

Geothermal Energy Weekly

A publication of the
Geothermal Energy Association

~formerly the GEA Weekly Update~



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November 6, 2009

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National News

EPW Committee Democrats Approve Global Warming Bill, Draw Criticism

On November 5, Senate Environment and Public Works Committee Democrats signed off on the climate bill in a vote that forewent discussion of amendments.

Chairwoman Barbara Boxer (D-Calif.) told press, “A Majority of the EPW Committee voted to send the Clean Energy Jobs and American Power Act – S. 1733 -- to the floor of the Senate today in full accordance with longstanding Committee and Senate Rules. We did it for three reasons.

“S. 1733 addresses a crucial issue of our time and advancing the bill is a necessary step on the road to garnering the 60 votes we need for a comprehensive bill that will be melded together from various Committees and Senators from different regions of the country. This bill is already being worked on by Senators Kerry, Lieberman, Graham and others.

“We found, after questioning the EPA extensively, that the Republicans’ demand for another EPA analysis now would be duplicative and a waste of taxpayer dollars. The absence of the Republicans during the EPA’s presentation was a clear message that their criticism of the EPA analysis was not a substantive one. Indeed, the EPA said their economic analysis was “unprecedented” in scope and was never done for any other energy or climate bill at this stage of the process.

“The Committee and Senate rules that have been in place during Republican and Democratic majorities are there to be used when the Majority feels it is in the best interest of their states and of the nation to act. A majority of the Committee believes that S. 1733, and the efforts that will be built upon it, will move us away from foreign oil imports that cost Americans one billion dollars a day, it will protect our children from pollution, create millions of clean energy jobs, and stimulate billions of dollars of private investment.

“We are pleased that despite the Republican boycott, we have been able to move the bill,” Boxer concluded.

Sen. James M. Inhofe (R-Okla.), Ranking Member of the Senate Committee on Environment and Public Works, issued a counter view of the bill signing.

"I am deeply disappointed by Chairman Boxer's decision to violate the rules and longstanding precedent of the committee. The Republicans offered a clear path forward to a bipartisan markup, but it was summarily rejected by Chairman Boxer. Instead, she decided to ignore the entreaties of all 6 ranking members from Senate committees with some share of jurisdiction over climate change legislation, as well as leading moderates in the Senate. Her action signals the death knell for the Kerry Boxer bill.

"As was written recently, the Kerry-Boxer bill is 'bad policy' that 'resembles the failed climate proposals of the past.' It is time for a different approach, one that grows, rather than shrinks our economy, creates, rather than destroys jobs, and strengthens, rather than weakens our energy security. We can do this by encouraging development of all of America's vast energy resources," Inhofe said.

National Geothermal Data System Kick-off Meeting in Boise, Idaho

Members of the work-group formed to construct a National Geothermal Data System (NGDS) met in Boise, Idaho on November 2-3 for the project's initial kick-off meeting. As part of the American Recovery and Reinvestment Act of 2009 (ARRA) DOE provided close to \$25M in federal funding to construct and populate a National Geothermal Data System (NGDS). The meeting in Boise established an outline and milestones for the development of the NGDS.

Representatives from Boise State University, Energy and Geosciences Institute (University of Utah), Great Basin Center for Geothermal Energy (University of Nevada, Reno), Geo-Heat Center (Oregon Institute of Technology), Stanford Geothermal Program (Stanford University), U.S. Geoscience Information Network (Arizona Geological Survey, U.S. Geological Survey, Association Of American State Geologists), Bureau of Land Management, and the Geothermal Energy Association were all present for the meeting.

The underlying goal of the NGDS is to organize past and future geothermal related data in a manner that will encourage the increased development of geothermal resources by industry. The NGDS will provide data on various inputs of geothermal development via a "Geothermal Desktop." Information will include data from DOE funded projects, various regional and industry data centers already in existence, legacy data, and additional data provided by the industry.

