 million expected to be available, up to 30 awards anticipated. Responses due 8/9/10. For more info, contact cprgrants@wdc.usda.gov or go to: <http://www.rurdev.usda.gov/rbs/coops/rcdg/rcdg.htm>. Please note that this RFP was posted under Sol# RDBCP-10-02-RCDG and Sol# RDBCP-10-03-RCDG; it is unclear which Sol# is correct. (Grants.gov 6/29/10)

Sustainable Communities, HUD (August 23)

The U.S. Department of Housing & Urban Development requests proposals for the Sustainable Communities Regional Planning Grant Program. This program will support metropolitan and multijurisdictional planning efforts that integrate housing, land use, economic and workforce development, transportation, and infrastructure investments in a manner that empowers jurisdictions to consider the interdependent challenges of: 1) Economic competitiveness and revitalization; 2) Social equity, inclusion, and access to opportunity; 3) Energy use and climate change; and 4) Public health and environmental impacts. \$98 million expected to be available, award range \$100K to \$5 million. Responses due 8/23/10. For more info, contact sustainablecommunities@hud.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=55456>. Refer to Sol# FR-5396-N-03. (Grants.gov 6/24/10)

Community Environmental Demonstration Projects – Alaska (September 9)

The Alaska Native Tribal Health Consortium and RurAL CAP request proposals for Community Environmental Demonstration Projects. This initiative will support innovative projects that address approaches for enhancing human health and the environment of Tribal communities in rural Alaska. Areas of interest for demonstration projects include, but are not limited to: Climate change, indoor air quality, solid waste management, recycling, outreach materials, energy use, and pollution. \$200K expected to be available, up to 12 awards anticipated. Responses due 9/9/10. For more info, contact Desirae Roehl at droehl@anthc.org or go to: <http://www.anthc.org/chs/ces/hve/fy11solicitation.cfm>.

Environmental Scientist Award, Health and Human Services (September 30)

The U.S. Department of Health & Human Services, National Institutes of Health, requests proposals for the Outstanding New Environmental Scientist Award. This RFP will support early stage investigators committed to research in problems related to environmental exposures. Examples of relevant toxicants include, but are not limited to: Industrial chemicals or manufacturing byproducts, pesticides, air pollutants and other inhaled particulates. \$3.6 million expected to be available, up to 6 awards anticipated. Letters of Intent are required and are due 9/30/10, final proposals due 10/29/10. For more info, contact Carol Shreffler at shreffl1@niehs.nih.gov or

go to: <http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-10-004.html>. Refer to Sol# RFA-ES-10-004. (Grants.gov 6/18/10)

RFP Announcements

State Energy Program, U.S. DOE (August 3)

The U.S. Department of Energy requests proposals for the State Energy Program (SEP). This formula grant program provides support to states and territories, for the design and implementation of energy efficiency and renewable energy priorities. Lead applicant must be the state or territorial energy office administering the annual SEP. \$25 million expected to be available, up to 56 awards anticipated. Due date range 5/18 – 8/3/10. For more info, contact Sheldon Funk at sheldon.funk@netl.doe.gov or go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000308&agency=DOE>. Refer to Sol# DE-FOA-0000308. (Grants.gov 3/26/10)

Greenhouse Gas Mitigation, Indonesia (September 15)

The U.S. Agency for International Development Mission in Indonesia requests applications for the Greenhouse Gas Mitigation Program. This RFP will support projects to reduce greenhouse gas emissions in both the land use/forestry sector and the energy sector. \$1.5 million expected to be available, up to 2 awards anticipated. Responses due 3/30/10 and 9/15/10. For more info, contact Dominic Soenarno at aps10-011@usaid.gov or go to: <http://www.grants.gov/search/search.do?mode=VIEW&oppld=51783>. Refer to Sol# APS-INDONESIA-10-011. (Grants.gov 2/12/10)

Black Carbon, Climate and Air Quality (September 22)

