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National News

Senate White Paper Distributed, Seeks Input on Clean Energy Standard

Senator Jeff Bingaman, D-New Mexico and Senator Lisa Murkowski, R-Alaska, Chairman and Ranking Member, respectively, of the US Senate Committee on Energy and Natural Resources released a white paper on questions and design elements of a Clean Energy Standard (CES), citing Obama's proposal to require 80% of U.S. power to come from clean energy sources by 2035.

The paper asks the following questions: "Is the goal to reduce greenhouse gas emissions, lower electricity costs, spur utilization of particular assets, diversify supply, or some combination thereof? Depending on the goals, is a CES the right policy for the nation at this time? If so, is 80 percent by 2035 the right target? If not, should alternatives to reach similar goals be considered?" The paper solicits CES design suggestions, and the committee is [looking for comments from parties interested and affected by a CES](#). Responses are due by 5 pm on Monday, April 11.

BLM Nevada Leases 17 Geothermal Parcels in Competitive Sale

On March 22, the [Nevada BLM State Office held a competitive oral sale](#) of Federal lands in the State of Nevada for geothermal leasing. Results were posted on their web site the same day, showing that 17 parcels sold for a total acreage of 42,627.47. The highest bid on a parcel was \$253,680.00, while the highest bid per acre was \$60. A total of \$456,353.00 in transactions was reported.

The following companies won bids (one parcel apiece, unless otherwise noted): Mustang Geothermal Corp, Homestretch Geothermal LLC, Magma Energy US Corp, Ormat Nevada Inc (3 parcels), Geothermal Technical Partners, TGP Development Company LLC (5 parcels), Earth Power Resources (3 parcels), and Standard Steam Trust LLC [[see "Sale Results," PDF](#)]. There were 34 available parcels not sold by competitive bid, and those will be available non-competitively for \$2 per acre.

BLM Gives Priority Status to 19 Renewable Energy Projects

The [BLM in 2011 has given priority status to 19 projects in renewable energy](#)—five geothermal, nine solar, and five wind. This means that these projects have been proven to have progressed far enough to formally start the environmental review and public participation process. Each of these projects could be cleared for approval by the end of this year. The Fish and Wildlife Service and the National Park Service provided assistance in developing the list, and the projects are all located in areas of low impact on the environment.

Table 1. BLM Geothermal Energy Priority Projects (from BLM):



Geothermal Energy Projects

State	County	Project Name and Applicant	Potential Output*	Acreage	Status	Information Products
NV	Churchill	Coyote Canyon (Terragen) (APPROVED)	62 MW	3,960 on BLM, 760 other acreage	Final EA published Jun. 7, 2010. Decision published Mar. 7, 2011	MAP
NV	Churchill	Salt Wells (Ormat)	40 MW	7,391	NOI published Sept. 11, 2009. Draft EIS published Jan. 28, 2011.	
NV	Churchill	Salt Wells (Vulcan)	120 MW	1,254	NOI published Sept. 11, 2009. Draft EIS published Jan. 28, 2011.	
NV	Churchill	Fallon/Salt Wells (Sierra Pacific Power Co.)	230 MW	7.4 (transmission)	NOI published Sept. 11, 2009. Draft EIS published Jan. 28, 2011.	
UT	Beaver	Cove Fort (Enel Geothermal LLC)	37 MW	5,679 acres	Pending	

* Potential output may change depending on the analysis and review of each project.

The projects include three geothermal plants in northern Nevada and a transmission line that would deliver generation from these plants. The [three projects in the Salt Wells area](#) are under environmental review, with a public comments on a draft invited before March 28. BLM Director Bob Abbey told press the priority designation marks a focus of BLM manpower and other resources on these promising projects.

GEA to Host Technology and International Development Forum in Nation's Capital

GEA Geothermal Energy Technology and International Development Forum, developed in conjunction with the U.S. Department of Energy and U.S. Department of Commerce — Press Release, March 23 —As the geothermal industry is poised for record setting expansion, leaders will gather in Washington DC on Wednesday, May 4 for the Geothermal Energy Association (GEA) 2011 Geothermal Energy Technology and International Development Forum which will be held at The Ronald Reagan Building and International Trade Center.

“Our industry is developing rapidly here in the United States, but the growth of geothermal power abroad has been fantastic as well,” said Karl Gawell, GEA Executive Director. “Our program is going to allow us to see how and where these many projects are coming along, while also giving an update on the many new technologies that are coming into the geothermal market.”

The Forum was developed in conjunction with the U.S. Department of Energy and the U.S. Department of Commerce. Over two-hundred industry leaders, foreign diplomats, financiers and government officials are expected to participate.

“Having the Departments of Commerce and Energy, as well as leaders from such a broad spectrum of geothermal supporters, as a part of this event will provide a great insight into where the geothermal industry currently stands and where it will be going over the next few years,” Gawell said.

The program showcases geothermal projects, trends, and governmental policies in the U.S. and around the world. Topics covered will include the geothermal market today, projects under development in the U.S. and internationally, outlook for the future of the geothermal market, jobs and money, new technologies, and federal agency support at home and abroad. The Forum will also feature an expo area.

