

Geothermal Energy Weekly

A publication of the
Geothermal Energy Association

~formerly the GEA Weekly Update~



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www.geo-energy.org/publications/updates



National News

GEA Survey Shows New U.S. Geothermal Projects Could Top 10 GW, but Economy and Government Delays are Hurting New Projects

Washington -- A new report by the Geothermal Energy Association (GEA) shows strong growth in new geothermal power projects continuing through 2009.

U.S. Geothermal Power Production and Development Update, September 2009 identifies 144 new geothermal projects under development in fourteen states that could represent as much as 7,100 MW of new baseload power capacity. When added to the 3,100 MW of existing capacity, 10 Gigawatts of geothermal power appears to be feasible.

"It is great to see that between March 2009 and September 2009 there was a continued increase in new geothermal projects," remarked Dan Jennejohn, the report's author. "Interest in geothermal development continues to grow, with the number of projects up 50% and megawatts under development nearly doubling over the past two years." He added, "In 2009, we are seeing new power projects being initiated as well as new applications, such as geothermal-hydrocarbon coproduction, being pursued."

The report found a total of 144 projects under development that could add between 4,699.9 and 7,109.9 MW of power to the U.S. geothermal energy output. At the high end, that would be enough baseload power to supply about 20% of California's total electric

power in 2008 — or enough generating capacity to supply the power needs of about 7.2 million people.

On a state-by-state basis the GEA report found. (state, number of projects/potential MW) — Alaska, 6/70–115 MW; Arizona 1/2–20 MW; California, 37/1841.8–2435.8 MW; Colorado, 1/10 MW, Florida 1/0.2–1 MW; Hawaii, 2/8 MW; Idaho 5/238–326 MW; Louisiana 1/0.05 MW; Mississippi 1/0.05 MW; Nevada, 64/1876.4–3473.4 MW; New Mexico, 1/20 MW, Oregon, 13/317.2–368.2 MW, Utah, 10/272.4–332.4 MW; Washington 1/Unspecified.

The number of states with geothermal projects under development also increased, from 12 to 14 over the past six months, with the addition of two oil-field co-production projects in Louisiana and Mississippi. "Despite the recession, geothermal power projects continue to move forward," observed Karl Gawell, Executive Director of GEA.

While the report shows generally good news, it also shows a decline in projects currently listed in "phase 4," or under construction. According to GEA this was due to 4 new geothermal power projects moving to completion, but also reflects difficulty in obtaining final permits as well as project financing.

The recession, as the report confirms, is having an impact on the industry, according to GEA. "Financing is expensive and scarce, and available lenders are requiring much more work be done before they will finance projects," noted Gawell. "We hope the tax, loan guarantee, and DOE spending provisions of the stimulus bill will help turn this around, but there have been delays implementing these initiatives by the federal agencies."

"It also appears that some projects seeking final construction permits are having difficulty acquiring them because of the tremendous demands being placed

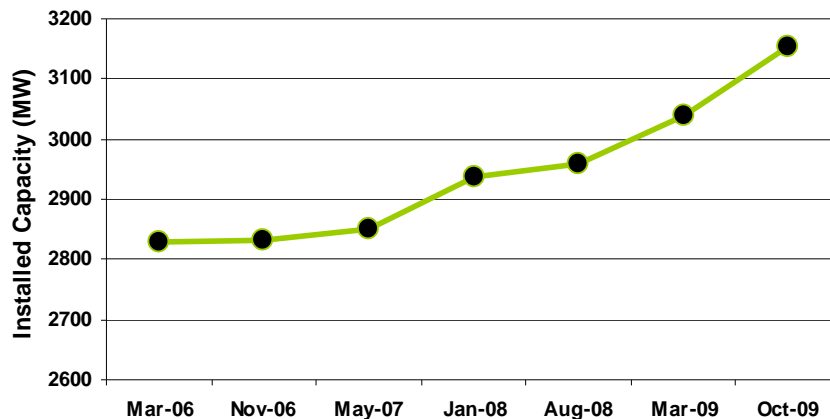
on federal, state, and local agencies by a wave of renewable energy project applications," Gawell noted. "These geothermal projects would otherwise be 'ready to go' bringing new jobs and spurring economic growth," he stressed, "So it's important that federal and state agencies don't neglect the needs of geothermal projects."