According to DOE, within the first year of NGDS development the work-group will begin testing desktop software used to access the NGDS after which the large scale implementation and organization of information on domestic geothermal resources will commence. During the course of this development the NGDS work-group will hold a number of work shops with stakeholder groups to both inform and gather feedback from the industry and the public affected by the development of the NGDS.

For more information regarding the NGDS go to (www.geothermaldata.org) or contact Dan Jennejohn at danj@geo-energy.org.

Geothermal County Share Endangered by Fast Action on Interior Appropriations

The Conference Report on the Interior Appropriations Bill became the vehicle for a stop-gap provision allowing the government to keep operating after October 31, and as a result quick action was taken on October 29 in the House and Senate to pass the bill. But, in doing so, Congress also adopted a measure that had been included first in the House-passed bill that overturns provisions of the 2005 Energy Bill granting counties 25% of the revenues from geothermal leasing and royalties. Almost immediately, Senators Harry Reid (D-NV) and Dianne Feinstein (D-CA) introduced legislation to repeal the provision, and both expressed their intent to reverse the decision.

The Conference Report was "must pass" legislation. Congress had not passed all of the necessary annual appropriations bills and it included the stop-gap spending provision allowing the government to keep its doors

open. Reportedly, the provision was included at the request of the Administration, presumably the Office of Management and Budget, which has historically opposed the change in federal revenue sharing. To make matters even more complicated, the final text of the Conference Report was made available only briefly before votes in the House and Senate. Surprisingly, the Conference Report was signed by several members of the House and Senate whose local counties will be adversely impacted by this decision, including: Rep. Michael Simpson and Sen. Robert Bennett.

S.2607 would reverse this decision and restore the county geothermal revenues. Senators Feinstein (D-CA) and Reid (D-NV) are seeking additional House and Senate Members to cosponsors and support for quick action on this legislation.

In addition, the provision would cut short by one year the 2005 laws provision that created a special fund to support the BLM geothermal program. For five years the federal share of geothermal leasing and royalty revenues were to be set-aside to fund leasing, permitting and other activities needed to implement the new law.

Senators Ensign and Reid had already introduced legislation, S.995 – the Renewable Energy Permitting Act of 2009, which includes a provision that would make this special fund permanent and ensure adequate resources for geothermal leasing and permitting into the future. Representatives Heller, Berkley and Titus have introduced companion legislation, HR2362.

GEA published a report in January of 2009 which examines the changes in how geothermal revenues are used under the 2005 energy bill, and discusses how counties have been using the revenues received. That report, Geothermal Revenue Under the Energy Policy Act of 2005, is available at: <http://www.geo-energy.org/publications/reports.asp>.



Company News

Companies Receive DOE Funding

The DOE stimulus funding announcement included for private companies, academic institutions, tribes and local governments, national laboratories.

Additional information is available from the following institutions. *If more information is available on your project and you do not see it listed here, email research@geo-energy.org to get it listed in a subsequent newsletter issue.*

- AltaRock

AltaRock received notification for \$24,999,530 is to demonstrate an Engineered Geothermal System (EGS) at the Newberry Geothermal Resource Area in Oregon. See <http://www.altarockenergy.com/media.html>.

- Davenport Power

The Newberry Geothermal project received two grants, one for \$5 million, “Validation of Innovative Exploration Technologies” and another for \$25 million, “Enhanced Geothermal System Demonstration” at Newberry.

- **Magma Energy**

\$10 million will go to two geothermal exploration properties in Nevada: Soda Lake and McCoy. See <http://www.magmaenergycorp.com/s/NewsReleases.asp?ReportID=369713& Type=News-Releases& Title=Magma-Awarded-10-Million-In-Department-Of-Energy-Grants-For-Its-Soda-Lake-A...>

- **Nevada Geothermal Power**

Nevada Geothermal Power was awarded two cost share grants for \$3.4 million for the Crump Geyser and Black Warrior geothermal projects. See <http://www.nevadageothermal.com/s/News.asp>.