For more information, including the full agenda, visit: http://www.geo-energy.org/events/May2011_ShowcaseForum.aspx. Follow GEA on [Twitter](#). Become a fan on [Facebook](#).



Company News

GEA President Sends Letter of Support to UNR on Behalf of NBMG

The following letter was sent March 22 to Dean Jeff Thompson, College of Science, on behalf of the Nevada Bureau of Mines and Geology. The Nevada state geological survey has been informed it must cut its state budget by 52%, and that it may go to zero the following year.

Dear Dean Thompson,

On behalf of the Geothermal Energy Association and in particular its many Nevada members, I am writing to express our serious concern about the deep budget cuts being proposed for the Nevada Bureau of Mines and Geology.

Geothermal electricity generation in the Western United States is an important alternative to fossil and nuclear power, and the U.S. Geological Survey estimates that less than 10% of this potential has so far been located and developed. Developments in science and technology, supported by federal and state public policies, have resulted in a strong growth in efforts to utilize more of the untapped geothermal resources. With over 100 new geothermal projects under development in the U.S., nearly half are located in Nevada.

NBMG has played an important role in supporting this growth. The Bureau's scientific and educational work facilitates new geothermal development in Nevada, and significant reductions in NBMG's efforts will adversely impact the future of geothermal energy in the state. Their research and education efforts have stimulated new exploration and the identification of new geothermal fields, particularly in Nevada. By helping federal and state agencies and private industry to better understand the geological underpinnings of the geothermal resource, NBMG supports sound and sustainable geothermal development in Nevada.

Supporting expanded geothermal development in Nevada pays substantial dividends to the state. According to the Nevada Geothermal Council, Nevada's geothermal industry creates thousands of long term, good paying jobs for Nevadans, generates millions in taxes, spends billions on Nevada vendors, generates state and county revenue from federal lands, and avoids the atmospheric discharge of 2.25 million tons of greenhouse gases annually.

Geothermal energy is still in its early stages of development in Nevada and the West. It needs continued support for sound science to maintain its growth, particularly in geology, geophysics, geochemistry and

related disciplines. It is our strong view that NBMG is cost-effective in providing economic returns to the University of Nevada, Reno, and to the state. NBMG is an essential part of the scientific and educational infrastructure that is needed to sustain development of the state's underutilized geothermal resources.

We urge you to continue to support the work of the Nevada Bureau of Mines and Geology.

Sincerely,
Paul Thomsen
President

Renewable Energy and Climate Change



Safe Energy Advocates Write to Obama, Outline Nuclear Reactor Phase-out

In a letter dated March 23, a group letter from the Sustainable Energy Network and 142 "safe energy advocates" was sent to President Obama, members of his Administration, and all Members of the U.S. Congress regarding the recent nuclear accident in Japan.

The letter, titled "Japanese Nuclear Accident – A Tragic Reminder; It's Long Past the Time to End Reliance on Nuclear Power," follows:

President Barack Obama
Secretary of Energy Steven Chu
U.S. Senator Harry Reid
U.S. Senator Mitch McConnell
U.S. Representative John Boehner
U.S. Representative Nancy Pelosi
Members, U.S. Congress

Dear Sir/Madam:

We, the 142 undersigned safe energy advocates, have been speaking out about the risks and dangers posed by nuclear power for years – for many of us, since before the 1986 Chornobyl and 1979 Three Mile Island accidents as well as the hundreds of other radioactive releases, unplanned shut-downs, and other mishaps that have continuously plagued both the U.S. and the international nuclear industries since their founding.

While nuclear power's unacceptable safety, environmental, public health, economic, and national security risks should have been self-evident long before now, the latest unfolding nuclear disaster in Japan once again underscores the following:

Nuclear plants can never be designed to withstand all potential "acts of God."

Nuclear plants can never be designed to withstand all instances of "human error."

Nuclear plants can never be designed to withstand all types of "mechanical malfunction."

Nuclear plants can never be designed to withstand all forms of "terrorist attack."

There is no such thing as "safe" nuclear power.

There is no such thing as "clean" nuclear power.

There is no such thing as "cheap" nuclear power.

Consequently, the Price-Anderson cap on liability in the event of an accident should be repealed, all proposed governmental financial and regulatory incentives for new nuclear plant construction - including loan guarantees, accelerated licensing, and inclusion in a "clean energy standard" - should be rejected, and no new reactors should be built.

Existing nuclear reactors should be phased out as rapidly as possible, beginning with the oldest and/or most unsafe, and no presently-licensed reactors should have their operating lives extended.

Safety standards for existing reactors should be substantially tightened while they continue to operate and federal nuclear funding should be redirected to the orderly phase-out of those reactors as well as the safe decommissioning of closed reactors and disposal of radioactive waste.

National energy policy and funding should be refocused on greatly improved energy efficiency and the rapid deployment of renewable energy sources which are far cleaner, safer, and cheaper than nuclear power.

The 142 signers hail from all regions of the U.S.

