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

## **National News**

### **Legislation to Extend 30% ITC to Geothermal Through 2016 Introduced**

This week in the House, Representatives Dave Reichert (R-WA) and Earl Blumenauer (D-OR) introduced a bill to extend the 30% ITC for geothermal through 2016. The bill (#H.R. 2408) amends the Internal Revenue Code of 1986 and puts the tax credit for geothermal on the same terms as that of solar. Extension of this ITC is a geothermal industry priority.

In the midst of Congress consideration of reforms to federal tax programs, representatives of six trade associations, including GEA, sent a letter this week to Chairmen Baucus and Camp and Ranking Members Hatch and Levin. The letter emphasizes the critical role of tax policy in public awareness and in reaching the benefits of renewable energy production in the U.S.:

*Dear Chairmen Baucus and Camp and Ranking Members Hatch and Levin:*

*As the Congress considers reform of federal tax programs, we are writing to underscore the critical role tax policy plays in helping our nation recognize the economic, energy security and environmental benefits associated with expanded domestic renewable electricity production.*

*As such, our organizations today strongly call on the Congress to continue the federal commitment to tax incentives for the renewable sector.*

*Experience both domestically and worldwide demonstrates that tax incentives can be effective, efficient tools to achieve larger policy goals and objectives. This is certainly the case as it pertains to*

*tax preferences designed to encourage investment in, and production of, renewable electricity.*

*Renewable electricity tax incentives have spurred technological innovation; enhanced the viability and deployment of a variety of renewable electricity sources; and reduced costs for consumers. This is in the best interest of the taxpayers and is wholly consistent with a well-reasoned national energy strategy that enhances America's competitiveness in the global marketplace for energy technology.*

*We urge you to factor the significant policy benefits associated with renewable electricity tax incentives, as the Congress considers reform of the nation's tax code. We look forward to constructively working with you on these issues of importance to America's renewable electricity producers.*



*Sincerely,  
Bob Cleaves, President and CEO  
Biomass Power Association*

*Karl Gawell, Executive Director  
Geothermal Energy Association*

*Linda Church Ciocci, Executive Director  
National Hydropower Association*

*Rhone Resch, President and CEO  
Solar Energy Industry Association*

*VADM Dennis V. McGinn (Ret.), President  
American Council on Renewable Energy*

*Lisa Jacobson, President  
Business Council for Sustainable Energy*

## **Interior and Environment, Energy and Water Appropriations Bills Move Forward**

This week Interior, Environment, and Related Agencies met for the subcommittee markup of the FY 2012 Interior and Environment Appropriations Bill. The bill includes funding for the Department of the Interior, the Environment Protection Agency (EPA), and the Forest Service, and has been in the past a vehicle for royalty writers. The bill includes \$27.5 billion in spending. This reflects a reduction of \$2.1 billion below last year's level and \$3.8 billion below the President's request. It includes a total cut to climate change programs of \$83 million and decreases land acquisition funding by \$239 million.

Also this week, the FY 2012 Energy and Water Appropriations Bill for 2012 was passed by the full House. The bill outlines annual funding of \$30.6 billion for energy and water appropriations in 2012, and cuts funding for the Department of Energy about \$6 billion from the Administration's request for FY 2012, a 3% cut from FY 2011 funding. The Department of Energy Geothermal Technologies Program is recommended \$38 million and is directed to "continue advancing technologies that can exploit this vast resource through continued research and development in the Low Temperature and Co-Produced Resources Program."

Information on these bills is available at the House appropriations Web site, <http://appropriations.house.gov/>.

## **GEA Applauds Senators' Support of Geothermal Energy**

On July 5, the Geothermal Energy Association sent a letter to Senator John Tester in support of S. 1142, the Geothermal Exploration and Technology Act of 2011, which proposes a new federal loan program to promote exploratory geothermal drilling and promote mapping and development of untapped geothermal potential.

The Senate Energy and Natural Resources Committee has scheduled a hearing on this legislation for July 12. Witnesses include Steve Chalk, deputy assistant secretary of the office of energy efficiency and renewable energy, U.S. Department of Energy; and Douglas Dougherty, president and chief executive officer, the



Geothermal Exchange Organization, Springfield, IL. Hearings are webcast live at:

<http://energy.senate.gov/public/>.

The text of the letter follows:

*Dear Senator Tester,*

*Thank you for introducing S 1142, the Geothermal Exploration and Technology Act of 2011 along with Senators Reid and Murkowski. This is important legislation for the future of geothermal energy.*

*Geothermal electrical generation is base load renewable power that uses the heat of the earth to create electricity. The U.S. Geological Survey has estimated that the geothermal industry has the potential to produce as much as 89,000 Megawatts of electricity in the United State using readily available conventional geothermal technology. This represents nearly a 30-fold increase from today's geothermal generation levels. But this tremendous potential for additional clean, baseload renewable energy is not being realized because today's economics do not support exploratory geothermal drilling to discover and unlock the potential of new geothermal areas. Exploratory drilling includes drilling to identify, prove and develop an untapped geothermal resource in order to construct a geothermal generation facility.*

*Geothermal exploration is simply too risky for conventional financing sources. A geothermal exploratory well typically costs \$5 to \$8 million to drill, and may not be usable if it does not encounter proper conditions. There are no sources of debt capital available for this type of exploratory drilling;*

*therefore this drilling has to be done with limited equity capital. Even once a resource has been identified, it is not unusual for development wells to prove unproductive.*

*Senate bill S. 1142 proposes a new federal loan program to promote exploratory geothermal drilling and promote mapping and development of the nation's substantial untapped geothermal potential. GEA is strongly supportive of S. 1142, and applauds the sponsors for taking the initiative to introduce this legislation. The economic obstacles to geothermal exploration are substantial and an effective program to promote exploratory drilling is critical to the long-term growth of geothermal energy in the United States. A successful national geothermal exploration initiative could unlock tens of thousands of megawatts of undeveloped power potential.*

*Again, thank you for introducing S 1142, and we look forward to it receiving further consideration by Congress.*

*Sincerely,  
Karl Gawell  
Executive Director*



## **Reno Mayor Bob Cashell to Kick Off First-Ever GEA National Geothermal Summit**

[Press Release](#) — Reno, Nev. (July 6, 2011) — From Aug. 16-17, the GEA National Geothermal Summit will convene industry and government leaders in one of the world's most important geothermal business centers, Reno, Nev. The event will feature a welcome address from the Honorable Bob Cashell, Mayor of Reno. Summit attendees will discuss key opportunities for the geothermal energy industry, as well as challenges to its success and growth.

