

Geothermal Energy Weekly

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October 30, 2009

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National News

Department of Energy Awards \$338 Million to Accelerate Domestic Geothermal Energy

On October 29, DOE Secretary Steven Chu announced awards of up to \$338 million toward geothermal energy, going to 123 projects in 39 states. The categories chosen were Innovative Exploration and Drilling Projects, Coproduced, Geopressured, and Low Temperature Projects, Enhanced Geothermal Systems Demonstrations, Enhanced Geothermal Systems Components Research and Development / Analysis, Geothermal Data Development, Collection and Maintenance, and Ground Source Heat Pump Demonstrations. A list of awardees is available at http://www.energy.gov/news2009/documents2009/338M_Geothermal_Project_Descriptions.pdf. The DOE release is given below.

Also last week, the US DOE awarded \$151 million in grants for technological breakthroughs, with the biggest award, \$9.2 million, going to Foro Energy for their geothermal drilling technology project; see story under **Company News: Foro Energy**.

Press Release, October 29, Washington, DC – U.S. Department of Energy Secretary Steven Chu today announced up to \$338 million in Recovery Act funding for the exploration and development of new geothermal fields and research into advanced geothermal technologies. These grants will support 123 projects in 39 states, with recipients including private industry, academic institutions, tribal entities, local governments, and DOE’s National Laboratories. The grants will be matched more than one-for-one with an additional \$353 million in private and non-Federal cost-share funds.

“The United States is blessed with vast geothermal energy resources, which hold enormous potential to heat our homes and power our economy,” said Secretary Chu. “These investments in America’s technological innovation will allow us to capture more of this clean, carbon free energy at a lower cost than ever before. We will create thousands of jobs, boost our economy and help to jumpstart the geothermal industry across the United States.”

These grants are directed towards identifying and developing new geothermal fields and reducing the upfront risk associated with geothermal development through innovative exploration and drilling projects and data

development and collection. In addition, the grants will support the deployment and creative financing approaches for ground source heat pump demonstration projects across the country.

Collectively, these projects will represent a dramatic expansion of the U.S. geothermal industry and will create or save thousands of jobs in drilling, exploration, construction, and operation of geothermal power facilities and manufacturing of ground source heat pump equipment.

The projects selected for negotiation of awards fall in six categories:

- **Innovative Exploration and Drilling Projects (up to \$98.1 million):** Twenty-four projects have been selected focusing on the development of new geothermal fields using innovative sensing, exploration, and well-drilling technologies.
- **Coproduced, Geopressured, and Low Temperature Projects (up to \$20.7 million):** Eleven projects have been selected for the development of new low-temperature geothermal fields, a vast but currently untapped set of geothermal resources. This includes geothermal heat found in the hundreds of thousands of oil and gas wells around the U.S., where up to ten barrels of hot water are produced for every barrel of oil.
- **Enhanced Geothermal Systems Demonstrations (up to \$51.4 million):** Three projects have been selected for the exploration, drilling and development of enhanced geothermal systems (EGS) to validate power production from deep hot rock resources using innovative technologies and approaches.
- **Enhanced Geothermal Systems Components Research and Development / Analysis (up to \$81.5 million):** Forty-five projects have been selected to focus on research and development of new technologies to find and drill into deep hot rock formations, stimulate enhanced geothermal reservoirs, and convert the heat to power.
- **Geothermal Data Development, Collection and Maintenance (up to \$24.6 million):** Three projects have been selected for the population of a comprehensive nationwide geothermal resource database to help identify and assess new fields.
- **Ground Source Heat Pump Demonstrations (up to \$61.9 million):** Thirty-seven projects have been selected to demonstrate the deployment of ground source heat pumps for heating and cooling of a variety of buildings for a variety of customer types, including academic institutions, local governments and commercial buildings.