State News

Colorado: State, BLM Agree to Coordinate on Geothermal Leasing

An agreement between the U.S. Bureau of Land Management and the Colorado Department of Natural Resources marks an effort to improve communication between the two on geothermal lease nominations and in both federal and state coordination with those obtaining leases. According to [a statement from BLM \[PDF\]](#), "The MOU ensures an exchange of information and consultation between agencies when BLM and the Colorado State



Land Board receive nominations to lease geothermal parcels, as well as when any other division within DNR seeks to convey rights to geothermal resources. The agreement also ensures that lessees will be notified of applicable state and federal laws and regulations related to water rights, rights-of-way issues and protection of existing geothermal features.”

Montana: Commissioners to Review Bell Diamond Geothermal Proposal

Commissioners are scheduled this week to [review a draft lease agreement on geothermal energy explorations at the Bell Diamond mine yard](#). Dennis Lester, the developer seeking rights to the sight, has planned a four-phase approach, with an estimated \$140 million cost. Lester estimates between 5 and 20 MW of energy are available from the site.

International News



Americas

Canada: Federal Budget Supports Clean Energy; but Con Mine Community Rejects Loan for Geothermal

The [Canadian 2011 Federal Budget released this week included new technology initiatives](#), including \$97 million for technology and innovation in the areas of clean energy and energy efficiency, \$8 million in funding for the promotion of deployment of clean energy technologies in Aboriginal and Northern communities, \$40 million allocated as part of the Sustainable Development Technology Canada (SDTC) program to support the development and demonstration of new clean technology projects on a not-for-profit basis, and expansion of tax support for clean energy generation through the provision of an accelerated capital cost allowance rate.

The Canadian Geothermal Energy Association (CanGEA) said many of these elements are positive for development of geothermal energy projects in the country, though more could be done. “[We urge] the federal government to go one step further and establish a national program for geothermal energy that could unlock more than 5,000 MW of geothermal power potential in Canada, which would provide Canadians clean and renewable energy that is available around the clock,” commented Alexander Richter, Director of CanGEA.

Meanwhile, residents of Yellowknife, where the abandoned gold mine, Con Mine, could potentially provide heat for a geothermal district energy system, made a [majority decision to not allow the city to borrow \\$49 million for the geothermal project](#), in a 1,362 to 997 vote.

The federal government has offered Yellowknife a \$14-million Clean Energy Fund grant, but the city must first come up with its own funding as well. "There was discussion from private companies that were interested in investing in it, so we'll chat with them and see what their interest is, then talk to the federal government and if

there's a Plan B," Mayor Gordon Van Tighem told press. He added that it was unclear whether Yellowknifers are against geothermal district heating project in general or just opposed to the city borrowing money for it.

Peru: Geothermal Exploration Granted in Andes

Hot Rock Ltd., based in Australia, and investment group Andes Power [received authorization for geothermal exploration activities in Peru](#). The joint venture will have up to 24 months to drill for geothermal resources at the location in the southern Andes.

Africa

Rwanda: Government Targets \$935 Investment in Geothermal Over 7 Years

On March 22, Rwanda's government released a statement targeting a [goal of 310 MW of geothermal energy, to be developed over the next seven years](#). "The geothermal sources have been identified between Gisenyi and Karisimbi Volcano and Bugarama," according to the statement. Rwanda is located in the East African Rift Valley, known for its geothermal resources.

The initial project "will cost in total \$30.2 million for drilling three exploration wells and doing the site preparation, which will include availing infrastructure on site," said the statement. Eventually the total cost is expected to be about \$935 million. Rwanda eyes a solution for severe electricity shortages and facilitated growth of production in its raw commodities: coffee, tea, and minerals such as tin ores, wolfram, coltan and gold.

Asia/Pacific

Australia: Tax Deduction Extended to Geothermal Explorations

The Australian government has announced tax reforms [including a deduction for geothermal energy explorations](#) from July 2012. The update to the tax law extends the definition of exploration, and would put geothermal energy on the same playing field as traditional hydrocarbon energy source explorations. "The amendment to the tax law is a win for the geothermal industry in Australia that will help remove barriers to investment in geothermal energy and improve the economics of geothermal exploration," Resources and Energy Minister Martin Ferguson said.

Indonesia: Panax Secures Its Third Geothermal Project in Indonesia

Brisbane's [Panax Geothermal has announced a new agreement with the government's PT Petrogas Jambi Power](#) to begin geothermal explorations on the east coast of Sumatra. The joint venture will now apply for licenses to explore and develop up to 80 MW of geothermal power. "Jambi Power has extensive data and information about the potential geothermal resource, significantly reducing the risk on this project," Panax Managing Director Kerry

Parker told press. Panax also has deals to build two geothermal power stations in Sumatra and Flores with the Bakrie Group.

New Zealand: Mighty River Interim Report Shows Importance of Geothermal

Geothermal opening up offshore growth options for Mighty River — Press Release [\[Full story\]](#), March 21 — Mighty River Power's 2011 Interim Report released today shows the importance of geothermal expertise in broadening the company's domestic generation portfolio and also in opening up new growth opportunities offshore.