- **US Geothermal**

\$3.77 million was awarded for the exploration and development of its San Emidio geothermal power project in Nevada. See <http://www.usgeothermal.com/index.aspx>.

Terra-Gen Power: Global Infrastructure Partners Announces Strategic Investment

Press Release, New York — Global Infrastructure Partners (GIP), an independent \$5.64 billion infrastructure investment fund, announced today that it has reached agreement to acquire up to a 40% convertible preferred interest in Terra-Gen Power Holdings, LLC (Terra-Gen) from ArcLight Capital Partners, LLC (ArcLight). Financial details of the investment were not disclosed.

Terra-Gen is a leading US renewable power generation company that owns or operates over 800 megawatts (MW) of renewable power facilities, including geothermal, wind and solar projects across a broad area of the United States. Terra-Gen also has over 5,000 MW of renewable energy projects under development. Following completion of this transaction, which is expected by year-end, ArcLight and GIP will be partners in driving the continuing growth of Terra-Gen.

Adebayo Ogunlesi, Chairman and Managing Partner of GIP, commented: “We are very pleased to be working with ArcLight and the outstanding Terra-Gen management team to help meet the growing demand for clean, renewable energy in the United States. Their capabilities are an ideal complement to GIP’s operational strengths and our expertise in the power sector.”

Jonathan Bram, the GIP Partner leading the transaction, added: “This investment represents an excellent opportunity for GIP. In Terra-Gen, we have a solid portfolio of operating renewable projects combined with a unique growth platform that includes each of the three most attractive clean energy technologies.” Credit Suisse acted as financial advisor to GIP.

See <http://www.terra-genpower.com/News.aspx>.



Renewable Energy and Climate Change

Federal Agencies Move to Coordinate on Electric Transmission Infrastructure

On October 28, nine federal agencies established a Memorandum of Understanding (MOU) for coordinating electricity transmission projects. This is meant to improve and facilitate authorization on transmission projects in areas such as siting, application process, permit decisions, and environmental reviews.

The MOU designates DOE as the lead agency for coordinating the review process. It also defines what projects qualify for expedited coordination measures.

The Department of Agriculture, Department of Commerce, Department of Defense, Department of Energy, Environmental Protection Agency, Council on Environmental Quality, Advisory Council on Historic Preservation, Department of the Interior, and the Federal Energy Regulatory Commission are all included in the MOU.

See <http://www.vnf.com/news-alerts-409.html>.



State News

States Receive DOE Funding

The DOE stimulus funding announcement included for 39 states.

Additional information is available on the following projects. *If more information is available on your project and you do not see it listed here, email research@geo-energy.org to get it listed in a subsequent newsletter issue.*

- California

Berkeley Lab received \$7 Million for Enhanced Geothermal Energy technologies for four projects: Fluid Imaging, Estimating Fracture Surface Area, THMC Modeling, and CO₂ as Fluid. See <http://newscenter.lbl.gov/press-releases/2009/10/29/berkeley-lab-receives-7-million-for-enhanced-geothermal-energy-technologies/>.

- Colorado

Companies, agencies and institutions in Colorado will receive up to \$18 million in grants. See <http://denver.bizjournals.com/denver/stories/2009/10/26/daily53.html>.

- Hawaii

One grant will go toward a project on Maui. See http://www.mauinews.com/page/content_detail/id/525280.html?nav=10.

- Idaho

Blaine County School District received a \$4 million grant for heating school buildings. See <http://www.mtexpress.com/index2.php?ID=2005128644>.

- Nevada

Nevada energy companies will receive nearly \$93 million. See <http://www.rgj.com/article/20091029/NEWS/91029034/Nevada-energy-companies-get--93-million-to-develop-geothermal-energy>.

- New Mexico

More than \$10 million will go to geothermal energy projects in New Mexico. See <http://www.kvia.com/Global/story.asp?S=11419089>.