"The City of Reno is proud to have 100 megawatts of geothermal power, enough to supply the entire residential load, permitted and being produced within the city limits. We are excited that experts from around the country and world are coming to Reno to learn more about geothermal development," Mayor Cashell said.

Paul Thomsen, GEA Board President and Director for Ormat Technologies, Inc., headquartered in Reno, Nev., remarked, "Geothermal energy provides clean, domestic, base-load electricity to Nevada and the nation. In order to unleash the vast geothermal potential, we must streamline the permitting process. GEA's estimated 144 projects in development will require \$26 billion in capital, if they can get through the permitting process to construction. This national summit will address these pressing issues."

Reno is home to a significant portion of GEA members, making the "Biggest Little City in the World" one of the most important geothermal business communities in United States. There are currently 21 operating geothermal power plants in Nevada with a total operating capacity of 441.8 MW. With more developing projects than any other state, it is expected that Nevada's geothermal generating capacity will increase significantly in the future. The total installed capacity of the United States is approximately 3,102 MW, enough to power over 2 million homes -- or the residential populations of San Francisco, Portland and Seattle combined. Currently, geothermal electric power generation occurs in nine U.S. states including Nevada, Alaska, California, Hawaii, Idaho, New Mexico, Oregon, Utah and Wyoming.

The National Geothermal Academy is also based in Reno and opened in June 2011. The consortium of geothermal schools including the University of Nevada, MIT, Cornell, Stanford, Oregon Institute of Technology and University of Utah, is the first geothermal energy training program of its kind in the nation.

Topics for the Summit include outlooks for Washington D.C. and the western states; building new transmission projects in the west; new renewable energy policy developments in California; and, moving geothermal forward on public lands. An Expo Hall will feature government agencies, universities and leading geothermal developers from the growing geothermal industry. GEA's first annual GEA Honors Awards will also be presented at the Summit. The GEA National Geothermal Summit has been made possible by Gold Level Sponsors Ormat and Stoel Rives, LLP, and co-sponsors the City of Reno and Western Area Power Administration.

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## **Company News**

### **Geothermal Resource Group: Three New Managers Promoted**

Press Release, Palm Desert, California- July 05, 2011 –Geothermal Resource Group (“GRG”) announced today that, as it heads into the second half of the year, it has appointed several new managerial positions. All three new posts were promotions from within the ranks at GRG, and became effective July 1, 2011.

Abraham “Sam” Samuel was named Operations Manager, bringing with him administrative leadership as well as a proven track record of successful geothermal projects spanning four continents. Alan Bailey, who has more than 20 years of industry experience and is currently supervising the Hudson Ranch Drilling Project in California’s Imperial Valley, was appointed Manager of Engineering. With 30 years of geothermal experience in the Philippines, Indonesia and in the US; Benny Alarcon was selected as Manager of Field Operations for GRG. “Business has been on a steady upswing since 2005. The growing workload has expanded to the point that in order to sustain growth and quality of our services, a more formal management structure is needed”, noted GRG President Bill Rickard, PE. He added “this reorganization, which is effective immediately, also gives me the opportunity to publicly recognize the expertise and dedication of my senior staff.”

### **Ormat Technologies: Bronickis in Talks to Sell Ormat Stake**

Ormat Industries Ltd., led by the Bronicki family, are [in talks to sell stake](#) to Shikun u'Binui Holdings Ltd., controlled by Shari Arison. "The sides have not reached agreement about the terms of the deal and there is no certainty that negotiations will continue between them or that a deal will be signed," Ormat reported to Tel Aviv Stock Exchange. "Ormat combines excellently with Shikun U'Binui's portfolio. They can create good synergy in their overseas activities," according to IBI Investment House analyst Shay Lipman.



## **U.S. Geothermal: Company Announces Completion of Well RRG-7 Repair at Raft River Project**

Press Release, BOISE, Idaho, July 6, 2011 (NYSE Amex: HTM, TSX: GTH) U.S. Geothermal Inc., a renewable energy development company focused on the production and sale of electricity from geothermal energy, announced today that it has successfully completed the repair of production well RRG-7 at the Raft River geothermal power project in southeast Idaho. The repair work was completed by U.S. Geothermal Services Inc, a wholly owned subsidiary, according to plan and budget. Previously well RRG-7 experienced a leak between two overlapping casing strings that allowed cooler geothermal fluid to flow into the well. The repair involved removing the production pump and then completing a "squeeze" job whereby grout was injected into the leaking lap joint.

After the squeeze job successfully sealed off the leak, the overhauled production pump was installed and production well RRG-7 was placed back into service on July 2nd. The well is currently producing 1,300 gallons per minute of 297°F fluid. The repair program also includes restoring production at well RRG-2 and those repairs are underway and ongoing.

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## **Renewable Energy and Climate Change**

### **Geothermal Instrumental to Global Energy Future**

"Geothermal Deserves a Starring Role in a Renewable Energy Future," according to [an emagazine.com headline](#). The article goes on to explain that more can be done by governments around the world to boost geothermal development, quoting Karl Gawell, GEA Executive Director — "Geothermal is often not recognized by policies around the world." The new International Geothermal Business Coalition, formed by trade associations in the U.S., Europe, Canada, Chile, and Australia aim to help governments recognize the importance of geothermal in energy planning — that it is "instrumental in constructing long-term energy scenarios for 2050," as Philippe Dumas, manager of the European Geothermal Energy Council put it.

