



GEOTHERMAL ENERGY ASSOCIATION

209 Pennsylvania Avenue SE, Washington, D.C. 20003
Phone: (202) 454-5261 Fax: (202) 454-5265
www.geo-energy.org

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National News

Groups Duel in Opposition, Support for House Climate Bill

Several groups representing manufacturers and small businesses are rallying against the House Waxman-Markey bill, which they say would threaten the economy by raising energy costs, according to thehill.com. “Our message to senators is that the Waxman-Markey bill is an ‘anti-jobs, anti-energy’ piece of legislation,” Jay Timmons, National Association of Manufacturers executive vice president told press. A study paid for by NAM and the American Council for Capital Formation reported the bill could cost 2.4 million jobs by 2030.

The NAM and the National Federation of Independent Business plan to pay for TV, radio and Internet advertisements against the bill, while the American Petroleum Institute is funding a campaign of anti-climate-bill rallies.

Those in favor of the bill include the League of Conservation Voters, who announced it would pay for advertisements that criticize congressional members for voting against the House climate bill.

See <http://thehill.com/business-a-lobbying/56561-business-groups-target-climate-bill>.

White House Budget Update Maintains CO₂ Permit Auction

The White House budget update calls for \$15 billion from cap and trade permits to pay for clean energy investments, though the House of Representatives passed cap and trade legislation in June that would give 85% of permits away free initially to help industries during the transition period, according to *Reuters*. The current inconsistency will make it difficult for both the legislation to pass and for government to pay for those tax incentives, analysts have expressed.

Kevin Book, energy analyst for ClearView Energy Partners said the White House may be sending a signal. "The White House is negotiating with Congress," he said. "They are making very clear where their initial stance is going to be, just as the Hill has made clear what their initial stance is going to be." The Senate bill is likely to follow the House format.

The budget review assumes implementation of Obama's campaign promise; "To the extent that Congress enacts a different proposal, we'll adjust the budget accordingly at that time," an Office of Management and Budget official told press.

See <http://www.reuters.com/article/GCA-GreenBusiness/idUSTRE57O5MO20090825> and <http://www.examiner.com/x-1163-Atlanta-Public-Policy-Examiner-y2009m8d25-Budgets-commitment-to-capandtrade-bemuses-Dixie-govs>.

Department of Commerce Leads U.S.-Indonesia Clean Energy Policy Mission

U.S. Department of Commerce Acting Assistant Secretary Steve Jacobs led a clean energy policy mission to Jakarta, Indonesia for three days in July to advance U.S. commercial and strategic interests with the Indonesian Government regarding renewable energy policy. The mission, entitled the U.S.-Indonesia Clean Energy Expansion Program, was successful particularly in generating good relations and in identifying and reaching agreement on obstacles to overcome. Many Indonesian officials commented on their appreciation of the delegation's attendance, according to Ryan Mulholland, International Trade Specialist for the DOC, who organized the project.

The program featured a series of bilateral meetings, a day-long policy roundtable, and a number of networking opportunities for participants. In addition to the DOC the delegation included participants from the Department of Energy, the State Department, the ExIm Bank, the Overseas Private Investment Corporation, USTDA, USAID, and over 20 U.S. and 20 Indonesian companies.

The Minister of Energy was fully supportive of geothermal and all renewables, according to Mulholland. Discussions included how to improve current legislation and create a more incentivized policy. A morning panel on Geothermal Power Production at the policy roundtable, attended by over 100 people, covered the following topics:

- “Geothermal Resources and Upcoming Projects in Indonesia” – Sugiharto Harsoprayitno, Director of Geothermal, Indonesia Ministry for Energy & Mineral Resources
- “Challenges Facing Expanded Development/Investment of Geothermal Projects” – Barry Andrews, President of Geothermal Power Generation, Chevron
- “Geothermal Technologies in the United States” – Ryan Mulholland, Renewable Energy Trade Specialist, U.S. Department of Commerce
- “Pricing Challenges and the Promotion of Geothermal Energy” – David Citrin, Vice President, Ormat Technologies
- “USTDA Funding for Geothermal Projects” – Mark Dunn, Regional Manager for Asia, U.S. Trade Development Agency

By way of next steps, ITA is seeking to bring a small delegation of Indonesian Government officials back to the U.S.

Look for an update and presentation at GEA's Geothermal Energy Expo in Reno, Nevada this October.