Mighty River Power Chair, Joan Withers, said the strategic investment of \$1 billion, including the addition of two large geothermal plants in New Zealand, over the past five years were important milestones in the sustained growth and evolution of the company. New geothermal capacity was a major contributor and driver of the 22% increase in the company's earnings (EBITDAF) to \$233.6 million for the six months (to 31 December 2010).

Mrs. Withers said geothermal was now the third-most important fuel for generation in New Zealand, making up about 13% of all generation in industry data released this week from the Ministry for Economic Development.

"We are seeing the importance of geothermal, at a company level in broadening and diversifying Mighty River's predominately renewable generation base – reducing exposure to the risks of weather and hydrology. And, for New Zealand Inc, this is an important story both in increasing generation from renewables and opening up new growth options offshore.

Philippines: EDC Allocates P2.65 billion to Rehabilitate Geothermal Plants

Energy Development Corp plans to spend P12 billion on expansion projects in 2011. [P2.65 billion of that will go toward prioritizing the rehabilitation of its geothermal power plants](#) to run at full capacity through two subsidiaries. Green Core Geothermal Inc. operates the 112.5-MW Tongonan 1 and 192.5-MW Palinpinon geothermal power plants in Leyte and Negros Oriental. Its other subsidiary Bacman Geothermal handles the 150-megawatt Bacon-Manito (BacMan) geothermal power plants in Albay and Sorsogon.

Europe

Ireland: SLR Consulting Helps Gain Planning Permission for Geothermal Station

First Geothermal Station in Ireland — Press Release [\[Full story\]](#), March 18 — SLR Consulting has successfully obtained planning permission for the development and operation of the first geothermal energy generation plant in Ireland.

Working on behalf of Newcastle Energy Ltd, SLR scoped, prepared and submitted the planning application along with the environmental impact statement. Planning permission was granted by South Dublin County Council to

begin developing the renewable energy source within just four months with no third party appeals against the decision.

SLR Ireland Managing Director Tim Paul said: "The comprehensive scoping and pre-planning consultation carried out in conjunction with Newcastle Energy Ltd, together with the high quality of the application documentation combined to ensure a successful planning decision in a very short time frame.

Based at Greenogue Business Park, Rathcoole, County Dublin in Ireland the development will consist of the initial drilling of two deep wells to an approximate depth of 4000 meters.

Geothermal Heat Pumps and Direct Use



GEO Welcomes Douglas Dougherty as President

Trade Association for Geothermal Heat Pumps Seeks Industry Growth—Press Release [\[Full story\]](#), March 17, -- Geothermal Exchange Organization (GEO) Chairman of the Board Daniel Ellis (ClimateMaster, Inc.) recently announced that Douglas A. Dougherty has accepted the position of GEO President, effective March 21.

GEO is a non-profit trade association providing education and advocacy for the geothermal heat pump (GHP) industry. GHP systems tap the renewable energy of the Earth, and typically save 50% or more in heating and cooling costs for residential and commercial buildings. GHPs offer significant reductions in pollution and greenhouse gases from conventional energy sources.

Prior to accepting his new position with GEO, Doug was President of the Illinois Telecommunications Association (ITA), an inclusive group of more than 60 services providers operating in Illinois. ITA members include local exchange carriers, wireless providers, interexchange carriers and competitive local exchange carriers. He was responsible for articulating their points of view before the Illinois Commerce Commission, the legislative and executive branches of Illinois government, and to the public.

"The GEO Board of Directors and staff are excited that Doug has decided to lead our organization," said Ellis. "Doug's credentials and experience at the highest levels of government will bring insight and new directions to our efforts and the success we have already achieved for the geothermal heating and cooling industry nationwide."



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

Notices



New This Week

Watch Event Broadcast from 2011 Renewable Energy World North America Conference & Expo

In early March, the GEA and many experts in the geothermal industry participated in aspects of the Renewable Energy World North America Conference & Expo (see story on [GEA blog](#) or in [March 17 edition of GEW \[PDF\]](#)). Now you can [watch the Event Broadcast](#) from [renewableenergyworld.com](#) to view event coverage in Tampa, Florida from all facets of renewable energy.

For Students! Princeton Review and Entrepreneur Magazine Rank Top 16 Green MBA Programs

Princeton Review and Entrepreneur Magazine have [released their first rankings of the top 16 green MBA programs in the U.S.](#) Columbia University, Duke University, Stanford University, and New York University were not surprising to see on the list, but some of the less-knowns include Portland State, Babson College, and Bentley University. The rankings considered green curriculum, local impact, and faculty and student rankings.

Current Notices

Exhibitor Registration Open for GEA Geothermal Expo

Washington, DC (March 11, 2011) – Registration for exhibitors at the 2011 GEA Geothermal Expo in San Diego, Calif. from Oct 23-26 has opened. The GEA Geothermal Energy Expo is 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 2011 Expo is certain to be the largest-ever gathering of the geothermal community,” said GEA Marketing and Events Director Kathy Kent. “Each year the growing geothermal industry comes together for this event and it has become the most vital gathering for companies and leaders developing geothermal resources around the world.”