Key Points of the Study

The study showed that total installed geothermal capacity continued to grow. The completion of four new power plants over the past six months increased total installed capacity levels from 3040.27 MW in March 09 to 3152.72 MW in September 09.

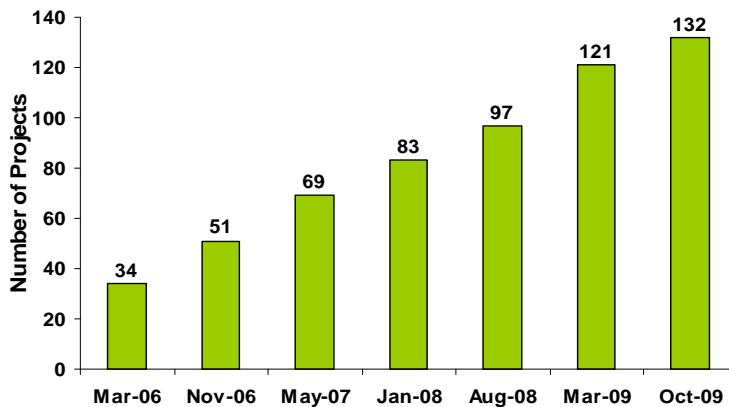
Below is a chart showing consistent growth over the past three years.

Total Installed Capacity 2006–2009



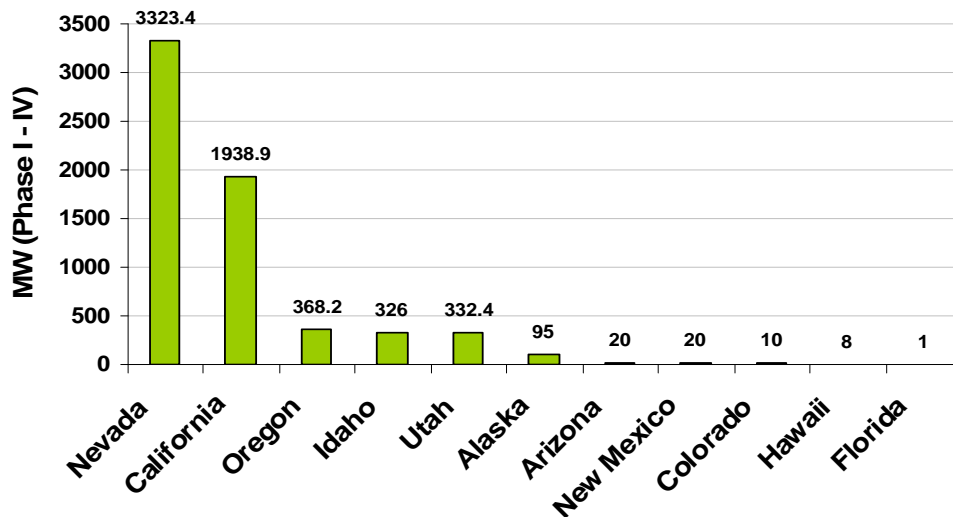
The report found that the number of projects under development in the US also continued to increase.

Total Confirmed Projects 2006–2009



A significant MW in development increase since the March 09 report was seen in the State of California, where a number of significant projects are recently being developed.