- Oregon

Nearly \$40 million was announced for the exploration and development of geothermal energy technologies in Oregon. See <http://www.ktvz.com/global/story.asp?s=11410230>.

A \$2 million grant was awarded for a commercial power plant to a Lake County resource. See <http://djcoregon.com/news/2009/11/04/tiny-town-takes-geothermal-lead/>.

- Tennessee

Oak Ridge City Center in Oak Ridge, Tennessee, awarded up to \$5 million for large-scale heating and cooling project. See <http://www.oakridger.com/news/x1312012062/Mall-wins-5M-DOE-grant-for-greening>.

California: CARB Outlines Development of New 33% RES; GEA Notes Areas for Improvement

On October 30, 2009 the California Air Resources Board (CARB) held a public workshop and released a "Concept Outline" for the development of a California Renewable Electricity Standard (RES). The regulation, to be adopted by July 31, 2010, is consistent with a 33% renewable target established in Governor Schwarzenegger's EO S-14-08 and builds on the existing 20% Renewable Portfolio Standard. Comments on the Concept Outline are due to CARB by November 20.

GEA Executive Director Karl Gawell and Western States Representative John McCaull attended the workshop, which included a formal presentation and a concept outline paper, both of which are available at <http://www.arb.ca.gov/energy/res/meetings/meetings.htm>. During the question and answer session, Gawell made brief remarks about the need to act quickly, not add more uncertainty, and not impose additional costs on projects. His comments were echoed by CalWEA and the Large Solar Association reps at the workshop.

The presentation addressed some issues that need to be worked out, as well as issues that are already being handled quite well. Some of the major topics were RES/RPS coordination, collaboration between agencies handling the regulations, and defining qualifying technologies. CARB staff was very interested in comments from participants.

Items worth GEA discussion:

1. Several comments were made during the meeting that energy efficiency measures should be counted toward RES compliance. References were made to the federal RES legislative efforts and the inclusion of energy efficiency measures in the definition of renewable resources. It is not clear how CARB will respond to this issue. The

inclusion of efficiency measures could lead to a significant watering down of the renewable obligations.

2. CARB floated the concept of defining the annual RES obligations in terms of GHGs displaced (metric tons of CO₂e/GWhr) rather than just MWhr of renewable generation. Thus, a renewable project with GHG emissions that are half those of a marginal unit (gas fired combined cycle, for example) would result in a RES credit half as large as a project with no GHG emissions. CARB clearly wants to develop a way of determining the actual GHG reductions from a 33% RES. As noted earlier, this approach appears fraught with problems, but it appeared CARB had an inclination to move in this direction, particularly given what it perceives its mandate to be.

3. One of the clear differences between existing law (i.e. the 20% RPS) and the RES proposal is the emphasis on accessing cost-competitive out of state resources, and opening up the market for REC-only purchases. Current law does not allow the purchase of "unbundled" REC's to satisfy RPS requirements. CARB's comments made it clear that this issue is an open item before its RES deliberations.

Comments on the Concept Outline can be emailed to gcollord@arb.ca.gov.



International News

Hungary: First Well Completed, "Milestone" for Pannergy

Drilling has been completed on the first well for a project led by Pannergy in Szentlőrinc that will provide hot water and heating in the area, according to renewableenergyworld.com. Initial testing has shown the well to be suitable for production.

Sigurður Lárus Hólm, project manager at Mannvit kft., told press: "This is the first time in Hungary that a well has been drilled through a sedimentary layer to a reservoir in a fault zone at a depth of almost 2 km, where the purpose is to get hot water for space heating." Mannvit Engineering of Iceland is working as the engineering consultation on the project.

See <http://www.renewableenergyworld.com/rea/partner/mannvit-engineering/news/article/2009/10/hungarian-geothermal-development-reaches-key-milestone-first-well-completed?cmpid=rss>.