The 2010 Expo in Sacramento featured more than 2,500 attendees from 42 different states and 13 different countries. The sold out Expo Hall featured 162 exhibitors coming from 34 different states and 10 different countries.

For more information about exhibitor and sponsorship opportunities, please go to

<http://www.geothermalenergy2011.com/> or contact Kathy Kent at (202) 454-5263 or kathy@geo-energy.org.

First-Ever GEA Honors Award Program—Call for Entries

Recently the Geothermal Energy Association (GEA) announced the call for entries for the first-ever GEA Honors award program. “We are excited about the awards and the opportunity to recognize the geothermal industry’s most innovative and inspiring developments from the past year,” said Karl Gawell, Geothermal Energy Association Executive Director. “The GEA Honors will shine a light on the contributions being made by the

individuals and companies who are doing an exemplary job of promoting and growing geothermal power.” Nominations are currently being accepted for the awards program. In this inaugural year, awards will be given to GEA member companies in the following categories:

- Technological Advancement – Awarded to an individual or company that has developed a new, innovative, and/or pioneering technology to further development
- Environmental Stewardship – Awarded to an individual or company that has fostered outstanding environmental stewardship through the use of geothermal systems. Award to be presented in conjunction with the environmental and Energy Study Institute (EESI)
- Economic Development – Awarded to an individual or company that has made a substantial contribution to the development of local, regional, or national markets through the development of geothermal systems

Additionally, the GEA Honors will be accepting nominations for special recognition of those individuals and companies who have made outstanding achievements in the geothermal industry. These awards are open to GEA members as well as non-member companies and individuals. To place nominations for GEA Honors 2011 please go to: <http://www.geo-energy.org/GEAHonors.aspx>.

Sponsorship Opportunities Available for GEA Events

Your company has the opportunity for high visibility at GEA's 2011 events. In addition to providing the financial support needed for GEA to undertake successful events, GEA events feature media availabilities with sponsors which garner extensive coverage in mainstream press outlets.

Sponsorship Opportunities remain for the following events.

- May 4, 2011, GEA Geothermal Energy Technology and International Development Forum, Washington, DC
- August 16–17, 2011, GEA National Geothermal Summit, Reno, NA

Sponsorship details are posted online: <http://www.geo-energy.org/images/GEA2011SponsorshipOpps9.pdf>.

Please contact Kathy Kent, Kathy@geo-energy.org. We thank you in advance for your consideration.

Obama Administration Announces Launch of i6 Green Challenge to Promote Clean Energy Innovation and Economic Growth

Press Release [[Full story](#)], March 10 — The U.S. Department of Energy joined with the U.S. Commerce Department's Economic Development Administration (EDA) and its Office of Innovation and Entrepreneurship today to announce the opening of the \$12 million i6 Green Challenge, which will also be conducted in partnership with the U.S. Department of Agriculture, the U.S. Environmental Protection Agency, the National Science Foundation, and Commerce's National Institute of Standards and Technology and U.S. Patent and Trademark Office.

The funding will support awards for six teams around the country with the most innovative ideas to drive technology commercialization and entrepreneurship in support of a green innovation economy, increased U.S. competitiveness and new jobs. The Department of Energy will invest up to \$2 million to support the \$12 million multi-agency i6 Green Challenge, which will establish or expand Proof of Concept Centers across the U.S. In order to be eligible for DOE funding, applicants will be required to demonstrate innovation in the areas of renewable energy, energy efficiency, or green building technology.

Employment



New This Week

Reservoir Engineering Manager – Geothermal, Chevron, Jakarta, Indonesia

Chevron Corporation is one of the world's leading integrated energy companies with subsidiaries that conduct business across the globe. The company's success is driven by the ingenuity and commitment of approximately 62,000 employees who operate across the energy spectrum. Chevron explores for, produces and transports crude oil and natural gas; refines, markets and distributes transportation fuels and other energy products and services; manufactures and sells petrochemical products; generates power and produces geothermal energy; and develops and commercializes the energy resources of the future, including biofuels and other renewables. Chevron is based in San Ramon, California.

Chevron Asia Pacific Exploration and Production is accepting online applications for the position of Reservoir Engineering Manager located in Jakarta, Indonesia.

Overview: This position will manage and lead the Reservoir Engineering Department in Geothermal and Power Operations-IndoAsia (GPO-I) directing the efforts of cross-functional teams to plan and implement appraisal and development programs including new wells and facilities to maximize the expected value of the Salak and Darajat geothermal fields. This is a key leadership position in the GPO Management Team responsible for ensuring that the level of technical analysis is at its highest. The Reservoir Engineering Teams' workflow requires optimization of reservoir and well performance, integration with production facilities and electricity generation facilities, economic modeling and decision analysis.

How to Apply: To learn more about this exciting position and to apply visit www.chevron.apply2jobs.com and search by requisition 081116435. All applicants must apply via the Chevron online application process.