DOE's Geothermal Technologies Program works in partnership with U.S. industry to establish geothermal energy as an economically competitive contributor to the U.S. energy supply. Learn more information about these awards on the Geothermal Technologies Program website at <http://geothermal.energy.gov>. This announcement covers projects selected for financial award. The final details and funding level of each project are subject to modification based on contract negotiations between the selected entity and the Department of Energy.

See http://apps1.eere.energy.gov/news/progress_alerts.cfm/pa_id=259.

Obama Touts Energy Initiatives at MIT Speech

In President Obama's visit to the Massachusetts Institute of Technology last week, he spoke of the administration's green energy initiatives; according to [wsj.com](http://www.wsj.com), early next year is the soonest final legislation will be expected to reach the Senate floor.

"We face threats to our security that seek to exploit the very interconnectedness and openness so essential to our prosperity," the President said. "And the system of energy that powers our economy also undermines our security and endangers our planet," he said, speaking before 750 MIT faculty, and local business leaders and politicians. "There are those who will suggest that moving toward clean energy will destroy our economy when it's the system we currently have that endangers our prosperity and prevents us from creating millions of new jobs."

Regarding the \$80 billion in energy-related spending in the stimulus bill, he said it "makes the largest investment in clean energy in history, not only to help end this recession, but to lay a new foundation for lasting prosperity."

See http://online.wsj.com/article/SB125631767852504233.html?mod=WSJ_hpp_MIDDLETopStories.



Company News

Calpine Signs New Long-Term Power Contracts to Ensure California Continues to Receive Clean, Reliable Power

Press Release, October 30 — Calpine Corporation (NYSE:CPN) today announced it has entered into several new power supply contracts with Pacific Gas and Electric Company (PG&E). Calpine has executed new contracts to replace existing contracts it signed with the State of California during the energy crisis, as well as to increase the supply of renewable power delivered to PG&E from The Geysers.

In response to the State of California's program to manage the energy crisis of 2000-2001, Calpine was the first power company to enter into long-term contracts with the State and was the first company to voluntarily renegotiate more favorable terms for the State. Now, in furtherance of the California Public Utilities Commission's and the State's policy objectives of removing the California Department of Water Resources (DWR) from its energy crisis role as the power purchaser of last resort, Calpine and PG&E have finalized contracts to replace two of these DWR contracts to ensure ratepayers continue to enjoy the benefits of Calpine's clean, reliable, cost-effective and well-located power facilities. As part of this negotiation, Calpine and PG&E have agreed to upgrade the Los Esteros Critical Energy Facility, located in Silicon Valley, to operate in combined-cycle mode at an increased capacity and higher efficiency.

"Through these agreements Calpine is very pleased to assist PG&E in serving the changing generation needs in California," said Calpine President and Chief Executive Officer Jack A. Fusco. "We welcome the opportunity to work with PG&E to supply both incremental renewable power and flexible and reliable natural gas-fired generation necessary to integrate intermittent renewable energy supplies coming on-line in furtherance of the State of California's 33 percent renewable goal."

For more, see <http://phx.corporate-ir.net/phoenix.zhtml?c=103361&p=RssLanding&cat=news&id=1348870>.

Ram Power: 150 MW Sold to Edison Intl

Edison International will purchase up to 150 MW of power from Ram Power's Imperial County plant, according to wsj.com. The company will deliver at least 50 MW by July 2013. Thursday's DOE grantee list includes Ram Power, to receive a \$5 million federal grant for development of the plant.

See <http://online.wsj.com/article/BT-CO-20091029-723169.html>.

Foro Energy: Colorado Startup Wins Biggest ARPA-E Energy Grant

Foro Energy, based in Littleton, is developing a hybrid thermal/mechanical drilling technology that has won them \$9,151,300, the largest of DOE's ARPA-E grants. This is part of \$151 million in grants for high-risk projects that the DOE has chosen to support for technological breakthroughs and was the only geothermal project awarded. Foro Energy's technology uses thermal energy to soften crystalline rock so that drill bits can penetrate with less wear, according to xconomy.com.