Indonesia: GE Invests \$50m in Expansion of Indonesian Plant

On November 4, GE Energy Financial Services announced it has loaned US \$50 million to a 220-MW Wayang Windu plant near the town of Pangalengan, according to its press release. The project is being expanded to meet the power needs of Java, Madura and Bali.

"The Wayang Windu project is ideal as GE Energy Financial Services' first investment in the Indonesian energy sector in a decade," James Berner, the Singapore-based head of Asia at GE Energy Financial Services told press. "It illustrates two strategic themes for GE: the rise of Indonesia and the growth of renewable energy in our ecomagination program."

See

http://www.businesswire.com/portal/site/home/permalink/?ndmViewId=news_view&newsId=20091104005347&newsLang=en.

Kenya. Satellite Imagery Identifies Active Magma Systems in New Study

A study done on volcano systems in East Africa's Rift Valley brings insight into geothermal potential in the region, according to eurekaalert.org.

The study was conducted by team members from from the University of Miami, University of El Paso and University of Rochester using Interferometric Synthetic Aperture Radar (InSAR) images compiled over a decade. It shows surface displacements not visible to the unaided eye.

"The Kenyan Rift volcanoes are part of a larger Great Rift Valley complex that extends all the way from Mozambique to Djibouti; their presence in East Africa attests to the presence of magma reservoirs within the Earth's crust," Lead Author Dr. Juliet Biggs, Rosenstiel Postdoctoral Fellow at the University of Miami told press. "Our study detected signs of activity in only four of the 11 volcanoes in the area -- Suswa, Menengai, Longonot and Paka -- all within the borders of Kenya."

"This study demonstrates the potential for using InSAR to measure active magmatic and tectonic phenomena in Africa, allowing us to watch the processes by which continents break apart" added Biggs.

See http://www.eurekaalert.org/pub_releases/2009-11/uomr-sus110409.php.

Philippines. Government Aims for \$2.5 b in Private Investment with New Geothermal Deals

The Philippines plans to approve 19 deals in the next 5 months for foreign and domestic companies seeking access to geothermal projects, according to abs-cbnnews.com. The division chief for geothermal energy at the Philippine Energy Department, Alejandro Oanes told press this could attract over \$2.5 billion in private investment.

See <http://www.abs-cbnnews.com/business/11/05/09/rp-aims-approve-25-b-geothermal-contracts>.



www.geo-energy.org/publications/updates



Notices

Notices Available on GEA Web Site

Online Geothermal Discovery Guide

Distributed Temperature Sensing in Geothermal Energy Applications

9 Billion Dollar Energy Investment Fund

For details, see <http://geo-energy.org/publications/updates.asp#Notices>.



Employment

Employment Opportunities Available on GEA Web Site

Exploration Geologist, Western U.S.

Senior Director, Business Development, Major Geothermal Company

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

For details, see <http://geo-energy.org/publications/updates.asp#Employment>.



Requests for Proposals

Closing This Week

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 RFP 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)

Renewables and RECs – Texas (November 13)

El Paso Electric Co. seeks approximately 473 million kWh of eligible renewable energy resources and/or renewable energy certificates to meet New Mexico RPS requirements. Notice of Intent to Bid due 10/16/09, final proposals due 11/13/09.

For more info, contact Paul Garcia at pgarci1@epelectric.com or go to: <http://www.epelectric.com/site/about.nsf/by+subject/El+Paso+Electric+Issues+Request+for+Proposals+for+Renewable+Energy+Supply+2009?OpenDocument>. (Green Power Network 10/2/09)

Added This Week

Environmental Education, EPA (December 15)

The U.S. Environmental Protection Agency requests proposals for Environmental Education Grants. This program supports environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. \$3 million expected to be available, up to 95 awards anticipated. Responses due 12/15/09. For more info, including Regional contacts, go to: <http://www.epa.gov/enviroed/grants.html>. Refer to Sol# EPA-EE-10-02. (Grants.gov 10/29/09)