For Students! EPA Summer Employment Program Application Underway

From EPA: The U.S. Environmental Protection Agency is looking for energetic and highly motivated students for summer employment. Numerous opportunities are available within EPA for students to gain valuable work experience while contributing to the mission of protecting human health and safeguarding the environment. Student summer employment opportunities are available at EPA's headquarters in Washington, D.C., and at regional office and laboratory locations nationwide.

The Student Summer Employment Program will be used for most of our summer hiring. EPA primarily hires high school and college students for administrative/clerical positions as well as technical positions in areas such as life sciences, program or policy analysis, and engineering. Most summer positions have salaries ranging from the GS-2 to GS-7 level (a base hourly rate of \$9.59 to \$16.28, excluding locality pay). Students must meet the qualifications described below plus additional requirements, dependent upon the grade level of the position and needs of the organization. [More information and application information is available on the EPA web site.](#)

Employment Opportunities

Details available at http://geo-energy.org/empl_opport.aspx.

Sr. Applications Engineer, ElectraTherm

Start date: Immediate, Posting Date: 3/9/2011

Contact: Jan Petersen – jpetersen@electratherm.com, 775-398-4680

Associate Director, California Geothermal Energy Collaborative, UC Davis Energy Institute

For more information on the position, go to the UC Davis staff web page

<https://www.employment.ucdavis.edu/applicants/jsp/shared/frameset/Frameset.jsp?time=1297906619426>

Click on search button and scroll down to the listing. The Quick link to apply will take you directly to the posting - www.employment.ucdavis.edu/applicants/Central?quickFind=58431

Sr. Engineer, McHale & Associates, Arvada, CO

McHale is seeking a Sr. Engineer to conceive, develop and implement projects of major significance to the business plan.

Consultant to Assess the Geothermal Market in Turkey, EBRD

The European Bank for Reconstruction and Development is considering a wide range of renewable energy proposals in Turkey, some of which are in the geothermal sector, and as such requires a consultant to provide an assessment of the Geothermal Market in Turkey. See <http://www.ebrd.com/pages/homepage.shtml> and <http://www.balkans.com/open-news.php?uniquenumber=91332>

General Manager, Geothermal Exploration, Origin Energy (Indonesia)

Jakarta based with domestic and international travel. If you are interested in this opportunity or other geothermal opportunities please contact: Jennifer Blake on +617 3867 0022 or email jennifer.blake@originenergy.com.au.

NREL Seeking Applicants for Geothermal Analysis Group

We're looking for applicants with geothermal or related technical backgrounds that have strong analytical skills and good writing/communication skills. If you have any graduate students, post-docs, former undergrads with some experience, or other contacts that are looking for employment and would be good fits for any of these positions, please forward them the information. They can also apply for the positions online at http://www.nrel.gov/employment/job_openings.html. You may also contact:

Senior Level Assistant Site Manager, Operations and Maintenance

Contact: Richard@mrspokane.com or call 509-340-2852 Ext. 18

Senior Principal Geothermal Geologist – Brisbane, Australia

Shane Stevens / Talent Search Team Manager, Origin

Email: Shane.stevens@originenergy.com.au Phone: +61 00 11 73858 0237

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.

Renewable Energy Mechanical/Systems Engineer, Idaho National 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

(updated 8/20/10)

Development Manager

Contact: Andrew Matkovic, Vice President, The Carmon Group Inc.

andrewmatkovic@carmongroup.com or (216) 539-7668

(updated 8/20/10)

Project Manager Geothermal Exploration, Europe

Contact: droberts@penderfinancial.com

Requests for Proposals**New This Week****Comments Sought on Senate CES White Paper (April 11)**

Senator Jeff Bingaman, D-New Mexico and Senator Lisa Murkowski, R-Alaska, Chairman and Ranking Member, respectively, of the US Senate Committee on Energy and Natural Resources released a white paper on questions and design elements of a Clean Energy Standard (CES). The purpose of the white paper is to solicit comments from parties interested and affected by a CES, with responses due by 5pm on Monday, April 11. Submittals must be e-mailed to Clean_Energy_Standard@energy.senate.gov no later than 5 p.m. (EST) on April 11th, 2011. For further instruction on submitting a response, see related documents [on the Committee web site](#).

Immediate Drilling Rig & Crew Availability (March–April 2011)

Rig 77 - 2007 Model 200,000 lb. capacity rig & crew. Depth capacity +/- 5000' + with 4 1/2" drill pipe; square set derrick, double drum table drive unit (18" flip up hydraulic table), & pipe handling system. Conventional drilling with (2) 600 HP Mud pumps (2008 with Tier 3 Engines). Approximately 15' Clearance KB. You can view pictures, footprint and rig inventory at: <http://www.barbourwell.com/rigs1.html>.

Contact for rates and scheduling:

Steve Zarcone, Director of Business Development, Barbour Well, Inc.

260 Sunpac Ave. Henderson, NV 89011, 805-207-6407

www.barbourwell.com

Proposal Announcements

Renewable Energy Certificates, U.S. Air Force and Federal Civilians (March 28)

Issuance of REC solicitation SP0600-R-11-0418 -- A Renewable Energy Certificates (REC) solicitation for U.S. Air Force and various Federal Civilian customers, with total contract quantity of 243,266,000 kWh. Proposals are due March 28, 2011.