See <http://www.xconomy.com/boston/2009/10/26/boston-bred-geothermal-innovator-foro-energy-wins-biggest-arpa-e-energy-grant/>.

Íslandsbanki: Iceland Bank Focusing On U.S. Geothermal Growth

An article on [greenandsave.com](http://www.greenandsave.com) highlights the support of Íslandsbanki, the Icelandic bank, in the U.S. geothermal sector. "Íslandsbanki's 'Sustainable Energy' team provides development support by connecting industry and investors with the different divisions and product groups within the Bank," reads the article. The bank's activities as well as Iceland's geothermal prowess are noted, as well as a new report from Íslandsbanki, their third annual U.S. Geothermal Energy Market Report (<http://www.islandsbanki.is/english/industry-focus/sustainable-energy/research-and-publications/usgeothermal/>).

See http://www.greenandsave.com/green_news/green-science-technology/iceland-bank-focusing-us-geothermal-growth-5287.

Magma Energy: 3rd Annual Cleantech 10 Debuts Magma at Number Four

Press Release, Oct. 26, Vancouver, British Columbia — Magma Energy Corp. (TSX:MXV) Magma is pleased to announce that it has debuted in the number four position on the 3rd Annual Cleantech 10 list as compiled by Corporate Knights, an independent Canadian-based media company focused on prompting and reinforcing sustainable development. The Cleantech 10 represents Corporate Knights opinion of Canada's best publicly and privately held companies in the Cleantech industry, spanning a range of sectors in the emerging green economy.

Alison Thompson, Magma Energy's Vice President, Corporate Relations, speaking in Toronto at the awards ceremony commented, "On behalf of all my colleagues at Magma, we are pleased to receive this recognition. Magma's vision is to be the pre-eminent geothermal company in the world and this ranking will further our ability to meet that goal."

See <http://www.magmaenergycorp.com/s/NewsReleases.asp?ReportID=369038& Type=News-Releases& Title=Magma-Debuts-in-Fourth-Position-on-the-3rd-Annual-Corporate-Knights-Cleante...>

Magma Energy: Magma Wins Two Concessions in Nicaragua

Press Release, Oct. 27, Vancouver, British Columbia — Magma Energy Corp. (TSX:MXV) is pleased to announce that Magma Energy Corp. and Ram Power Corp.'s wholly owned subsidiary, Polaris Geothermal Inc. ("PGI"), have jointly won an international bid for two geothermal concessions known as "Volcán Mombacho" and "Caldera de Apoyo" in Nicaragua. Future exploration of the concessions will be made pursuant to a joint venture agreement, where PGI will be the operator, with each company contributing equally to project costs.

The Caldera de Apoyo concession is 10 km south of Masaya and 10 km west of the colonial town of Granada. The Volcán Mombacho concession is located 10 km south of Granada. The total area for these exploration concessions is 100 km² per concession. The requirements of the concession are approximately US \$50 million to be spent by the joint venture to define the potential of these resources. Exploration is programmed to start on both concessions during the first quarter of 2010 for completion within 27 months. Preliminary studies indicate reservoir temperatures reaching above 220°C.

See <http://www.magmaenergycorp.com/s/NewsReleases.asp?ReportID=369199& Type=News-Releases& Title=Magma-Wins-Two-Concessions-In-Nicaragua>.

Magma Energy: Development in Chile Meets Delays

Bnamericas.com interviewed Catherine Hickson of Magma Energy on plans for geothermal development in Chile. Magma is awaiting approval on an exploitation lease at Laguna del Maule, submitted July 24, Hickson told the press. Delays in the process are pushing back development, though Hickson said the plan is to have power in five years.

Three additional concessions, which had been lumped together and called Carran, are not being sought after geological surveys provided less than promising results. Magma has a number of bids on other areas as well. Geothermal potential in Chile is huge but there is not yet a geothermal plant online; Chile's current renewable energy goal is to have 10% renewable capacity by 2024.