### **Geothermal Investment Opinions Examined**

Opinions on geothermal investment abound. An [article on mindfulmoney.co.uk conveys](#) that geothermal is well established, and that stock buyers should consider options. One comparison: "The situation we are facing at the dawn of the 21st century is comparable to other turning points in energy generation. Just imagine what would have happened 250 years ago if people had brushed aside the suggestion that they should invest in coal and steel, steam engines, power looms and, later on, railways." The article lists Calpine, Chevron, General Electric, Tata Corp., and Ormat Technologies as companies with geothermal stocks to consider. The article also mentions ground source heat pumps as another geothermal resource to consider.



[Citizeneconomists.com relayed an Energy Report interview](#) with Marin Katusa, Chief Investment Strategist for the Energy Division of Casey Research, whose portfolio includes geothermal stocks. “The geothermals have taken a significant hit back, even though the current PPAs (power purchase agreements) provide significant profits,” according to Katusa, who considers stocks in Ormat Technologies, Alterra Power Corp., Ram Power, and Nevada Geothermal Power. “All of these companies are doing the right things now, except the market is not reflecting it because no one really cares about it . . . when it does get attention these stocks are going to trade up multiples from where they are today.”

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## **State News**

### **Arizona: GEA Presents Latest Data on Western States Geothermal Energy Potential at U.S. Air Force Renewable Energy Summit**

*By John McCaull ~ GEA Western States Representative* — The [Assistant Secretary of the Air Force for Energy](#), coordinated a [USAF Renewable Energy Symposium](#) on June 28 and 29, 2011 in Tucson, AZ. The event provided enlisted and civilian Air Force personnel and contractors with a broad overview of the entire Air Force facility energy program. The summit also focused many of the presentations on the challenge of increasing renewable power use for facilities and installations. John McCaull, Western States Representative for the Geothermal Energy Association (GEA), closed out the symposium with a presentation of GEA’s latest industry data on geothermal power development trends and opportunities.

Under the leadership of the [Deputy Secretary of Defense for Installations and Environment](#), the Department of Defense (DoD) manages installations covering over 28 million acres, with 539,000 buildings and structures valued at more than \$800 billion. In 2002, Congress funded an assessment of the renewable energy potential of U.S. military installations.

DoD created a Renewable Energy Assessment Team to explore solar, wind and geothermal energy resources at military installations. Led by the U.S. Air Force, the team conducted on-site assessments at military bases in the Continental United States. The completed reports summarize the wind, solar, and geothermal resources identified at installations and surrounding regions (within ~100 miles).

Additionally, the team made recommendations on how to economically purchase renewable energy and encourage the growth of on-site energy development at select military bases. They have reviewed established and new technologies for collecting, storing, and transmitting renewable power. Of interest to the geothermal community is the 2007 DoD Report to Congress, “[Ground Source Heat Pumps in the Department of Defense](#).”



GEA has been working closely with DoD, the U.S. Navy, and the Air Force, and will continue to provide our country's military land managers with the latest and best information on geothermal resources. It was clear from the Symposium that the Air Force was interested in the full range of geothermal applications beyond power plants. Direct use, heat exchange, and small power units generated the most discussion from the audience.

DoD and the Air Force have a new 2-year procurement target for renewable energy through Power Purchase Agreements and Enhanced Use Lease arrangements. For more information on these topics, you can see the presentations and agenda at the Symposium website: <http://www.event-plans.com/AF/agenda.asp>.

### **California: CEC Awards \$5.5 Million in Geothermal Grants**

The California Energy Commission awarded a total [\\$5.5 million to four geothermal projects](#), to be matched by \$7.9 million in private funding. Geothermal currently provides over 6% of in-state electricity production.

The geothermal funding was awarded to: Layman Energy Associate (\$2.4 million) for exploratory activities near The Geysers; Renovitas, L.L.C. (\$1.5 million) for a 50-MW power plant at Wilbur Hot Springs; Simbol, Inc. (\$949,545) for a pilot potassium extraction project using Salton Sea geothermal brines; and Imageair, Inc. (\$672,234) to develop a satellite-based detection technique for surveying geothermal lands in the Imperial Valley.

More on the California Energy Coalition's geothermal program, including the Geothermal Resources Development Account Program which covered these grants, can be found at <http://www.energy.ca.gov/geothermal/index.html>.

### **Hawaii: State Legislature Discusses Native-to-Native Geothermal Business Model**

The Hawaii State Legislature held a joint informational briefing on July 7 regarding a [proposed Native-to-Native business model for the state's geothermal](#) sector. In the state Senate, sponsors include the Committees on Energy and Environment; Water, Land and Housing; and Hawaiian Affairs; in the House of Representatives, the Committees of Energy and Environmental Protection; Water, Land and Ocean Resources; and Hawaiian Affairs.

Chair of the Senate Committee on Energy and Environment Sen. Mike Gabbard and chair of the House Committee on Energy and Environmental Protection Rep. Denny Coffman led the discussion, which included presentations from the Innovations Development Group, Mililani Trask of the Indigenous Consultants and the chairs of the Hawaii Geothermal Working Group.



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## **International News**

### **Americas**

#### **Argentina: EIA Completed on Copahue Geothermal Project**

Earth Heat Resources has [completed a stage 1 Environmental Impact Assessment \(EIA\) for the Copahue geothermal](#) project. The company is now awaiting the Concept Study stage 1 final report. The reported generating capacity at the Copahue project was increased 150% in May, under the Canadian Geothermal Code classified resource estimate. Earth Heat has begun phase-one feasibility studies for fast-track development of a 15-MW geothermal power plant.