Environmental Justice Small Grants Program, EPA (January 8)

The U.S. Environmental Protection Agency requests proposals for the Environmental Justice Small Grants Program. This program supports projects that addresses a local environmental and public health issue within an affected community. There is a well-established scientific consensus that climate change will cause disproportionate impacts upon vulnerable populations. Therefore, this year the program will emphasize the disproportionate impacts of climate change in communities with environmental justice concerns. Areas of interest include, but are not limited to: Energy efficiency, renewables, water efficiency, Green jobs and green economy capacity building, and smart growth. \$1 million expected to be available, up to 40 awards anticipated. Responses due 1/8/10. For more info, including Regional contacts, go to: <http://www.epa.gov/compliance/environmentaljustice/grants/ej-smgrants.html>. Refer to Sol# EPA-OECA-OEJ-10-01. (Grants.gov 10/28/09)

Energy Efficiency Block Grants – Recovery Act, CEC (January 12)

The California Energy Commission requests proposals for Energy Efficiency Conservation Block Grants. This program will provide support for energy efficiency projects in small CA cities and counties. \$35.5 million expected to be available. Responses due 1/12/10. For more info, go to: <http://www.energy.ca.gov/contracts/recovery.html#eebfg>. Refer to PON# 09-001.

RFPs Available on GEA Web Site

Environmental Information Exchange Network (November 20)

DOE SBIR/STTR Phase I (November 20)

Electric Power Sector Workforce Training – Recovery Act , EPA (November 30)

Renewables and RECs – Arizona (November 30)

People, Prosperity and the Planet, EPA (January 5, 2010)

Clean Energy Deployment, Recovery Act, New York (February 16, 2010)

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

Emerging Frontiers in Research and Innovation (March 31, 2010)

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

For details, see <http://geo-energy.org/publications/updates.asp#RFPs>.



Events

Happening This Week

2nd Annual Australian Geothermal Energy Conference, November 10–13 (Brisbane, QLD)

The 2nd Annual Australian Geothermal Energy Conference will be held at the Hilton Hotel in Brisbane, QLD, on 10-13 November 2009

This conference will bring together representatives of Australia's entire multidisciplinary geothermal community to address key science, technology, policy and commercial issues facing the commercial development of the industry. This is the official conference of the Australian geothermal industry, and the only one supported by the Australian Geothermal Energy Association, the Australian Geothermal Energy Group and the majority of Australian geothermal energy companies.

Features of the conference:

- Three full days of conference sessions with over 80 speakers!
- Comprehensive Trade Show of over 30 leading companies!
- Pre-conference Seminar: Joint geophysical methods for geothermal exploration
- Low-cost registration
- Great networking opportunities
- Convenient location and high-quality venue

Register Online at www.ausgeothermal.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.

Added This Week

East Africa Forum, Geothermal Congress of the GtV, November 18–19 (Bochum, Germany)

From 18.-19. November the GEOTHERM Programme of the BGR (Federal Institute for Geosciences and Natural Resources) together with the German Geothermal Association (GtV) are organising an East Africa Forum at the annual Geothermal Congress of the GtV. The geothermal congress is held from 17.-19. November in Bochum, Germany.

The objectives of the East Africa Forum are to provide opportunities for African representatives to introduce geothermal opportunities to the European geothermal community and meet potential investors.

The following presentations are held:

1. Geothermal energy situation in East Africa and how geothermal energy can help, Marietta Sander, Federal Institute for Geosciences and Resources (18.11 PM: 16.00-16.30)
2. Geothermal resources (used resources and estimated) in the East African Rift region, Berhanu Gizaw, Geological Survey of Ethiopia (19.11 PM: 13.40-14.00)
3. Conducive legal and administrative settings for geothermal energy development, Getahun Dimissie, GeoMET Plc. Ethiopia (19.11 PM: 14.00-14.20)
4. Success factors for project management of geothermal projects in the East African Rift Valley-the Kenya experience, Peter Omenda, Geothermal Development Company, Kenya (19.11 PM: 14.20-14.40)
5. The region East Africa as a target for German investors, Michael Kraml (Sterr-Kölln) and Asmau Nitardy (German-African Business Association) (19.11 PM: 14.40-15.00)
6. German experience and technology applicable in the East African Rift system (for exploration and exploitation of geothermal reservoirs in high enthalpy regions), Horst Kreuter (19.11 PM: 15.40-16.00)
7. Geothermal explorations and results in the Republic of Djibouti, Dr. Bouh Houssein, Centre d'Etude et de Recherche de Djibouti (19.11 PM: 16.00-16.20)
8. Regulations and modalities for the feed-in of geothermal power in Ethiopia, Getahun Moges Kifle, Ethiopian Electricity Agency (19.11 PM: 16.20-16.40)
9. Regulations and modalities for the feed-in of geothermal power in Tanzania, Mr. Kato Kabaka, Tanzania Electric Supply Company Limited (19.11 PM: 16.40-17.00)

This year the geothermal congress is held in Bochum, in the north-west of Germany, in the so called "Ruhrgebiet", a region which is characterised by industries and was formerly a coal mining area. The congress is held from 17.-19. November and encompasses a number of technical fora and workshops on the following topics: Running of geothermal plants, reservoir modelling, hybrid use, financing and risk mitigation, geothermal use near the surface, use concepts, quality insurance, exploration, legal issues, drilling techniques, economic models, power plant technology. Unfortunately the technical fora are held in German, except for the East Africa Forum.

More information on the congress is provided at <http://www.geothermie.de/>. The website is mostly in German, thus, please don't hesitate to ask if you need further information.

GEA Events

Calendar of Upcoming GEA Events 2010

At GEA we realize that one can be bombarded by all of the renewable energy conferences and workshops that you receive invites to. More and more we are seeing renewable energy events as well as other emerging events specific to the geothermal energy industry.

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.

GEA's events are educational in nature, with the top experts in the industry, while also maintaining a business networking environment that we find key in a successful event. In 2009, GEA held several successful events in the U.S. including Geothermal Energy Project Showcase in Washington, DC, Technology, Finance and Development Workshop in Seattle, WA, a Direct Use and Small Power Workshop in Klamath Falls, OR and our record breaking Geothermal Energy Expo 2009 in Reno, NV. GEA also participated in a number of other events nationwide, spreading the word for geothermal.

Below is a list of upcoming GEA events for 2010 for your planning purposes. Also attached is a listing of 2010 GEA sponsorships opportunities in order to make budgeting easier for companies who are interested in supporting our workshops. If you are interesting in planning for, participating in, or sponsoring any of these events, please contact Kathy Kent, Marketing and Events Manager for GEA at 202.454.5263, kathy@geo-energy.org. For more information on GEA, please visit our website at www.geo-energy.org.

December 8-10, PowerGen International 2009, Las Vegas Convention Center, Las Vegas, NV

****NEW DATE:**

January 14, 2010, GEA Geothermal Energy Finance Forum, The Ritz Carlton, Battery Park, New York, NY

February 23-25, 2010 Renewable Energy World North America 2010, Austin, TX

April/May 2010 Date TBD, GEA Geothermal Symposium, Washington, DC

July 22, 2010, GEA Geothermal Energy Workshop, Las Vegas, NV

TBA 2010, GEA Geothermal Expo and Conference, GEA's annual Geothermal Energy Expo
(date and location to be announced)

Please mark your calendar! Registration available soon. We look forward to seeing you there.

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

Events Available on GEA Web Site

31st New Zealand Geothermal Workshop 2009, November 16–18 (Rotorua, New Zealand)

GeoPower Europe 2009, December 3–4 (Munich, Germany)

For details, see <http://geo-energy.org/publications/updates.asp#Events>.

Geothermal Energy Weekly

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

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