See http://www.bnamericas.com/interviews/electricpower/Catherine_Hickson_Magma_Energy.

Nevada Geothermal Power: Company Holds Blue Mountain Project Dedication Ceremony; Video Tour of Facilities Available Online

The Blue Mountain geothermal project in Humboldt County, Nevada was completed last month. A video tour of the facility is available on the company's web site at <http://www.nevadageothermal.com/s/MediaVideo.asp>.

Press Release, Oct. 29, VANCOUVER, B.C. — Nevada Geothermal Power Inc. (NGP) (TSX-V: NGP, OTC-BB: NGLPF) announced today that the official Dedication Ceremony for their 49.5 MW Blue Mountain 'Faulkner 1' Geothermal Power Plant was held on October 22, 2009. The plant has been operating for approximately four weeks.

NGP was pleased to celebrate the significant achievement with nearly 200 government officials, stakeholders, employees, friends and family. The ceremony included speeches, the official ribbon cutting ceremony and tours of the completed power plant.

At the event, NGP was also presented with certificates from various government offices including a Certificate of Achievement from Governor Jim Gibbons, presented by Deputy Chief of Staff, Lynn Hettrick, a Letter of Support from Senator Harry Reid, read by Matthew Tuma, the Regional Representative, a Senatorial Certificate of Congratulations from Senator John Ensign, presented by Rural Director, Kevin Kirkeby and a Certificate of Special Congressional Recognition from Congressman Dean Heller, presented by District Representative, Ryan Cherry.

For more, see <http://www.nevadageothermal.com/s/News.asp> and http://www.nevadageothermal.com/i/pdf/10-27_Geothermal.pdf.



Renewable Energy and Climate Change

Treasury Allocates \$2.2 Billion in Bonds for Renewable Energy Development

Press Release, Oct. 27, Washington — As part of the Obama Administration's efforts to spur renewable energy production, the U.S. Department of Treasury today announced the allocation of \$2.2 billion in Clean Renewable Energy Bonds (CREBs) for 805 recipients across the country. Funded by the Energy Improvement and Extension Act of 2008 and the American Recovery and Reinvestment Act of 2009 (Recovery Act), these energy bonds help

government agencies, public power providers, and cooperative electric companies obtain lower cost financing for clean energy development projects.

"The Recovery Act's innovative bond programs provide communities around the country with financing to jump start important development projects," said Treasury Deputy Secretary Neal Wolin. "Because of the Clean Renewable Energy Bonds awards announced today, energy developers will be able to access lower cost credit to help make the shift to clean renewable energy production, benefitting both our economy and our environment."

The Treasury Department allocates bond authority to governmental agencies, public power providers, and cooperative electric companies involved in clean renewable energy development and production. The application deadline for the new CREBs allocations was August 4, 2009, with recipients being announced today. These bonds function as tax credit bonds which allow investors to receive federal tax credits in lieu of the payment of a portion of the interest on the bond. For CREBs, the federal tax credits will cover 70 percent of the interest on the bonds.

See <http://www.treasury.gov/press/releases/tg333.htm>.

EIA Issues State Energy Rankings -- Alaskans Use Five Times As Much Energy Per Capita as Do Residents of Rhode Island.

From Sustainable Energy Coalition/SUN DAY Campaign, EIA has issued a series of charts and maps ranking the states by energy production, consumption, and price, as well as carbon dioxide emissions from electric power producers. In terms of energy use per capita, Alaskans consume 1,062 million Btu, followed by residents of Wyoming, Louisiana, North Dakota, and Texas. The least energy-intensive per capita states were Rhode Island (206 million Btu), New York, California, Massachusetts, and New Hampshire. The worst five states in terms of carbon dioxide emissions by the electric power industry (in metric tons) are Texas, Ohio, Pennsylvania, Florida, and Indiana while the best five are Vermont, Washington DC, Idaho, Rhode Island, and South Dakota. Texas' emissions totaled 255,092,183 metric tons compared to 9,980 metric tons in Vermont.