Total Capacity in Development by State

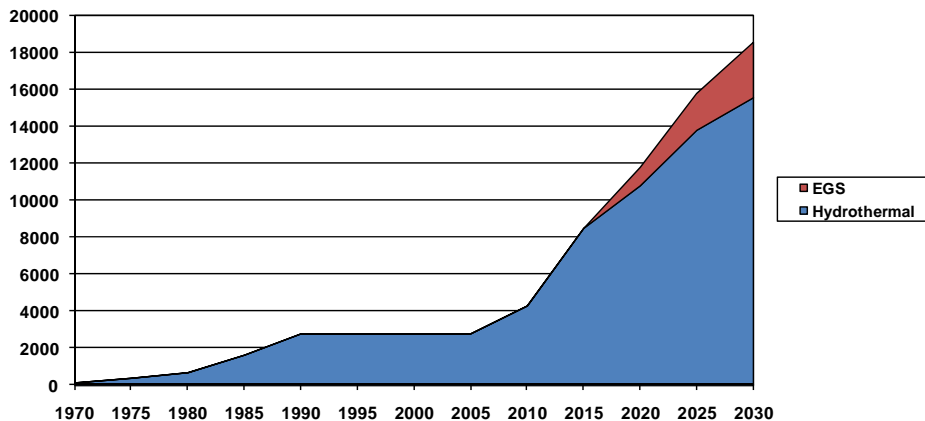


Developing Projects by State, September 2009

State	Phase 1 to Phase 4	TOTAL (with unconfirmed)
Alaska	5/50 – 95 MW	6/70 – 115 MW
Arizona	1/2 – 20 MW	1/2 – 20 MW
California	32/1554.9 – 1938.9 MW	37/1841.8 – 2435.8 MW
Colorado	1/10 MW	1/10 MW
Florida	1/0.2 – 1 MW	1/0.2 – 1 MW
Hawaii	2/8 MW	2/8 MW
Idaho	5/238 – 326 MW	5/238 – 326 MW
Louisiana	0	1/.05 MW
Mississippi	0	1/.05 MW
Nevada	60/1776.4 – 3323.4 MW	64/1876.4 – 3473.4 MW
New Mexico	1/20 MW	1/20 MW
Oregon	13/317.2 – 368.2 MW	13/317.2 – 368.2 MW
Utah	10/272.4 – 332.4 MW	10/272.4 – 332.4 MW
Washington	1/Unspecified	1/Unspecified
Total	132 Projects 4249.1 – 6442.9 MW	144 Projects 4699.9 – 7109.9 MW

Overall, the report's conclusions about geothermal potential appear within recent projections made by Deloitte LLP for US DOE. The chart below shows their projection of geothermal growth, and assumes that by 2020 there will be 10,800 MW of hydrothermal and 1,000 MW of EGS plants on-line.

Geothermal Power Growth in the US (US Market Report to DOE, Deloitte LLP, 2008)



Copies of the report will be available at the GEA booth at the Geothermal Energy Expo in Reno, Nevada, October 4–7, 2009 (<http://www.geothermalenergy2009.com/>). There will be a presentation on the report at the Expo on Tuesday, October 6 at 10am which will be webcast. *Copies of U.S. Geothermal Power Production and Development Update, September 2009 are also available to download free of charge from the GEA Web site at: <http://www.geo-energy.org>.*

Kerry, Boxer Introduce "Clean Energy Jobs and American Power Act"

Senators John Kerry (D–Mass.), Chairman of the Foreign Relations Committee, and Barbara Boxer (D–Calif.), Chairman of the Committee on Environment and Public Works, this week introduced their climate change legislation intended to create jobs, reduce pollution, and protect national security through domestic energy production and efforts against global climate change.

“Renewable sources like solar and wind are critical to the clean energy economy we hope to build. American engineers and scientists invented these technologies, but our competitors adapted them and surged ahead of us. The bill provides significant funding for advanced

research to make us world leaders again,” according to an overview of the bill on Kerry’s site.

According to the overview: “The bill sets ambitious and achievable goals to reduce carbon pollution. It targets a reduction of 20 percent by 2020 and 80 percent by 2050 from 2005 levels, the minimum scientists judge necessary to avert a climate disaster. The bill accomplishes these goals through a Pollution Reduction and Investment system that keeps American industry competitive during the transition to a new economy.

“The system applies only to the largest polluters in the country—initially around 7,500 facilities that account for nearly three - quarters of U.S. carbon pollution. Over ninety - eight percent of American businesses and all farmers are exempt.

“Instead of using a “command and control” model where government tells individual companies where and how to reduce pollution, companies can buy and sell pollution vouchers, enabling the private sector to seek out the most cost - effective path forward. This bill makes it profitable to reduce pollution by creating an important new incentive. Investors are already recognizing the financial benefits that accrue to companies that are smart about reducing carbon pollution, and this bill accelerates that process. Meanwhile, factories that reduce pollution will attract more capital, hire additional workers, and gain market share.”