#### **Canada: Geological Survey Provides New Report on Geothermal Energy Resource Potential**

In June, scientists led by the Geological Survey of Canada released a report on the geothermal energy resource potential of Canada. Alexander Richter, Director of the Canadian Geothermal Energy Association noted that the report confirms CanGEA's assessment — "geothermal energy, as a renewable energy source, not only provides a clean and renewable option for electricity generation around the clock, but also efficient and competitive heating options for Canadians all over Canada," he said in a statement.

The report indicates there is only sufficient data to characterize the geothermal potential on 40% of Canada's land. It indicates the geothermal power potential exceeds one million times Canada's current electrical consumption, with remote northern communities potentially the first that will benefit from development.

The report refers to research on decreasing installation costs. It finds the environmental impacts of geothermal development relatively minor in comparison to other energy developments, and adds that Canada has great potential for EGS development.

#### **Colombia: GEF Offers Grant for Geothermal Plant**

Washington-based Global Environment Facility has offered a [\\$2.7 million grant to Colombia](#) to assess the geothermal potential at Macizo Volcanico del Ruiz, which could be the location of the country's first geothermal power plant. Inter-American Development Bank will administer the grant.



## Europe

### Scotland: RE Routemap Outlines 2020 Target of 30% Renewables

Scotland has announced [plans for a renewable energy Routemap](#), which sets out “key actions needed to seize the opportunity for Scotland to research and develop, design, construct and service the technologies that will power the 21st century,” said Energy Minister Fergus Ewing in a statement. “[It] outlines new goals of achieving 30% of overall energy demand from renewables by 2020, and 500 MW community and locally-owned renewable energy by 2020.” The plan includes a Green Equity Fund to support community projects. Mitsubishi Power Systems, Gamesa, and Dossan Babcock have shown interest, and implementation could mean the creation of over 40,000 jobs, according to the Scottish government.

### Turkey: Country’s Largest Geothermal Power Station Underway

Zorlu Dogal Elektrik plans to construct the [country’s largest geothermal power station](#) in Denizli province, with 60 MW of electrical power and 50 MW of thermal power capacity. Sumitomo Corp. and Fuji Electric have won the tender to build the station. “We have made an important step toward Turkey’s largest geothermal power station, which we aim to finish in 2013,” said Zorlu general director Arif Özozan in a statement. A 650 tons-per-hour steam turbine will be delivered to the station from Japan this month.

## Pacific

### Japan: Russia to Upgrade Kuril Island Geothermal Plant and Military Base

The Mendeleev [geothermal power plant will receive an increase in capacity](#), according to Russia’s Ministry of Regional Development. The expansion is part of a \$43 million effort Russia will put toward civilian and military infrastructure in the Kuril Islands this year. The plant is located on the island of Kunashir, which is claimed as a territory of Japan. Russia obtained control of the island chain in World War II and in February 2010 stated the islands were part of Russia.

### New Zealand: Work on New 82-MW Geothermal Plant to Begin

Mighty River Power plans to build a [\\$466 million geothermal plant at the Ngatamariki steam field](#) north of Taupo. Construction is expected to begin next month and to be ready for operation by mid-2013, with an initial 82-MW output. Project funding will include the company’s recently secured \$250 million in additional debt facilities. The company has invested over \$1 billion in geothermal generation in the past five years.

### Vanuatu: Kuth Energy Plans Geothermal Plant for 2014

Kuth Energy has completed preliminary work for a [geothermal power plant near Takara Village](#). Plans are to



have the plant operation by July 2014.

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## **Geothermal Heat Pumps and Direct Use**

### **Fox Business Suggests Installing Geothermal Systems at Home**

A Fox Business article outlines "[Ten Midyear Tax Moves to Make Now](#)," including making home energy improvements, such as installing solar energy, wind power or geothermal systems. "These upgrades could qualify for a tax credit equal to 30% of the cost, including installation, without any cap on the credit amount," the article states.

### **Geothermal Heat Pump Ads Feature NASCAR's Jeff Gordon**

A new [geothermal heat pump advertising](#) campaign features NASCAR's Jeff Gordon. The ads will run in television ads, as well as print version in Time, Newsweek and The Week. Gordon installed a geothermal heat pump in his North Carolina home. "In the past, a campaign of this type was rare in the geothermal industry," according to Tim Litton, director of marketing of WaterFurnace, the geothermal heat pump manufacturer running the ads.



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

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## **Notices**

### **Closing This Week**

#### **FOA: Geothermal Technology Advancement for Rapid Development of Resources in the U.S. (July 15)**

The U.S. Department of Energy Geothermal Technology Program's webinar on the Funding Opportunity Announcement (FOA) entitled "Geothermal Technology Advancement for Rapid Development of Resources in the U.S." is now online. To view the webinar, visit:

[http://www1.eere.energy.gov/geothermal/news\\_detail.html?news\\_id=17486](http://www1.eere.energy.gov/geothermal/news_detail.html?news_id=17486).

Under this FOA, DOE is requesting applications that address key cost, technical, and risk barriers and advance geothermal energy development, working toward the Program goal of accelerating the development and use of geothermal energy. Please note: This Funding Opportunity Announcement closes on July 15, 2011



There are six topic areas to which an application may be submitted under this FOA: Advanced Exploratory Drilling Technologies, Topic 2: Advanced Well Completion Technologies, Topic 3: Zonal Isolation, Topic 4: Observation Tools and Data Collection System for Reservoir Stimulation, Topic 5: Geophysical Exploration Technologies, and Topic 6: Geochemistry/Rock-Fluid Interactions.

FOA documents and other details are available at: <https://eere-exchange.energy.gov/#b9217c25-1d81-42eb-a213-90079cd67d45>.