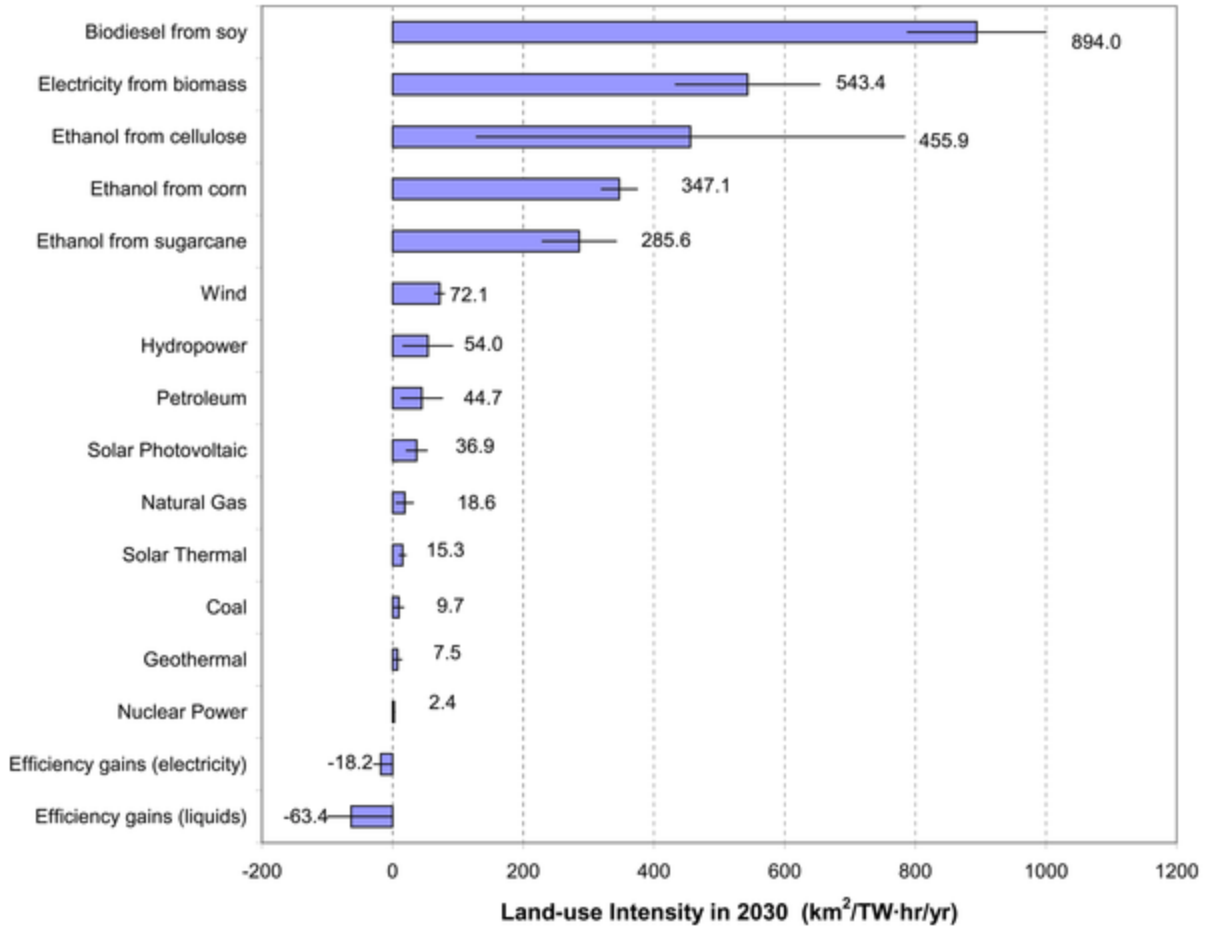
Report from The Nature Conservancy and Northwestern University Highlights Geothermal as a Non-Land-Intensive Energy Technology

A recent report published by The Nature Conservancy and Northwestern University titled *Energy Sprawl or Energy Efficiency: Climate Policy Impacts on Natural Habitat for United States of America* highlights geothermal energy as one of the least land-intensive energy production options available, second only to nuclear energy. The report analyzes the land-use impact of new energy development as a result of new U.S. energy policies. The report accounts for current laws and potential cap-and-trade policies not only to estimate potential land area needed to produce new energy but also to delineate which habitat types would be most affected by new U.S. energy policies.

According to the report, at least 206,000 km² of land will be impacted by new energy development, regardless of climate change policy. However, certain generation technologies use less land than others. That report states, “The land-use intensity of different energy production techniques (i.e., the inverse of power density, as measured in km² of impacted land in 2030 per terawatt-hour per year, varies over three orders of magnitude. Nuclear power (1.9–2.8 km²/TW hr/yr), coal (2.5–17.0 km²/TW hr/yr) and geothermal (1.0–13.9 km²/TW hr/yr) are the most compact by this metric. Conversely, biofuels (e.g., for corn ethanol 320–375 km²/TW hr/yr) and biomass burning of energy crops for electricity (433–654 km²/TW hr/yr) take

the most space per unit power. Most renewable energy production techniques, like wind and solar power, have intermediate values of this metric.”

As displayed below in a chart from the report, geothermal energy is more compact, in terms of land use, than other generation technologies except nuclear energy. Additionally, the article also highlights increases in energy efficiency and conservation as an effective tool in mitigating future land use resulting from increased energy production.



The report is accessible at <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0006802>.

Article by Dan Jennejohn, GEA Research Associate

DOE to Fund Four Geothermal Projects at Livermore National Lab

Lawrence Livermore National Lab submitted four proposals to the Department of Energy earlier this year and was selected for three, according to renewableenergyworld. The funded projects will help Livermore retap the thriving geothermal program it had twenty years ago, each receiving \$400,000 to \$600,000 each year for three years.