See http://tonto.eia.doe.gov/state/state_energy_rankings.cfm.

Greenpeace Report Views Danger Points in Climate Legislation

Greenpeace released a report detailing apprehension about the climate legislation being considered in Congress. "The climate legislation currently pending in both houses of Congress is more likely to encourage the perpetuation of a fossil fuel economy rather than a swift transition to a clean energy future," reads the web page to the report entitled "Business as Usual." It outlines five "points of maximum danger," which are:

- The Clean Air Act is Being Threatened
- The Carbon Cap Has Little Bite
- Coal is Sanctified as "Clean" Energy Choice
- Handouts and Loopholes are Legion
- Renewable Energy is Provided Insufficient Support

I think its important to cover both sides on the climate legislation debate, or maybe all three sides....but one of those sides are the public interest and environmental groups that don't like the bill....they have good reasons...

"If these five points of maximum danger are not addressed, the legislation will succeed in perpetuating business as usual and fail to avert catastrophic climate disruption," according to Greenpeace.org.

See <http://solveclimate.com/blog/20091028/how-congress-threatens-undermine-clean-energy-future-protecting-coal> and <http://www.greenpeace.org/usa/press-center/reports4/business-as-usual>.

Fossil Fuels Receive More Than Double the Subsidies Over Renewables

Environmental Law Institute research shows that fossil fuels benefited substantially over renewable energy in subsidies from FY 2002–2008. Over that time, fossil fuels received \$72 billion, with \$29 billion for renewable fuels.

“The combination of subsidies—or ‘perverse incentives’— to develop fossil fuel energy sources, and a lack of sufficient incentives to develop renewable energy and promote energy efficiency, distorts energy policy in ways that have helped cause, and continue to exacerbate, our climate change problem,” John Pendergrass, ELI senior attorney told press. “With climate change and energy legislation pending on Capitol Hill, our research suggests that more attention needs to be given to the existing perverse incentives for ‘dirty’ fuels in the U.S. Tax Code.”

See <http://www.renewableenergyworld.com/rea/news/article/2009/10/fossil-fuels-subsidies-more-than-doubles-those-for-renewables#imageGallery>.



State News

Alaska. Unalaska in Negotiations for Geothermal Resource

Unalaska city manager Chris Hladick told press they are negotiating to buy the geothermal fluids and perhaps the land on a geothermal resource that has been in the works for development. The city was unable to come to an agreement with the land owner last year, but is in discussions again. The city is also negotiating with the Aleut Corporation for access to Ounalashka Corporation lands. Hladick said they are hoping to put a bid out for companies to conduct exploratory drilling by February.

See

<http://www.publicbroadcasting.net/kial/news.newsmain/article/1/0/1570933/Local.News/Preparing.for.the.future.geothermal.and.the.opening.of.the.Arctic>.

California. Cobb Holds Scoping Meeting on Proposed Bottle Rock Expansion

On October 27 the Country Community Development Department and the California Energy Commission answered questions on the proposed expansion of the Cobb Mountain geothermal project. Bottle Rock Power GeoResource plans to add two well pads near the existing Bottle Rock Power facility. The expansion will increase the plant's production from 15 MW to 35 MW.

Locals and environmentalists voiced concern over the expansion. The county is preparing an environmental impact report (EIR) with the public comment period on the report continues until Nov. 12. The completed report will take 10 to 12 months.

See <http://lakeconews.com/content/view/10960/764/>, <http://lakeconews.com/content/view/11001/764/>, and www.energy.ca.gov/sitingcases/bottlerock/index.html.

California: Governor Appoints Michael Picker Senior Advisor for Renewable Energy Facilities

Press Release, October 29 — Governor Arnold Schwarzenegger today announced the appointment of Michael Picker as senior advisor to the Governor for renewable energy facilities.