Contact Information: [FOA522@go.doe.gov](mailto:FOA522@go.doe.gov); [EERE-ExchangeSupport@hq.doe.gov](mailto:EERE-ExchangeSupport@hq.doe.gov). All questions must be submitted at least 3 days prior to the submission deadline of 7/15/2011.

Frequently Asked Questions (FAQs): <https://eere-exchange.energy.gov/FAQ.aspx?Foald=d7fc28a9-cd94-4548-b0ea-4713432c90fd>. Submission Deadlines: Full Application Submission Deadline 7/15/2011 11:59 PM ET

## Current Notices

### DOE Seeks EGS Experts for Roadmap Workshop (July 2011)

Enhanced Geothermal Systems (EGS) are engineered or enhanced reservoirs created to produce energy from geothermal resources that are otherwise not economical due to a lack of fluid and/or permeability. EGS technology can enhance existing geothermal systems and create new systems where appropriate thermal and geologic characteristics occur. EGS has the potential for accessing the Earth's vast resources of heat located at depth; the United States' potential is estimated at 16,000 GWe by the National Renewable Energy Lab (NREL). In an effort to facilitate development of and overcome the challenges associated with EGS so this vast resource can be developed, the Geothermal Technologies Program (the Program) would like to invite EGS subject matter experts to take part in the upcoming EGS Roadmap Workshop. Input from a diverse group of experts is paramount to develop a robust roadmap and a suitable path forward for the EGS program. The workshop will take place July 2011 in Reno, NV or the Bay Area. To be considered for participation, please submit the following information by e-mail to [EGS@ee.doe.gov](mailto:EGS@ee.doe.gov):

- Name and contact information;
- Your reason for participation **and** expected contributions to the Workshop; and
- An attached biography and CV



The qualifications of each applicant will be reviewed by program staff, who will contact selected individuals directly. Individuals not selected will have the opportunity to provide input during the public comment period. The draft document is expected to be available in September 2011. The Program will announce the release of the draft EGS Roadmap on its [home page](#) and by e-mail to the Geothermal Workshops and Webcasts distribution list. If you are not already part of the distribution list, please consider [subscribing](#).

Please send any questions you may have to the EGS mailbox, [EGS@ee.doe.gov](mailto:EGS@ee.doe.gov).

### **BLM Seeks Input from Geothermal Industry for Upcoming Bonding Workshop**

There will be a geothermal bonding workshop at the BLM Nevada State Office to discuss potential changes to the bonding requirements (agenda will follow soon) on August 23rd (8 am- 4:30 pm) and 24th (8 am-12 pm). As part of that, BLM is requesting estimates from industry for plugging (cost per foot) and reclamation (dirt work and reseeded). Please send any estimates you may have to Sheila Mallory ([sheila\\_mallory@blm.gov](mailto:sheila_mallory@blm.gov)) have by July 6, 2011.

Also, the BLM Nevada State Office will be holding a geothermal unit training for industry on August 24th (1 pm - 4:30 pm) and 25th (8 am-4:30, dependent upon questions). Because this training is specifically for industry, please provide Sheila Mallory ([sheila\\_mallory@blm.gov](mailto:sheila_mallory@blm.gov)) a list of specific geothermal unit topics (or issues) that you would like to see covered by June 30th, 2011.

And finally, if you are interested in attending either the bonding workshop and/or unit training, please be sure to specify which event(s) you will be attending. Please let Sheila Mallory know by July 8th, 2011.

### **Induced Seismicity Protocol for Public Comment**

From the Department of Energy — U.S. Department of Energy Geothermal Technologies Program (GTP) introduces a new Induced Seismicity Protocol for public comment. The public comment period will last for 30 days. Public comment form available at:

[http://www1.eere.energy.gov/geothermal/news\\_detail.html?news\\_id=17461](http://www1.eere.energy.gov/geothermal/news_detail.html?news_id=17461)

### **Nominating Committee Announced for GEA Board Elections**

The GEA Board has approved a nominating committee to coordinate the nominations for elected seats on the GEA Board. Elections will take place in August at the National Geothermal Summit. If you are a GEA member and have a nomination for consideration, please contact: Doug Glaspey, US Geothermal, [dglaspey@usgeothermal.com](mailto:dglaspey@usgeothermal.com); Halley Dickey, TAS, [hdickey@tas.com](mailto:hdickey@tas.com); Mike Rogers, Calpine Corporation, [mrogers@calpine.com](mailto:mrogers@calpine.com); or Karl Gawell, GEA, [karl@geo-energy.org](mailto:karl@geo-energy.org).



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## **Employment**

### **Employment Opportunities**

#### **Research Geologist/Geophysicist, United States Geological Survey**

The USGS in Menlo Park, California, has an opening for a Research Geologist/Geophysicist to conduct research in support of geothermal energy assessments, with a focus on the structural, geomechanical, thermal, and hydrologic properties of fault-hosted hydrothermal systems. Detailed information on the position can be found at <http://tinyurl.com/USGSGeothermalJob>. Individuals must apply online at <http://www.usajobs.gov/> to receive consideration. For more information about the USGS, visit: <http://www.usgs.gov/ohr/great.html>.

#### **Tenure-line Position, Energy Resources Engineering, Stanford University**

The Department of Energy Resources Engineering at Stanford University [invites applications for a tenure-line faculty appointment](#). The position is at the assistant professor level. It is desired that the selected candidate be able to start by January 2012.

The Department of Energy Resources Engineering focuses on a wide range of activities related to the recovery of the Earth's energy resources (e.g., hydrocarbons, geothermal, and renewables). The Department also has active research programs on carbon sequestration and clean energy conversions. ERE offers degrees in both energy resources engineering (B.S., M.S., Ph.D.) and petroleum engineering (M.S., Ph.D.). The ideal candidate should have research and teaching interests beyond traditional petroleum engineering disciplines.