The overview, a section-by-section summary, the full text of the proposed legislation, and other related materials are available at <http://kerry.senate.gov/cleanenergyjobsandamericanpower/intro.cfm>.

EPA Issues Final Mandatory Greenhouse Gas Reporting System

By Dan Jennejohn, GEA Research Associate

On September 22, the US Environmental Protection Agency (EPA) issued the final version of its Greenhouse Gas (GHG) Reporting System. The GHG reporting system will, for the first time, require major emitters of GHG's to report emissions data to the EPA on an annual basis.

Under the GHG reporting mandate fossil fuel and industrial suppliers, auto industry manufacturers, and facilities that emit 25,000 metric tons or more of CO₂ equivalent (the equivalent of about 4,600 passenger vehicles) per year are required to report emissions data to EPA on an annual basis. In addition to CO₂, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and other fluorinated gases emissions must be reported to the EPA.

The EPA reporting system requires emissions data gathering to begin on January 1, 2010. First annual GHG emissions reports are due March 31, 2011. It is expected that the EPA reporting system will cover approximately 85% of domestic GHG emissions and apply to roughly 10,000 facilities.

Facilities will no longer be required to report GHG emissions if they shut down or report less than 25,000 metric tons of CO₂ equivalent for five consecutive years or less than 15,000 metric tons equivalent for three consecutive years.

For more information on the EPA Greenhouse Gas Reporting System please visit the EPA website at <http://www.epa.gov/climatechange/emissions/ghgrulemaking.html>.

Reid Requests DOE to Expedite Loan Guarantees in Letter to Secretary Chu

In a letter to Energy Secretary Chu dated September 8, Senate Majority Leader Harry Reid (D-NV) wrote to request that the Federal Financing Bank distribution of loan guarantees be expedited and that steps be taken to lower borrowing costs.

“As you know, this program was first authorized under title XVII of the Energy Policy Act of 2005 but amended by ARRA (which added section 1705) to help finance and more rapidly deploy projects using technologies already commercially viable,” Reid writes. “I was a strong supporter of this provision in the stimulus legislation.”

Reid states, “It has been brought to my attention that even though rules implementing title XVII expressly provide that the FFB should be used to fund an obligation backed by a full guarantee from the Department, the Department will require fully guaranteed portions of section-1705 loans to be funded by commercial lenders. Specifically, DOE may arbitrarily “stable” together the guaranteed and un-guaranteed portions of the Section

1705 project loans in order to create a partially guaranteed instrument that would not qualify for FFB funding. Congress intended to provide significant support to qualifying projects by offering guaranteed financing, and the FFB was established specifically to fund government-guaranteed instruments. Moreover, FFB funding creates no increased risk or cost to taxpayers.”

He continues, “The savings in financing costs brought by using the FFB would be significant. The current-market interest rates and fees associated with the private placement of government-guaranteed loans would impose a substantially greater burden on projects than would be seen if those instruments were placed with the FFB. For example, industry experts expect that the FFB would charge approximately 0.25% to 0.50% over the relevant Treasury rate, amounting to a savings of approximately 1.50% on 80% of each project’s financing amount as compared to private financing costs. If the total size of this program were \$60 billion, then the annual savings would be \$650 million each year. Consequently, I worry the purpose of the section-1705 program--encouraging the rapid development and success of renewable projects--would be undermined by closing the FFB to guaranteed instruments.”

Reid closes, “I share your goals of modernizing our nation’s energy-producing infrastructure and quickly creating jobs for the new economy. By lowering borrowing costs for eligible projects through use of the FFB, I am confident we will reach those goals sooner. I look forward to your response.”

Sen. Murkowski’s Comments on Boxer-Kerry Cap-and-Trade Bill

Press Release, Washington, D.C. — U.S. Sen. Lisa Murkowski, R-Alaska, today made the following comments on the introduction of the Boxer-Kerry cap-and-trade bill.