Link to Defense Logistics Agency DLA-Energy's current REC solicitation;
https://www.fbo.gov/?s=opportunity&mode=form&id=feae20a86e2041a27bcd24b7b06d7897&tab=core&_cview=0

Questions:

Ashleigh N. Johnson, Contract Specialist, Energy Electricity/Renewables Branch, Ashleigh.Johnson@dla.mil

Chris Boeding, Christopher.Boeding@dla.mil

PH: 703-767-8561 FAX: 703-767-8757

Refurbished 27-MW Marine Turbine, Ram Power

This turbine, originally designed by Westinghouse for aircraft carrier service, has been completely refurbished for geothermal service. It has been re-rated to 27,350 kW at design inlet conditions of 469,875 lb/h 60 psig, 307F inlet conditions; 3.0" HgA exhaust. At a steam flow of 431,215 lb/h, it is expected that the turbine will produce 25,100 kW.

New engineering performed for this machine includes: New steam path engineering and all new manufacturing/performance drawings are available, including interstage and inner gland steam sealing manufacturing drawings, turbine clearance diagrams, rotor lifting diagrams, and new flow path performance curves at the anticipated steam flow rates.

Hardware includes: New 5 stage rotor, new diaphragms, generator and governor end gland steam packing sets, interstage packing sets, T1 and T2 axial aligning journal bearings, one high capacity active thrust bearing and one high capacity inactive thrust bearing, with directed lubrication and temperature sensors. The machine is set up for mounting five Bently Nevada XL-8mm proximity probes. Also included in the sale package are: turbine casing testing, final turbine assembly check, preparation and compilation of all material certifications, test reports and QA documents. The complete package (rotor, diaphragms, seals, and casings) can be prepared for ocean transport with appropriate preservation for short-term storage.

Turbine current delivery date is 3-4 months after a purchase agreement is established, ex-works Houston, TX, USA. Please contact info@ram-power.com for further information.

Alaska Fairbanks North Star Borough Offers \$1M Matched-Funds Grant

Alaska's Fairbanks North Star Borough is putting out a \$1 million grant through the Department of Energy for geothermal energy exploration for the proposal venture that can provide matching funds. Former Mayor Jim Whitaker initiated the request based on positive results of deep well testing 50 years ago. Luke Hopkins, Mayor of Fairbanks North Star Borough said researchers at the University of Alaska Fairbanks have shown interest. The goal is to find out whether the university's existing power plant could be replaced with a geothermal power plant.

See <http://www.azocleantech.com/details.asp?newsID=12786>, Fairbanks North Star Borough

<http://www.co.fairbanks.ak.us/>, PDF: <http://co.fairbanks.ak.us/Meetings/Ordinances/2010/2010-20-1o.pdf>

Partner Sought for Hot Oil and Gas Wells, Mississippi

Rich McAdoo (rlmcadoo@continentalenergy.com) is seeking local operators or parties with access to properties with hot oil or gas wells (shut-in or production) located in Mississippi. If you are looking for a financial and technical partner to develop coproduction of geothermal fluids with oil and gas in Mississippi, send him an email.

Events

GEA Events



Calendar of 2011 GEA and GEA-Sponsored Events

Look for more information on these upcoming events at <http://geo-energy.org/events.aspx>. For sponsorship and speaking opportunities, contact Kathy Kent at Kathy@geo-energy.org.

- May 4: GEA Geothermal Energy Showcase and International Forum, Washington, DC
- May 13–17: Climate Ride, with GEA's bicycle team the Geothermal Rock and Rollers, NYC to DC
- August 16–17: GEA National Geothermal Summit, Reno, NV
- October 23–26: GEA Geothermal Energy Expo® and GRC Annual Meeting 2011, San Diego, CA

Geothermal Energy Technology and International Development Forum, Washington, DC (May 4)

This event will be held Wednesday, May 4, 2011, at the Ronald Reagan Building and International Trade Center, Washington, DC, and is developed in conjunction with supporting agencies; U.S. Department of Energy and U.S. Department of Commerce. For more information, including the preliminary agenda and registration, visit:

http://www.geo-energy.org/events/May2011_ShowcaseForum.aspx.

GEA will be holding a one-day "Geothermal Energy Technology and International Development Forum" in Washington, DC on Wednesday, May 4, 2011 at the Ronald Reagan Building and International Trade Center. The program seeks to showcase geothermal projects, trends, and governmental policies in the U.S. and around the world. Topics covered will include; the geothermal market today, projects under development in the U.S. and

internationally, outlook for the future of the geothermal market , jobs and money, new technologies, and federal agency support at home and abroad.

There will also be a small exhibition area featuring leading companies in the geothermal energy industry.

This event has been developed in conjunction with the U.S. Department of Energy and the U.S. Department of Commerce and is open to the geothermal industry. The “Geothermal Energy Technology and International Development Forum” will be widely attended with over two-hundred industry leaders, foreign diplomats, financiers and government officials expected to participate.