We seek scholars with a Ph.D. in a relevant field with novel and innovative research interests in energy resources, such as in one or more of the following areas:

1. Energy systems modeling and optimization, for example integration of energy recovery and carbon sequestration
2. Engineering of enhanced geothermal systems
3. Recovery of unconventional energy resources, such as coalbed gas, shale gas or gas hydrates
4. Renewable energy resources

Please apply online at <https://academicjobsonline.org/ajo/jobs/685/> in electronic format (pdf only) with the following application material:

- cover letter
- curriculum vitae
- a statement outlining research and teaching interests
- the names of three references including e-mail addresses



- copies of up to five selected papers published in refereed journals over the past three years

We will begin reviewing applications on April 15, 2011 and will continue until a suitable candidate is identified.

### **Reservoir Engineering Manager – Geothermal, Chevron, Jakarta, Indonesia**

Chevron Asia Pacific Exploration and Production is accepting online applications for the position of Reservoir Engineering Manager located in Jakarta, Indonesia. To learn more about this exciting position and to apply visit [www.chevron.apply2jobs.com](http://www.chevron.apply2jobs.com) and search by requisition 081116435. All applicants must apply via the Chevron online application process.

### **Consultant, 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>

### **NREL Seeking Applicants for Geothermal Analysis Group**

NREL seeking applicants with geothermal or related technical backgrounds that have strong analytical skills and good writing/communication skills. Apply for the positions online at [http://www.nrel.gov/employment/job\\_openings.html](http://www.nrel.gov/employment/job_openings.html).

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## **Requests for Proposals**

### **New This Week**

#### **Call for Research Experiences for Undergraduates (REU) Site Proposals, NSF (August 24)**

Currently, the National Science Foundation (NSF) has an open call for Research Experiences for Undergraduates (REU) Site proposals. The Geothermal Technologies Program (GTP) and NSF REU program are collaborating on this program as a means to expand undergraduate research opportunities in the area of geothermal energy. The goal is to introduce more undergraduate students to renewable energy research and the many opportunities in science and engineering related to geothermal energy.

About REU: The Research Experiences for Undergraduates (REU) program supports active research participation by undergraduate students in any of the areas of research funded by the National Science Foundation. REU projects involve students in meaningful ways in ongoing research programs or in research projects specifically designed for the REU program.



This solicitation supports of student research through REU Sites. These sites are based on independent proposals to initiate and conduct projects that engage a number of students in research. REU Sites may be based in a single discipline or academic department, or on interdisciplinary or multi-department research opportunities with a coherent intellectual theme. Proposals with an international dimension are welcome.

The deadline for REU Site proposals is August 24, 2011. For further details and how to apply, please visit: [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5517&from=fund](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5517&from=fund). If you have any questions, please contact the REU program manager, Esther Bolding at [ebolding@nsf.gov](mailto:ebolding@nsf.gov) or (703)292-5342.

## Proposal Announcements

### San Diego Gas & Electric Solicitation for Renewables (July 11)

In order to expand its renewable energy portfolio San Diego Gas & Electric (SDG&E) is seeking project proposals from renewable energy developers. SDG&E is seeking proposals including a power purchase agreement of up to 30 years, with deliveries beginning between 2011 and 2015. SDG&E is especially interested in proposals that can help it meet near term renewable power needs in 2011, 2012, and 2013. Bidders conferences will be held by SDG&E on June 2 and June 8. The deadline to submit questions is July 1. The closing date is July 11.

For more information on SDG&E's RFO go to:

<http://www.sdge.com/documents/rfo/renewable2011/2011RFODocument.pdf>

### Renewable Energy Certificates, Various Civilian Agencies (July 18)

Synopsis: (Jun 07, 2011 12:27 pm) — Renewable Energy Certificates, for ultimate transfer to various Federal Civilian customers. Contract(s) are anticipated to be one time deliveries starting on September 1, 2011. Total contract quantity is 573,302,000 kWh. This is a combined synopsis/solicitation for commercial items prepared in accordance with the format in Subpart 12.6, as supplemented with additional information; proposals are being requested and a written solicitation will not be issued. This announcement and the document, which can be accessed via FedBizOpps ([www.fbo.gov](http://www.fbo.gov)), constitute the only solicitation. The solicitation is issued as a Request For Proposal (RFP) and has incorporated provisions and clauses as in effect through Federal Acquisition Circular (FAC) 2005-29. Additional requirements may be added by Amendment. All responsible sources may submit a proposal, which shall be considered.

Files available at

[https://www.fbo.gov/index?s=opportunity&mode=form&id=659cfa3af75d35d7676a546fca24c813&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=659cfa3af75d35d7676a546fca24c813&tab=core&_cview=0). If you are unable to access the solicitation via the Internet, please contact DLA Energy-AE for a printed copy.



**Points of Contact:**

Bryan Simmons, 703-767-8531, [Bryan.Simmons@dla.mil](mailto:Bryan.Simmons@dla.mil)

Chris Boeding, 703-767-9651, [Christopher.Boeding@dla.mil](mailto:Christopher.Boeding@dla.mil)

Cynthia Ralph, 703-767-8566, [Cynthia.ralph@dla.mil](mailto:Cynthia.ralph@dla.mil)

For all Small Business issues, please call Joan Turrisi at (703) 767-9465 or [Joan.Turrisi@dla.mil](mailto:Joan.Turrisi@dla.mil).

**2011 Round of New Markets Tax Credit Program Allocations (July 27)**

On Tuesday, May 31, 2011, the U.S. Department of the Treasury's Community Development Financial Institutions Fund (CDFI) announced the opening of the 2011 round of competition for \$3.5 billion in New Markets Tax Credit Program allocations. The application materials and related information are available at the [New Markets Tax Credit Program page](#) of the CDFI Fund website: [www.cdfifund.gov](http://www.cdfifund.gov).