“Right now health care reform is taking center stage, the Senate Finance Committee is marking up the bill and rejecting the massive costs associated with it, yet the Boxer-Kerry climate bill is like déjà vu when we look at how much it costs,” Murkowski said. “Once again we are given a massive bill with massive costs.”

“We must determine how to balance environmental progress with economic growth,” Murkowski said. “Our economy is already struggling, now is not the time to enact a bill that impose financial burdens that extent of which we don’t know for sure.”

“After spending 8 months working on this bill, what is most striking about it is what isn’t in it – the lack of detail and the many placeholders,” Murkowski said.

“We’ve got to be honest with ourselves if we are truly going to decrease emissions,” Murkowski said. “Nuclear energy must be a part of our energy mix if we are going to do so.”

See

http://murkowski.senate.gov/public/index.cfm?p=PressReleases&ContentRecord_id=d3035cf9-eb11-4206-abd3-852ac6d1c752.



Company News

Davenport Power: Explorations Continue at Newberry

An article on bendbulletin.com provides an update on Davenport Power's geothermal explorations outside of Newberry National Volcanic Monument. Test wells last year found heat but did not find the rocks and water necessary for geothermal development. This year, explorations continue, according to the article. The company is building on geologic mapping, is considering creating an enhanced geothermal system, and is also trying out new technology using listening devices to hear liquid moving through the ground.

"One of the things we want to do is engage in some more exploration activity," Doug Perry, president of Davenport Power told press. "The idea is to still try to get the best picture we can of what it looks like down deep. Hopefully, from that we would end up targeting where we would drill some more exploratory wells."

See

<http://www.bendbulletin.com/apps/pbcs.dll/article?AID=/20090928/NEWS0107/909280363/0/NEWS01>.

Google: DailyFinance Interviews Dan Reicher on Geothermal

In an interview with DailyFinance, Dan Reicher, energy expert and head of Google.org's climate and energy initiatives gave insight into Google's geothermal interests. "The great thing about geothermal is it has

capacity factor equivalent to coal. That makes it very, very attractive," he said.

"We are looking at advanced technologies in geothermal," Reicher continued. "There has been so much progress made in going beyond traditional geothermal. There is still opportunity there, but we are looking at other systems in geothermal, such as drilling deep to get to hot rocks, injecting water into the hole to fracture the rock and pumping the now heated water back to the surface to make steam that then turns a turbine and make electricity."

"We're also looking at projects where geothermal energy can be produced alongside existing drilling opportunities," Reicher said. "It turns out the drilling and energy production industries bring up very large quantities of hot water. So that's another potential source where you don't even have to pay for the drilling costs. We've made investments in a number of geothermal companies. And this year, geothermal is getting \$400 million in stimulus money."

"That's a lot for a space that previously got less than one-tenth that amount," according to Reicher. "So we're learning how to do it in new ways and there are an increasing number of projects being developed and financed. Interestingly, Texas is, by certain measures, the Saudi Arabia of oil. So imagine unleashing the oil and gas industry in Texas to start developing this resource."

See <http://www.dailyfinance.com/2009/09/29/google-orgs-energy-czar-dan-reicher-says-it-will-help-make-us-g/>.



Renewable Energy and Climate Change

Chinese President Pledges to Curb Carbon Dioxide Emissions at UN Summit

From EESI Climate Change News. On September 22, Chinese President Hu Jintao pledged China would reduce the carbon intensity of its economy by 2020 at the United Nations Forum on Climate Change. "We will endeavor to cut carbon dioxide emissions per unit of [gross domestic product] GDP by a notable margin by 2020 from the 2005 level," Hu said. He did not specify the actual reduction China is considering, instead committing to a reduction of a "notable margin." The proposal is unlikely to mean an overall reduction in emissions, as China's economy is expected to continue to grow rapidly. Hu also pledged to "vigorously develop" renewable and nuclear energy and restated China's position that developed nations should do more than developing nations to fight climate change, as they are historically responsible for a greater amount of emissions.