"Michael's knowledge and experience in environmental policy development and state and local government administration will be utilized to help California expedite the permitting of renewable energy facilities in the state," said Governor Schwarzenegger. "He shares my commitment to ensuring we invest in renewable energy projects, create jobs and build our state's green economy- bringing us closer to meeting our goal of 33 percent renewable energy by 2020."

Picker has been a partner for Lincoln Crow Strategic Communications since 2001. He served as deputy treasurer for investment for the California State Treasurer's Office in 1999 and chief of staff for then-Sacramento Mayor Joe Serna Jr. from 1991 to 1998. In the period between 1982 and 1991, Picker co-founded an environmental consulting business, the Toxics Assessment Group, and helped organize the Toxics Coordinating Project, a statewide nonprofit coalition of environmental, farm, labor and neighborhood groups that framed local and statewide policy on toxic hazards in California. From 1980 to 1982, he worked as a deputy assistant for toxic substances control under Governor Jerry Brown and helped establish new hazardous waste facility siting and management programs that are now part of the Department of Toxic Substances Control.

"I am honored and excited to take on this new position at such a critical time," said Picker. "I look forward to working with Governor Schwarzenegger and his administration to ensure we expedite the permitting of renewable energy facilities and bring us closer to meeting California's renewable energy goals."

For more, see <http://gov.ca.gov/press-release/13741>.

Nevada: BLM Announces Plans for EIS on Two Churchill County Geothermal Projects

This week, BLM officials confirmed plans for a formal environmental impact statement on two Churchill County projects, according to mercurynews.com. The environmental review is scheduled for the beginning of 2010, the final impact statement will be released in December 2010, and a record of decision in February 2011.

The projects are proposed by NV Energy, Ormat Technologies, and the Vulcan Power Co. and include seven 30- to 60-MW geothermal power plants.

See http://www.mercurynews.com/california/ci_13639003.



International News

Germany: Fraport, D&S Geo Innogy Enter Joint Venture for Walldorf Geothermal Field

Fraport and D&S Geo Innogy have initiated a joint venture to explore the Walldorf geothermal field on the upper Thine Rift, according to American chronicle.com. If exploration is successful, the partners will develop a hybrid power station, combining geothermal power with biogas for production of electricity and heat. The energy would be used at Frankfurt Airport, owned by Fraport. Exploration will consist of a series of seismic studies over the next few months. D&S Geo Innogy will hold 75% interest and Fraport will hold 25% interest.

See <http://www.americanchronicle.com/articles/yb/137014819> and <http://www.theengineer.co.uk/Articles/313762/Geothermal+plant+to+heat+airport.htm>.

Indonesia. ADB to Provide \$40 million for Lahendong IV Geothermal Facility

The Asian Development Bank (ADB) will fund the Lahendong IV geothermal power plant construction, according to thejakartapost.com. The funding is part of ADB's program to help the development of renewable energy in Indonesia. The Indonesian government plans to generate 10,000 MW of electricity, with about 4,700 MW from geothermal power plants.

"We've agreed to provide a loan of US\$40 million, which is 90 percent of the total construction cost of the geothermal power plant. Its construction will start next year and is expected to have a generating capacity of 20 megawatts (MW)," Ayun Sundari, the director of ADB's external relations told press. ADB previously provided \$30 million for the 20-MW Lahendong II geothermal station.

See <http://www.thejakartapost.com/news/2009/10/28/adb-fund-lahendong-iv-geothermal.html>.

Indonesia. Geothermal to Replace Coal for Some Power Plant Projects

The Energy and Mineral Resources Department announced plans to switch some coal power projects to geothermal, according to tempointeractive.com. "Some of the coal power plant projects will be switched to geothermal plant projects," Director General of Electricity and Energy Use Jacobus Purwono told press. The second phase of 10,000-MW power plant projects under instruction of President Susilo Bambang Yudhoyono includes 4,733 MW of geothermal plants and coal-based plants with 2,616 MW.