Established in 2001, The New Markets Tax Credit Program stimulates investment of private sector capital into distressed communities by providing a tax credit to corporate or individual taxpayers who make qualified equity investments in designated Community Development Entities (CDEs). The CDEs then invest the capital raised into projects and businesses in low-income communities. Since the inception of the NMTC Program, the CDFI Fund has made 594 awards totaling \$29.5 billion in tax credit allocation authority to CDEs.

**Important Program Deadlines**

- NMTC Program Application: July 27, 2011
- Prior Allocatees' Issuance of Qualified Equity Investments: October 14, 2011

Note: CDE Certification application materials and resources are available on the CDFI Fund's [CDE Certification web page](#).

If you have any questions on the 2011 application process, need assistance in completing your 2011 application or CDE certification, or want additional information on the New Markets Tax Credit Program, please contact Gary Perlow, Director, New Markets Tax Credit Practice, at [gary.perlow@reznickgroup.com](mailto:gary.perlow@reznickgroup.com).

**Tender for 3 Geothermal Permits, British Columbia, Canada (July 26)**

Crown Geothermal Resources will hold a "Competition for the Right to Explore and Develop Crown Geothermal Resources" on July 26, 2011, for three geothermal permit areas in the region of Squamish-Lilloet with First Nations interest by the Lil'Wat First Nation. Bids must be addressed to the Minister of Energy and Mines and mailed or delivered to the office of the Executive Director, Titles Branch, Titles and Corporate Relations Division, 6th floor, 1810 Blanshard Street, PO Box 9326 Stn Prov Govt, Victoria BC V8W 9N3. They must be received before 12:00 noon Pacific Daylight Time, Tuesday, July 26, 2011, for the privilege of obtaining geothermal rights, as detailed below and depicted on the attached map. Accepted bids will be announced the following day.



Bidding procedures and conditions are defined in Information Letter TITLES-10-01 available from the Titles and Corporate Relations Division, 6th floor, 1810 Blanshard Street, Victoria, BC V8W 9N3, telephone (250) 952-0333. The relevant documents are available at: <http://www.ilmb.gov.bc.ca/slrp/lrmp/surrey/s2s/plan/lrmp.html>

### **Request for Information on Geothermal Energy Expansion, HELCO, Big Island, Hawaii (August 31)**

In a request for information (RFI), Hawaii Electric Light Company [seeks information on expanding geothermal energy on Hawaii](#) Island from stakeholders including potential geothermal developers and interested landowners on next steps that take into account the renewable energy goals and clean energy policy of Hawaii within the state's unique community, cultural, historical, and environmental context. The full RFI is available at <http://GeothermalRFI.heco.com>. Responses requested by August 31.

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## **Events**

### **Happening This Week**

#### **Induced Seismicity Potential in Energy Technologies, National Academies, Berkeley, CA (July 13-15)**

A current project of the National Academies, sponsored by the U.S. Department of Energy, seeks to report on Induced Seismicity Potential in Energy Technologies. A meeting of the committee will take place this week. The committee welcomes input from the community, including the private sector, on the study. If interested to attend any of the open (public) portions of the meeting, please contact Courtney Gibbs, [cgibbs@nas.edu](mailto:cgibbs@nas.edu). (July 14 — 09:15-16:45 OPEN SESSION — PUBLIC WELCOME TO ATTEND). If unable to participate in person in Berkeley, information may be submitted to the study at other times as well. For further study information: <http://www8.nationalacademies.org/cp/projectview.aspx?key=49325>

#### **Free Tours of Geysers Geothermal Field, Middletown, CA (July 15)**

Free guided tours of The Geysers geothermal field will be open to the community on Friday, July 15, 9 a.m. to 1 p.m. Hosted by Calpine, tourists should meet at the Calpine Visitors Center, 15500 Central Park Road, Middletown, California. Visit The Geysers Web site, <http://www.geysers.com/>.



## GEA Events

### **GEA to Hold First Ever National Geothermal Summit in Reno, Nevada (August 16–17)**

GEA is thrilled to announce the first ever National Geothermal Summit to be held Tuesday, August 16th and Wednesday, August 17th, 2011 at the Grand Sierra Resort and Casino in Reno, NV.

The National Geothermal Summit will be held for GEA members, companies, and individuals in the geothermal industry with industry experts sharing real life approaches to getting geothermal projects in the ground and online. Topics for the Summit include Outlooks for Washington and the Western States, Building New Transmission Projects in the Western States, New Renewable Energy Policy Developments in CA, and Moving Geothermal Forward on Public Lands. Attached is the latest agenda for the Summit for you to see the impressive line-up we have in store.

There will also be an Expo Hall featuring government agencies, universities and leading geothermal developers from the growing geothermal industry. We are opening the Expo Hall to our members first. To see the floor plan for the Summit please visit: <http://www.geo-energy.org/nationalgeothermalsummit/FloorPlan.aspx>.

The Summit will kick off Tuesday, August 16th at 3pm with a GEA Members Meeting and Elections where GEA staff will present 2011 accomplishments and plans for 2012 and beyond and have Board elections. Following the GEA Members Meeting will be Keynote Presentations by high level invitees and a delicious networking dinner where GEA will give out the first Annual GEA Honors Awards. This will be a great evening commencing a great event. Wednesday, the 17th will be a chock full day with Keynote Presentations, two plenary sessions, an Expo, Job Fair, breakout sessions, and end of day closing reception.

For details on attendee registration, event agenda, and floor plan visit <http://www.geo-energy.org/nationalgeothermalsummit/main.aspx>. For information about sponsorship opportunities, please contact Kathy Kent at 202.454.5263 or [kathy@geo-energy.org](mailto:kathy@geo-energy.org). Requests for media credentials should be directed to Adam Daley, The Rosen Group, at 646 695 7043 or [adam@rosengrouppr.com](mailto:adam@rosengrouppr.com).

### **Geothermal Energy Expo® and GRC Annual Meeting 2011, San Diego, CA (October 23–26)**

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. Please contact Kathy Kent, [Kathy@geo-energy.org](mailto:Kathy@geo-energy.org) for information, registration, sponsorship opportunities, etc.