See

<http://www.telegraph.co.uk/earth/environment/climatechange/6219169/Chinas-Hu-Jintao-pledges-to-curb-carbon-dioxide-emissions-at-UN-summit.html> and http://news.xinhuanet.com/english/2009-09/26/content_12114567.htm.

EU, US, China in Talks for Green Goods Tax Pact

The European Union and the United States are in discussions on cutting import tariffs on green goods, according to *Reuters*. The pact would include Organization for Economic Cooperation and Development (OECD) countries and China and would cover goods such as renewable technologies.

"The talks are entering an advanced stage. Brussels and Washington hope this could be one of the incentives needed to get China on board in the lead up to the Copenhagen climate change talks," one EU diplomat told *Reuters*. "Brazil and India are not seen as part of the deal since reducing their import tariffs would not benefit them. They can opt in, but it is expected they will opt out," the diplomat said.

"Member states will get a complete update on Oct. 6 in Sweden and if approved, formal negotiations could start with the OECD and China before Copenhagen," a second diplomat said. Negotiations would take place between ambassadors at the World Trade Organization in Geneva, but any deal would be formally agreed separately. It would be similar to an agreement in the pharmaceutical sector and would not contravene WTO rules, according to the article.

See

<http://www.reuters.com/article/latestCrisis/idUSLS138030>.



State News

California. Lithium Mining Project Planned for Geothermal Plant

Hannon Armstrong and Simbol Mining are planning a "clean energy twofer" at Imperial Valley's Salton Sea to generate geothermal power, and at the same time, extract lithium for batteries from the briny geothermal water, according to greentechmedia.com.

One 50-MW plant is underway, with four more on the drawing boards, Hannon CEO Jeff Eckel told press. Each plant's could potentially yield an amount of the lithium equal to about 5% of the world's current production of the sought-after ultra-light metal.

See

<http://www.greentechmedia.com/articles/read/geothermal-power-lithium-mining-two-in-one-in-california/>

Utah. Researchers to Conduct Productivity Tests at Raft River Plant

DOE will fund \$7.4 million for a University of Utah project to increase pathways in geothermal reservoirs, thus making geothermal more productive, as GEA reported in a September 9 newsletter. Reliableplant.com this week provides an article with more details on the project. The research will take place at U.S. Geothermal's Raft River plant in southeast Idaho, a site where DOE has previously conducted research over three decades. The process will involve cold water flowing into the hot rocks, and pumping water in at high pressures to widen the cracks. The process will improve the productivity of the well and will be used for other projects.

See

<http://www.reliableplant.com/article.aspx?articleid=20229&pagetitle=%2410.2+million+study+aims+to+make+geothermal+more+productive>



International News

Australia. Eden Energy Announces Farm-in Agreement with Origin Energy

Eden Energy Ltd has entered an agreement with Origin Energy wherein Origin will pay \$1 million cash and will fund the first \$500,000 on Eden's Cooper Basin license

in South Australia, according to finnewsnetwork.com. Origin will earn a 70% interest.

See

http://www.finnewsnetwork.com/archives/finance_news_network12541.html

Canada. Researchers Consider Geothermal for Heating Oil Sands

The University of Alberta has reached an agreement with the Helmholtz Association of German Research Centres to further research into oil sands emissions, according to theglobeandmail.com. One area of study is in replacing natural gas heat, used to separate oil from sand, with geothermal heat. The partnership may begin testing in the next five years.

See <http://www.theglobeandmail.com/report-on-business/industry-news/energy-and-resources/researchers-look-preheater-for-oil-sands/article1306104/>.

Chile. Government Investigates Geyser Activity at Geothermal Drilling Site

A 60-meter-high vapor current which has been ongoing since September 12 has paused drilling at a geothermal project at the Tatio Geysers, according to santiagotimes.cl. Government is investigating environmental effects, while the mayor of Calama where the site is located wants the geyser field to be declared a national park. Enel's Geotermica del Norte report that drilling has not resulted in any harm, according to the article.

See <http://www.santiagotimes.cl/santiagotimes/index.php/2009092817237/news/environmental-news/chile-govt-investigates-geothermal-drilling-on-tatio-geysers.html>.