See <http://www.tempointeractive.com/hg/ekbis/2009/10/26/brk,20091026-204624.uk.html>.

Indonesia. Geothermal Energy Tender to be Held in May 2010

The Banten provincial mining and energy agency is focusing on geothermal energy in Serang, Pandeglang, and Lebak regencies, with a combined capacity of at least 800 MW, according to worldofrenewables.com. "We have for quite some time been trying to make use of the geothermal energy and produce it into big electric energy," Head of the mining and geological division of the Banten provincial mining and energy agency Eko told press. Eko added he has prepared a tender which will be held in May 2010.

See http://www.worldofrenewables.com/latest_news/geothermal/banten_concentrates_on_geothermal_energy_exploitation.html.

Philippines. EDC-GCGI Assumes Operation of Palinpinon and Tongonan Geothermal Plants

The Energy Development Corporation (EDC)- Green Core Geothermal Inc (GCGI) has purchased the 192.5- MW Palinpinon and 112.5-MW Tongonan geothermal plants, according to pia.gov.ph. The plants were acquired at a September auction from the Power Sector Assets and Liabilities Management Corp. (Psalm).

Valencia Mayor Rodolfo Gonzalez spoke at the turnover ceremony, saying it is a welcome development and EDC is still the local government unit's partner. "I expect that we will have a better working relationship with EDC now and we welcome that in Valencia. It doesn't matter who owns it," the mayor said.

See <http://www.pia.gov.ph/?m=12&r=&y=&mo=&fi=p091029.htm&no=64>.

Philippines. DOE Announces Renewable Energy Awards to 18 Companies

The Philippines Department of Energy (DOE) announced a \$2.2 billion investment for 87 renewable energy contracts with 18 companies, according to pepei.pennnet.com. "We are very happy to note that the Renewable Energy Act is working very well as reflected in the enthusiasm of investors in the RE development program of the country," Rep. Miguel Arroyo, chairman of the House Committee on Energy told press.

Companies awarded were: Deep Ocean Power Philippines Inc. (DOPPI); Trans-Asia Renewable Energy Corp. (TAREC); Constellation Energy Corp (CEC); Century Peak Energy Corp.; PNOC-Renewables Corp.; Energy Development Corp. (EDC); First Gen Bukidnon Power Corp.; Luzon Hydro Corp.; Lucky PPH International, Inc.; First Gen Mindanao Hydro Power Corp.; AV Garcia Power Systems Corp.; Benguet Electric Cooperative Inc.; Alternergy Philippine Holdings Corp. (APHC); DOST-Industrial Technology Development Institute; and Hedcor Inc.

See

http://pepei.pennnet.com/Articles/Article_Display.cfm?Section=ARTCL&SubSection=Display&PUBLICATION_ID=6&ARTICLE_ID=370356.

UK. DECC Announces £6 million for Deep Geothermal Technologies

The UK's Department of Energy and Climate Change (DECC) has announced £6 million toward deep geothermal technologies, according to taylorvinters.com. Lord Hunt, energy and climate change minister, told press: "Deep geothermal power from the south-west of England alone could meet two per cent of the UK's annual electricity demand, potentially creating thousands of jobs in the building and running of new power plants."

The fund is part of the DECC low carbon investment fund and will help companies carry out exploratory work. "Deep geothermal energy is an exciting and innovative technology that could provide clean, low carbon and renewable power and heat for the UK," according to Lord Hunt.

See <http://www.taylorvinters.com/node/1953>.