The U.S. Environmental Protection Agency requests proposals for Black Carbon's Role in Global to Local Scale Climate and Air Quality. This RFP will support areas including but not limited to: Emission source research, the global to local scale emissions inventory, and co-pollutants. This RFP will also support opportunities for early career projects. \$7 million expected to be available, up to 9 awards anticipated. Responses due 9/22/10. For more info, contact Bryan Bloomer at bloomer.bryan@epa.gov or go to: http://www.epa.gov/ncer/rfa/2010/2010_star_blackcarbon.html. Refer to Sol# EPA-G2010-STAR-L1 and EPA-G2010-STAR-L2. (Grants.gov 5/19/10)

U.S. DOE Office of Science (September 30)

The U.S. Department of Energy, Office of Science, announces its continuing interest in receiving grant proposals in areas including, but not limited to: Basic Energy Sciences, Biological and Environmental Research, and Advanced Scientific Computing. Proposals accepted through 9/30/10. For more info, including program-specific contacts, go to: <https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000179&agency=DOE>. Refer to Sol# DE-FOA-0000179. (Grants.gov 12/4/09)

Power, Controls and Adaptive Networks, NSF (October 7)

The National Science Foundation requests proposals for Power, Controls and Adaptive Networks. This program supports distributed control of multi-agent systems with embedded computation for sensor and adaptive networks. This program emphasizes electric power networks and grids, including generation, transmission and integration of renewable, sustainable and distributed energy systems, such as fuel cells and micro-turbines in large power networks; high power electronics and drives; and understanding of associated regulatory and economic structures. The program also emphasizes energy scavenging and alternative energy technologies, including solar cells, ocean waves, wind, geothermal, low-head hydro, and the hydrogen economy. In addition, the program supports generation and integration in the National Grid (InterGrid), and interdependencies of critical infrastructure in power and communications. Responses due 10/7/10. For more info, contact Radhakishan Baheti at rbaheti@nsf.gov or go to: http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13380. Refer to Sol# PD-10-1518. (Grants.gov 2/17/1)



Events

Happening This Week

GEA Geothermal Energy Workshop, Las Vegas, NV (July 22)

GEA will be holding a one-day “Geothermal Energy and Utilities Forum” in Las Vegas, NV on Thursday, July 22nd at Bally's. The program seeks to address issues related to geothermal examined from a utility perspective. Participants will hear the most recent updates available on the U.S. geothermal market, accompanied by expert presentations on approaches to utility scale projects in the U.S., federal and state support for utilities and renewables, reducing costs through time reduction, risk assessment, technology options, oil gas and co-production, small power, transmission issues, and more.

You'll find out information and perspectives on project development, technology, finance, community and environmental issues. Come join the collaboration between leading geothermal experts from around the nation to collectively increase geothermal energy's production output.

To register: <http://www.gifttool.com/registrar/ShowEventDetails?ID=1872&EID=7126>

To view the preliminary draft agenda: <http://www.geo-energy.org/workshops/UtilityWSPreliminaryAgenda5.13.2010.pdf>

If you are interested in sponsoring the Geothermal Energy and Utilities Forum: <http://www.geo-energy.org/workshops/LasVegas2010Sponsorships.pdf>

With any questions, please feel free to email Kathy Kent at kathy@geo-energy.org.

For media credentials, please contact Garret Drexler at 646-695-7042 or garret@rosengrouppr.com.

GEA Events

GEA Annual Members Meeting and Policy Workshop, Sacramento, CA (October 23)

On Saturday, October 23rd from noon to 5pm, GEA will hold its “Annual GEA Member's Meeting and Policy Workshop” at the Hyatt Regency in room C. As part of the Member's Meeting, GEA staff will present successes, activities, and direction for 2010 and beyond and open floor to member discussion. As part of the Policy Workshop, keynote speakers from federal and state government will provide expert presentations on the latest regulatory and legislative developments and discuss trends shaping politics in Washington, DC and state capitols. Pulling the two parts of the meeting together will be a discussion of what it will take to sustain long-term growth in the geothermal industry. There is no admission charge for GEA Members and 2010 Geothermal Energy Expo exhibitors. The meeting is also open to the GRC members and others on a space available basis. For more information contact Kathy Kent kathy@geo-energy.org or Karl Gawell karl@geo-energy.org.

GEA Geothermal Energy Expo and GRC Annual Meeting, Sacramento, CA (October 24-27)

Exhibitor Registration is open. Booth spaces are more than 75% sold out, please book soon!! Register at <http://www.geothermalenergy2010.com/>.