Chile. Hot Rock Awaits Approval on 12 Geothermal Applications

Australian Hot Rock Ltd's Chilean subsidiary, Hot Rock Chile S.A., has filed 12 geothermal claim applications with the Chile Ministry of Mines and is optimistic about

development in the country, according to news.theage.com.au. The company plans to begin explorations as soon as the applications are granted. Geothermal resource potential in Chile could be up to 16,000 MW, according to the article.

See <http://news.theage.com.au/breaking-news-business/hot-rock-finds-opportunity-in-chile-20090930-gcdf.html>.

Iceland. FM Encourages Nations to Follow Iceland's Clean Energy Transformation

Iceland's Foreign Minister Ossur Skarphedinsson spoke at the UN General Assembly's general debate, encouraging a "clean energy transformation" in nations around the world as Iceland has done with geothermal energy. Skarphedinsson underscored the "vastly underestimated possibilities in geothermal."

"Many of the countries of the African Rift Valley have similar potential as Iceland does. In South-East Asia we have the greatest geothermal potential in the world. Latin America has valuable potential too," he said.

"A generation ago, we were as dependent on imported fossil fuel as any other nation," he said. "A generation later, 80% of our energy needs are met by renewables. All our heating, all our electricity is 100 percent renewable."

"Our Icelandic expertise is available," he said. Despite economic difficulties, Iceland's geothermal training program of the United Nations University in Iceland has remained open.

See http://news.xinhuanet.com/english/2009-09/27/content_12115155.htm.

Indonesia: Geo Dipa Secures \$103 million for Patuha project

PT Geo Dipa Energi has secured US\$103 million by loan from PT Bank Negara Indonesia for their 55-MW geothermal plant in West Java, according to thejakartapost.com. The Patuha development plan includes three projects sites, the first to begin operation in 2012.

“We’ll use the money to finance the power plant construction,” Geo Dipa president director Praktimia Semiawan told press. “We expect the power plant to be in operation by early 2012.” The other two sites are expected to begin production by 2013.

See

<http://www.thejakartapost.com/news/2009/09/30/geo-dipa-secures-103-million-loan-patuha-project.html>.



www.geo-energy.org/publications/updates



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



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Senior Director, Business Development, Major Geothermal Company

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

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



Requests for Proposals

Closing This Week

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



Events

Happening This Week

GEA Annual Members Meeting and Policy Workshop, October 3, Noon–4pm (Reno, NV)

GEA opened registration for its 2009 Annual Members Meeting and Policy Workshop, to be held at the Peppermill in Reno on Saturday, October 3, from Noon–4pm. The event brings together elements of the two separate events held in 2008. Employees of GEA Members companies and all companies exhibiting at the 2009 GEA Geothermal Energy Expo are encouraged to participate, and while there is no registration fee GEA asks that participants register in advance to facilitate planning for the event. The event is open to the public on a space available basis. Registration is available at: Register at: http://www.geo-energy.org/new_expo/events.asp.

Agenda — GEA Members Meeting and Policy Workshop

Noon: Call to Order, Jonathan Weisgall, VP MidAmerican Energy; President, GEA

Noon–1:15pm Individual Presentations (each to be followed by questions and discussion):

- Protecting the Environment While Developing Renewable Energy on Public Lands
Carl Zichella, Director of Western Renewables Programs, Sierra Club
- The National Geothermal Action Plan
Ed Wall, Program Manager, US Department of Energy, Geothermal Technology

Program

1:15-1:30 Break

1:30-2:45 Expert Presentations Updating Federal or State Regulatory Issues.

Panel I

Kermit Witherbee, US Bureau of Land Management, Update on Leasing and Permitting on Federal Lands

Karl Gawell, GEA, Status of Federal Stimulus Legislation Implementation

John McCaull, GEA, Status of Western Transmission Initiatives, California RPS Legislation

- Questions and Discussion

Panel II

John McKinsey, Stoel Rives LLP, Power Purchase Agreements and Utility RFO's, Federal and State Regulatory Changes and Recent Events in Resource Development

Fred Schmidt, Holland & Hart, LLP, recent Nevada legislative and PUC developments

- Questions and Discussion

2:45 -3:30 GEA Review and Outlook.