Confirmed speakers to date include:

- **Allyson Anderson**, Professional Staff, Senate Committee on Energy and Natural Resources
- **Karl Gawell**, Executive Director, Geothermal Energy Association
- **Halley Dickey**, Director of Geothermal Business Development, TAS
- **Jonathan Weisgall**, VP, Legislative and Regulatory Affairs, MidAmerican Energy Holdings Co.
- **Josh Nordquist**, Project Manager, Ormat Technologies
- **Mark Taylor**, Lead Analyst, CCS and Geothermal, Bloomberg New Energy Finance
- **Mike Ronzello**, Geothermal Business Development Manager, Pratt & Whitney Power Systems
- **Dan Jennejohn**, Research Associate, Geothermal Energy Association
- **Craig Mataczynski**, CEO, Gradient Resources
- **Kevin Wallace**, Senior Project Manager and Renewables Market Manager, POWER Engineers
- **Bob Manasse**, Enel Green Power North America, Inc.
- **U.S. Department of Energy, Geothermal Technology Program**
- **Thomas Zich**, Emabond Solutions
- **Robert Hunt**, Linear Power
- **Jamie Merriman**, U.S. Trade and Development Agency
- **Doug Dougherty**, President, Geothermal Exchange Organization
- **Noam Ayali**, Partner, Chadbourne and Parke LLP

Wednesday, May 4, 2011

7:30 am Registration

9:00 am – 12:15 pm Morning Session

12:15 – 1:15 pm Luncheon

1:15 – 5:00 pm Afternoon Session

This event will be located at the Ronald Reagan Building and International Trade Center, Atrium Hall, 1300 Pennsylvania Ave., NW, Washington, DC, USA.

For more information, including the full agenda, visit: For more information, including the preliminary agenda and registration, visit: http://www.geo-energy.org/events/May2011_ShowcaseForum.aspx. 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 Team to Power Brita Climate Ride—Your Contributions Needed (May 13-17)

GEA has assembled a team to participate in the Brita Climate Ride from New York City to Washington, DC, May 13–17. The 5-day ride begins in Manhattan and passes through Princeton, Pennsylvania Amish Country, and Maryland horse country. The ride ends at the US Capitol where riders will have a chance to meet with Congressional representatives.

Climate Ride is a non-profit organization that puts on fully supported, charitable bike rides to support sustainable solutions and environmental causes. Participation in the event helps provide finances and awareness to renewable energy and environmental causes. You can join our team or contribute to help us reach the donation goal at: <http://climateride.donordrive.com/index.cfm?fuseaction=donorDrive.team&eventID=501&teamID=5027>

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

An Overview of Geothermal Energy, AAPG 2011 Annual Convention & Exhibition, Houston, Texas (April 10)

This year the Energy & Minerals Division of the American Association Petroleum Geologists will hold a Pre-Convention Short Course on geothermal energy at the AAPG 2011 Annual Convention & Exhibition. The course is focused on geothermal in the oil/gas producing states and the O&G industry in general. Date: Sunday, 10 April. Time: 8:00 a.m. –5:00 p.m. Fee: Professionals \$200, students \$100 (limited). Information and updates at: www.AAPG.org/Houston2011

CGEC Events Announced for Spring 2011

April 7, 2011: California Geothermal Energy Collaborative, Education and Outreach Workshop for the public, Davis, CA

May 26-27, 2011: California Geothermal Energy Collaborative Summit, Mammoth Lakes, CA

See <http://cgec.ucdavis.edu/>

Geothermal Reporter Training, ONRR, Reno NV (May 10-12, tentative)

ONRR (formerly MMS) is planning a Geothermal Reporter Training, possibly for Reno, later this spring.

Contact Leona Reilly, Minerals Revenue Analyst, Office of Natural Resource Revenue

303.231.3024 Fax 303.445.4245

leona.reilly@onrr.gov

National Geothermal Academy, University of Nevada, Reno (June 20 to August 12)

This summer the [National Geothermal Academy will hold its inaugural summer session at the University of Nevada, Reno](#). Forty students will be involved in an 8-week geothermal energy education program. Cornell University, Stanford University, Southern Methodist University, West Virginia University, the Oregon Institute of Technology, the University of Utah and Dartmouth will all participate. The Department of Energy awarded UNR a \$995,000 grant for the academy. "Indonesia, New Zealand and Iceland have held similar academies, but this academy is the first in our country," Wendy Calvin, coordinator of the academy and director of the University of Nevada Great Basin Center for Geothermal Energy, said in a statement. "Nevada has great local resources for the academy. The consortium selected our school because of its proximity to drilling sites, power plants and heat sources, as well as for its leadership in multidisciplinary research that has led to discovering new technologies for exploration, production and development of geothermal resources." For more information go to <http://www.unr.edu/geothermal/NGA.htm>

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

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

CanGEA Events (September and November)

September 14th, 2011 - Toronto, ON, Geothermal Investment Forum and Networking Event

November 9th, 2011 – Calgary, AB, Geothermal Power Forum and Networking Event

GEOHERMAL ENERGY WEEKLY

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

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