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

Drilling Program Manager, Major Geothermal Power Company in CA

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

Added This Week

RFP for Geothermal Drilling – Temperature Gradient Holes, Snohomish County (November 6)

Notice is hereby given that the Board of Commissioners of Public Utility District No. 1 of Snohomish County will receive and open sealed proposals for the following work:

Request for Proposal No. 1148
PWC – Drill Geothermal Temperature Gradient Holes

at the District office of Contracts/Purchasing, 1802 - 75th Street SW, Everett, Washington, on the 6th day of NOVEMBER 2009, at 2:00 p.m. (Local Time). Address proposals to P.O. Box 1107, Everett, Washington 98206. Proposals received after this time will not be considered. The bid opening is public and all proposals will be read aloud. Each bid shall be accompanied by a bid security in the amount of 5 percent (5%) of the total amount bid, excluding tax.

This contract work consists of drilling a geothermal exploratory corehole 1,500 to 2,000 feet deep at two locations in or near Snohomish County, Washington.

This Notice to Bidders, the Planholders List, Addenda, Bid Responses, and Award Recommendation are available for viewing on the District's website at www.snopud.com. For more information concerning this work, please call: (425) 783-5500 or E-mail us at (bids@snopud.com).

The District encourages minority and women's business enterprises to request these contract documents and to bid on this work.

RFPs Available on GEA Web Site

RFP for State Energy Program, DOE (Due Dates Vary)

RFP for Contribution of Cost Share for Transportation Related Recovery Act RFPs, CEC (Due Dates Vary)

RFP for Technology and National Research Priorities, Recovery Act (Ongoing)

RECs – Ohio (no date given)

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

Renewables and RECs – Texas (November 13)

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

SMU Geothermal Conference, November 3–4 (Dallas, TX)

It's time to register for Southern Methodist University's conference on Geothermal Energy Utilization Associated with Oil and Gas Development, November 3–4 in Dallas, Texas

This international geothermal energy conference specializing in the enhancement of existing oil and gas wells for electrical production from the Earth's heat. Geothermal energy produces clean, renewable electrical power that is considered a base load source since it produces 24 hours a day, 365 days a year. The energy is extracted from well fluids using compact turbines with binary fluids. Learn how to take wells and instead of abandoning them, energize them with geothermal power. A high water flow geopressure well becomes an immediate revenue path if converted to electrical production. With systems installed in Chena Hot Springs, Alaska and the Wyoming Rocky Mountain Oil Field Testing Center, and the soon to be completed Florida Jay Field and in Mississippi, the ability to use low temperature fluids is no longer just a concept, it's a reality. This "how-to" conference will provide you with the information necessary to develop a geothermal energy portfolio.

Go to http://smu.edu/geothermal/Oil&Gas/2009/Geothermal_Energy_Utilization.htm. Contact Maria Richards 214-768-1975 or Gillian McWhirt at 214-768-2749.

Added This Week

Geothermal Competitive Lease Sale, BLM, November 12 (Lakewood, CO)

The Colorado State Office is offering competitively 1 parcel containing 799.2 acres of Federal lands in the State of Colorado for geothermal leasing. The competitive oral sale will begin at 9 a.m. on November 12, 2009. The sale is held at the Bureau of Land Management, Colorado State Office, 2850 Youngfield Street, Lakewood, Colorado 80215. To participate in the bidding process, you must register to obtain a bid number. We will begin registering bidders at 8 a.m. on the day of the sale. Bidders must register in order to bid on a parcel.

For more, see

http://www.blm.gov/pgdata/etc/medialib/blm/co/programs/oil_and_gas/Lease_Sale/2009.Par.67759.File.dat/Sale%20Notice%20Nov%202009.pdf.

GEA Events

Calendar of Upcoming GEA Events 2010

December 8-10, 2009	PowerGen International 2009 Las Vegas Convention Center, Las Vegas, NV
January 2010	GEA Geothermal Energy Finance Forum New York, NY
February 23-25, 2010	Renewable Energy World North America 2010 Austin, TX
April/May 2010	GEA Geothermal Symposium Washington, DC
July 2010	GEA Geothermal Energy Workshop Las Vegas, NV
TBA	GEA Geothermal Expo and Conference GEA's annual Geothermal Energy Expo, date and location to be announced

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 Available on GEA Web Site

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

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

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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