Karl Gawell, Kathy Kent and Leslie Blodgett will review GEA Activities in 2009, and discuss the outlook plans for 2010.

- Discussion: What are the key's to long-term industry growth?

3:30-3:45 Break

3:45 GEA Board Elections for 2010

4:00 Adjourn

GEA. Geothermal Energy Expo/GRC Annual Meeting, October 4-7 (Reno, NV)

Every year, the Geothermal Energy Expo hosts the world's largest gathering of vendors providing support for geothermal resource exploration, characterization, development, production and management. It provides a unique opportunity for exhibitors to showcase their projects, equipment, services and state of the art technology to the geothermal community.

The Geothermal Energy Expo 2009 will be held at the Peppermill, Reno's premiere hotel and casino in Reno, Nevada. The Geothermal Energy Expo hosts the world's largest gathering of vendors providing support for geothermal resource exploration, characterization, development, production, and management. It provides a unique opportunity for exhibitors to showcase their projects, equipment, services, and state of the art technology to the geothermal community.

Booth space at the Geothermal Energy Expo is sold out. Speaking opportunities in the Expo Hall are still available through our first Geothermal Energy Webcast live from the Expo Hall on Tuesday, October 6th from 10am-1pm PT. This option is available for those unable to attend in person, those who were unable to secure booth space, or anyone interested. This

Webcast is expected to reach an audience of a thousand or more. We will post a schedule of speakers in our Expo Guide, on GEA's website and on signage on site. Presentations are available in 15 minute slots. If interested, please contact Kathy Kent at kathy@geo-energy.org at your earliest convenience.

GEA is grateful to our Geothermal Energy Expo 2009 sponsors to date: Halliburton, Stoel Rives, LLP, GeoTek Energy, The Shaw Group, Geothermal Development Associates, Islandsbanki, Vulcan Power Company, TNG Energy Services, Geothermal Resource Group, Ormat Technologies, Tranter, Inc., DHI Services, NV Energy, Enel North America. We would also like to thank our media partners: altenergymag.com, New Energy Finance, Recharge, RenewableEnergyWorld.com, and NA Clean Energy. For more information about the Geothermal Energy Expo, visit: <http://www.geo-energy.org>.

GEA Events

Calendar of Upcoming GEA Events 2010

October 3, 2009	GEA Members Meeting and Policy Workshop Peppermill, Reno, NV
October 4-7, 2009	Geothermal Energy Expo and GRC Annual Meeting 2009 Peppermill, Reno, NV
December 8-10, 2009	PowerGen International 2009 Las Vegas Convention Center, Las Vegas, NV
January 2010	GEA Geothermal Energy Finance Forum New York, NY
February 23-25, 2010	Renewable Energy World North America 2010 Austin, TX
April/May 2010	GEA Geothermal Symposium Washington, DC
July 2010	GEA Geothermal Energy Workshop Las Vegas, NV
TBA	GEA Geothermal Expo and Conference GEA's annual Geothermal Energy Expo, date and location to be announced

Why Should You Attend GEA Events? As the national trade association for the geothermal industry, the Geothermal Energy Association (GEA) strives to create and deliver educational events involving the full range of the geothermal industry, reflecting the dynamic growth of the geothermal market, and communicating the benefits of geothermal energy to all. GEA events offer important opportunities to learn and network within the geothermal community, and to inform and educate

companies and organizations outside today's industry that are interested in learning more about geothermal energy. The revenue generated from GEA events is used to advance the goal of the GEA, "to expand the production and use of geothermal energy in the United States and around the world." The revenue supports GEA's workshops and events, communications activities, outreach efforts, policy related activities and analysis, internet publications, and other initiatives designed to help achieve this goal. ONLY GEA puts your dollars to work in all of these ways to advance the future of the geothermal energy industry. And, GEA does not sell your email or postal address to junk mailers or spammers.

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

Events Available on GEA Web Site

Renewable Energy Indonesia 2009 Trade Show, October 14–17 (Jakarta, Indonesia)

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

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

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

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

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

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

Geothermal Energy Weekly

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

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