### **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 at <http://www.geothermalenergy2011.com/>.

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

### **Other Events**

#### **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>

#### **USTDA Indonesia Geothermal Power Development Reverse Trade Mission (July 10–20)**

The U.S. Trade and Development Agency is pleased to announce the **Indonesia Geothermal Power Development Reverse Trade Mission**, taking place **July 10-20, 2011** in the cities of Sacramento (CA), Reno (NV), Ridgecrest (CA), and Washington, D.C.



The delegation includes some of the most important figures in Indonesian geothermal power development; additional information on the Mission can be found on the event website (<http://www.indonesiageothermal.govtools.us/>) as well as in the attached announcement.

[Register](#) to attend the Business Briefing in Reno, NV on Thursday, July 14.

[Sponsor](#) the Mission or host a lunch/dinner meeting with the delegation.

[**Note:** Participation at and/or sponsorship of all USTDA events is limited to U.S. companies, as defined under [USTDA's Nationality Requirements](#).]

Please contact to learn more about the upcoming Mission: Garrett Shields

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### **XIX Annual Congress of the Mexican Geothermal Association (September 22–23)**

XIX Annual Congress of the Mexican Geothermal Association (AGM)

Los Humeros, Pue., Mexico, 22-23 September 2011

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

### **CanGEA Events (September and November)**

September 14–15, 2011 - Toronto, ON, Canada—CanGEA's 4th Annual Conference and Investment Forum

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

CanGEA announces its 4th Annual Conference and Investment Forum to take place in Toronto/ ON, Canada, September 14-15, 2011. The event will showcase Canadian development, activities of Canadian and international companies, and plug in a comprehensive finance and investment element as part of its Investment Forum.

<http://www.cangeaevents.ca>



### **U.S.-Mexico Renewable Energy and Energy Efficiency Policy Roundtable, U.S. DOC, Mexico City, Mexico (September 26–27)**

*From DOC:* Join a senior U.S. Department of Commerce official in Mexico City for a U.S.-Mexico Renewable Energy and Energy Efficiency Policy Roundtable. The forum will help create a policy environment in Mexico capable of attracting renewable energy and energy efficiency (RE&EE) investment from the United States, address restrictions to U.S. RE&EE exports, and introduce U.S. companies to senior-level Mexican officials. In addition, participating U.S. companies can present their products or services at a technical seminar organized at the Green Expo.

The Government of Mexico has set an ambitious goal of 15% renewable energy production by 2020; this is coupled with a significant interest in energy efficiency improvements. To accomplish these goals, significant investment over the next decade is needed – providing export opportunities for U.S. companies.

Participants in the two-day event will:

- Accompany a senior-level Department of Commerce official to meetings with the Government of Mexico on renewable energy and energy efficiency policy;
- Receive an invitation to an Ambassador's reception to network with Mexican officials and companies;
- Participate in a closed-door U.S.-Mexico Roundtable on Renewable Energy and Energy Efficiency Policy;
- Be invited to showcase products or services at the Green Expo's technical seminar; and
- Receive in-depth market information from the International Trade Administration on opportunities in the Mexican RE&EE market.

Cost is \$500; Participants are responsible for making their own travel arrangements. **Deadline for registration is August 15.** To register for the policy roundtable email: [ryan.mulholland@trade.gov](mailto:ryan.mulholland@trade.gov) or [aliza.totayo@trade.gov](mailto:aliza.totayo@trade.gov).

### **Turkey Renewable Energy and Energy Efficiency Trade Mission, U.S. DOC, Ankara-Istanbul-Izmir (October 24–28)**

#### Why Turkey? Why Now?

- Turkey's renewable energy investments will exceed US\$ 20 billion during the next 5 years;
- Large Wind Energy Potential Project Developments: 10,000 MW by 2015 and 20,000 MW by 2023.
- Large hydroelectric power plant development potential: 5000 MW by 2015
- Number 2 geothermal energy development potential in Europe and 5th in the world;
- Number 2 in Europe in Solar Energy Potential
- A new Renewable Energy Law passed on December 12, 2010 and increased guaranteed prices for different renewable energy resources;



- Additional incentives provided for parts to be manufactured locally;
- 10 years Power Purchase Guarantee;
- Energy Efficiency Law in place;
- Turkish Government is encouraging U.S. ESCOs to cooperate with Turkish ESCOs;
- U.S. Department of Energy is leading a pilot project to develop 20 Energy Efficiency Projects in Izmir Ataturk Industrial Zone

What can you gain by participating in this TM?

- A senior U.S. Department of Commerce executive will lead the mission and facilitate valuable introductions to key Turkish energy industry decision-makers;
- A U.S. Export-Import Bank representative will travel with the delegation in all three cities and advise the participants on trade finance solutions;
- 10-15 pre-scheduled meetings with potential partners, distributors, end users, or local industry contacts;
- Meetings with key government decision makers and private sector firms;
- Pre-travel webinars on subjects ranging from industry briefings to business practices in Turkey;
- Meetings with CS Turkey's energy specialists in Ankara, Istanbul and Izmir, Turkey;
- Transportation to all mission-organized meetings inside Turkey (all air transportation within Turkey is the responsibility of the mission participant);
- The Trade Mission visit will provide visibility for participating American firms at networking receptions at the U.S. Ambassador's residence and U.S. Embassy press releases;
- Cost for small and medium size firms: \$3.285; large companies: \$4.055.

Who should participate: U.S. renewable energy equipment and systems manufacturers, RE project developers, engineering firms, energy efficiency systems and equipment suppliers, project finance companies, and any other RE & EE companies. To apply, go to: <http://www.buyusa.gov/kern/cetm.html>.

For more information please contact:

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**GEOHERMAL ENERGY WEEKLY**

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

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