Every year, the Geothermal Energy Expo® hosts the world's largest gathering of vendors providing support for geothermal resource exploration, characterization, development, production and management. It provides a unique opportunity for exhibitors to showcase their projects, equipment, services and state of the art technology to the geothermal community. The Expo is held in conjunction with the GRC Annual Meeting, www.geothermal.org.

Last year's count was 2300 participants and planning shows this year's numbers will top it. This year the Expo will be held in Sacramento, CA at the Sacramento Convention Center Complex, a component of the City of Sacramento Convention, Culture and Leisure Department.

Exhibitor Benefits include:

- * 50-word company listing in the official event guide
- * Exhibit Booths are 10' x 10' and has an 8' high back drape and 3' high side drapes
- * A 7" x 4" identification sign with the Exhibitor's name and space number
- * Each booth will also include a table, two chairs and a wastebasket.
- * Enhanced Exhibitor Listing on event website, www.geothermalenergy2010.com
- * For every 100 sq ft exhibitors receive 3 booth staff passes
- * Complimentary Expo Hall passes to distribute to your clients and customers

To view the floor plan for the 2010 Expo, please go to: http://www.geothermalenergy2010.com/floor_plan.asp

To register as an Exhibitor, please go to: <http://www.geothermalenergy2010.com/registration.asp>

To view the Exhibitors contract for 2010, please go to: <http://www.geothermalenergy2010.com/contract.asp>

More information including sponsorship opportunities, room block, and special events coming soon. We are looking forward to another great Expo! Please do not hesitate to let us know if you have any questions.

Contact: Kathy@geo-energy.org

Geothermal Energy Expo Sponsorship Opportunities

Sponsorship Opportunities – contact Kathy Kent at kathy@geo-energy.org

Water Sponsor - \$3,500 (Exclusive)

SOLD: TNG Energy Services

Benefits:

- Sponsor logo placement on water station and Eco Sports Bottle to be given out to Expo attendees
- Recognition on GEA/GRC site
- Recognition on signage on Expo Hall

Exhibition Aisle Signs – 1/ Aisle Section - \$1,000 (Limit 8)

Benefits:

- Logo on aisle sign
- Proportional logo on event guides

Geo-Cyber Area Sponsorship - \$5,000 (Exclusive)

SOLD: Geothermal Resource Group

Benefits:

- 20 x 20 space with two desktop computers with internet connection and printer in 2010 Expo Hall
- Offers the opportunity for technical and management professionals from around the world to come together and networking/round tables and chairs
- Company logo on signage of the “Cyber Space”
- Company's website set to default for all computer screen savers
- Recognition on signage on Expo Hall

Expo Triangular Eco-Highlighters - \$2,500 (Exclusive)

Benefits:

- Company name and logo on Expo Hall pens given out with attendee bag
- Sponsor receives recognition on GEA website and on Expo Guide

Expo Eco-Pens - \$2,000 (Exclusive)

Benefits:

- Company name and logo on Expo Hall pens given out with attendee bag
- Sponsor receives recognition on GEA website and on Expo Guide

GRC Annual Meeting and GEA Geothermal Energy Expo® Mutual Sponsorships 2010

Sponsorship Opportunities – contact Kathy Kent at kathy@geo-energy.org

Platinum Level - \$30,000 (Limited to maximum of 5 sponsors)**SOLD: Halliburton**

Benefits:

- Sponsorship of Opening Reception, Sunday evening, October 24, 2010
- Formal acknowledgement at Opening Reception, Sunday evening, October 24, 2010
- (1) 10'x20' booth space within Expo
- (3) complimentary full conference passes
- Prominent display of name/logo on event guides
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A full page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Gold Level - \$15,000 (Limit 5)

Benefits:

- (1) 10'x10' booth space within Expo
- (2) complimentary full conference passes
- Prominent display of name/logo on event guides
- Formal acknowledgement at Opening Reception
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A half page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Silver Level - \$7,500 (Unlimited)**SOLD: City of Reno**

Benefits:

- Proportional logo on event guides
- Logo on entry welcome sign, GRC/GEA websites, slide show onsite
- A quarter page B/W Advertisement in 6 issues of the GRC Bulletin
- Literature of choice included in delegate bags

Breaks

Afternoon Coffee and Sweets, Monday - \$5,000 (Exclusive)

SOLD: The Shaw Group

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Morning Coffee, Tuesday - \$2,500 (Exclusive)

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Afternoon Coffee and Sweets, Tuesday - \$5,000

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Morning Coffee, Wednesday - \$2,500

Benefits:

- Signage on buffet tables
- Recognition on signage within Expo Hall
- Proportional logo on event guides
- Recognition on GEA website

Variety Items

Neck Wallets - \$10,000 (Exclusive)

SOLD: Calpine Corporation

Benefits:

- One color sponsor logo placement on 2010 neck wallets to be worn by all attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site
- Recognition on signage on Expo Hall

Annual Meeting and Expo Delegate Bags - \$15,000 (Exclusive)

Benefits:

- One color sponsor logo placement on bags to be given out to all of the 2010 attendees
- Proportional logo on event guides
- Recognition on GEA/GRC site
- Company literature inserted into attendee bags
- Recognition on signage in Expo Hall

Why Should You Attend GEA Events?

As the national trade association for the geothermal industry, the Geothermal Energy Association (GEA) strives to create and deliver educational events involving the full range of the geothermal industry, reflecting the dynamic growth of the geothermal market, and communicating the benefits of geothermal energy to all. GEA events offer important opportunities to learn and network within the geothermal community, and to inform and educate companies and organizations outside today's industry that are interested in learning more about geothermal energy. The revenue generated from GEA events is used to advance the goal of the GEA, "to expand the production and use of geothermal energy in the United States and around the world." The revenue supports GEA's workshops and events, communications activities, outreach efforts, policy related activities and analysis, internet publications, and other initiatives designed to help achieve this goal. ONLY GEA puts your dollars to work in all of these ways to advance the future of the geothermal energy industry. And, GEA does not sell your email or postal address to junk mailers or spammers.

To keep track of new events and changes to this calendar go to: www.geo-energy.org.

Other Events

CanGEA's Third Annual Conference & Trade Show, CanGEA, Vancouver, BC, (August 8–10)

Canadian Geothermal Energy Association

<http://www.cangea.ca/>

Fifth Renewable Energy Fair, Chena Hot Springs, Alaska (August 15)

www.chenahotsprings.com or www.chenapower.com

Geothermal in the Oil Field, RMOTC, Casper, WY (August 18-19)

To register for this symposium, go to <http://www.rmotc.doe.gov/registration.html>. Registration is due August 6, 2010. For more information, call (888) 599-2200 or e-mail talk@rmotc.doe.gov.

Geothermal Investment Forum and Networking Event, CanGEA, Toronto, ON, (September 14)

Canadian Geothermal Energy Association

<http://www.cangea.ca/>

XVII Congress of the Mexican Geothermal Association, Morelia, Mich., Mexico (October 8)

Mexican Geothermal Association (AGM: Asociación Geotérmica Mexicana)

<http://www.geotermia.org.mx>

Caribbean Renewable Energy Forum, the Bahamas (October 13–15)

To view the latest agenda please follow this link: www.caribbeanenergyforum.com/agenda.php. To qualify for a 15% early bird discount on the registration fee, please register by July 16th. To register please follow this link: www.caribbeanenergyforum.com/attend.php?sub=register.

Australian Geothermal Energy Conference, SA, Australia (November 16–19)

Australian Geothermal Energy Association

<http://www.ausgeothermal.com/>

POWER-Gen International, Orlando, FL (December 14–16)

<http://www.power-gen.com/index.html>

Renewable Energy World North America 2011, Tampa, FL (March 8–10, 2011)

<http://www.renewableenergyworld-events.com/index.html>

Geothermal Energy Utilization Associated with Oil and Gas Development, SMU Geothermal Laboratory, Dallas, TX (June 13–15, 2011)

<http://smu.edu/geothermal/>

GEOHERMAL ENERGY WEEKLY

A newsletter for the geothermal industry written by Leslie Blodgett and Karl Gawell

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