Charles Carrigan's project will develop realistic computer-based models of enhanced geothermal system (EGS) stimulations to assess aspects of EGS such as rock formation mechanical characteristics, initial thermal and stress state of the targeted rock formation, and hydraulic and explosive modes of fracture propagation.

Postdoc Dennise Templeton's project will map microseismicity for geothermal reservoir management to detect and locate microearthquakes induced by EGS hydrofracturing and fluid reinjection operations.

Geochemist Susan Carroll will determine what effect geochemical reactions have on using CO₂ as a heat exchanger. "We want to understand what impact CO₂ would have on geochemical reactions and how it would affect the field, whether it would enhance or clog fracture networks that bring heat to the surface," Carroll told press.

See <http://www.renewableenergyworld.com/rea/news/article/2009/08/geothermal-energy-program-heats-up>.

Company News

Davenport Power: Exploratory Work Continues on Newberry Project

Davenport Power has provided an update to its Newberry Geothermal Project in Oregon. During the past months, project geologists and scientists have evaluated data from two exploratory wells, along with previously gathered information. Next steps are to continue exploration through surface geophysical work, consisting of gravity surveys and magnetotelluric surveys. The Newberry Geothermal Project is also proposing a series of small, slim diameter temperature gradient holes to gather temperature data and conduct passive-seismic monitoring of subsurface conditions.

The proposed temperature gradient drilling must be approved by the Bureau of Land Management through an Environmental Assessment. The EA is expected to be complete by early 2010 and field exploration activities will begin in spring 2010.

See <http://davenportpower.com/>.

Geothermal Inc.: Neal Hot Springs Project Raises \$10.1m

Geothermal Inc. has announced gross proceeds of \$10.1 million to develop the 22-MW geothermal project at Neal Hot Springs in Oregon, according to [newenergyworldnetwork.com](http://www.newenergyworldnetwork.com). The proceeds will go toward drilling and general purposes, and operations are expected to begin in late 2011.

See http://www.newenergyworldnetwork.com/renewable-energy-news/by_region/north_america/geothermal-inc-generate-net-proceeds-of-101m-to-develop-neal-hot-springs-project.html?utm_source=NewNet+Clean+Energy+Investor+Newsletter%28cap%29&utm_campaign=167c7f777e-newnet_newsletter1_test&utm_medium=email.

Ram Power: Equity Financing Completed

The proceeds of the Financing, less the Agents' expenses, will be held in escrow pending the completion of the business combination involving GTO, Polaris Geothermal Inc., Western GeoPower Corp. and Ram Power, Inc. (the "Business Combination"), as disclosed in the press releases of GTO dated June 30, 2009 and July 15, 2009.

For full press release, see http://www.marketwirecanada.com/mw/rel_ca.jsp?id=1033679&sourceType=3.

Renewable Energy and Climate Change News

Geothermal Heat Pump Innovation Incentives Announced

The Foundation for Geothermal Innovation (FGI) and the Lemelson Foundation have released findings recommending improvements for problems centered around high temperatures and high pressures in geothermal heat pump technology, according to prnewswire.com. Design improvements were named as one of the solutions at a meeting held in conjunction with the annual Stanford Geothermal Workshop. The Foundation for Geothermal Innovation has integrated the findings into the structure of a multi-million dollar incentive prize. The report is available at <http://www.geothermalinnovation.org>.

See <http://news.prnewswire.com/DisplayReleaseContent.aspx?ACCT=104&STORY=/www/story/08-20-2009/0005080681&EDATE=>.

DOE Announces \$27.6m to 19 Projects for Evaluating CO₂ Storage

The Department of Energy has awarded \$27.6m in funding for 19 projects that will monitor and evaluate CO₂ storage, according to the *New York Times*. The projects come mainly from universities and include those conducting simulations of geologic storage of CO₂ and those conducting risk assessments. An additional \$8.2m will need to be raised in non-federal cost sharing.

"These projects represent specific areas in monitoring CO₂, both in the subsurface and at the surface, that helps to meet our goals to account for 99% of CO₂ once it's injected," John Litynski, sequestration division director at DOE's National Energy Technology Laboratory told press.

Recipients include Columbia University, Schlumberger Ltd's Carbon Services, Fusion Petroleum Technologies, and Planetary Emissions Management Inc.

In addition, the U.S. Environmental Protection Agency is requesting comments on new information it has received about geologic sequestration of carbon dioxide. The new information supports proposed rules to create a new class of injection well and establish requirements for protecting drinking water sources located near geologic sequestration activities under the Safe Drinking Water Act.

See <http://www.nytimes.com/gwire/2009/08/24/24greenwire-doe-announces-nearly-30m-for-monitoring-evaluat-7095.html> and <http://planetark.org/wen/54397>.

State Department Approves Pipeline Carrying Dirty Tar Sands Oil from Canada

From Sustainable Energy Coalition/SUN DAY Campaign: News Story Excerpts

The State Department has issued approval for a controversial pipeline designed to carry the dirtiest oil on earth from Canada into the United States. The decision will allow construction of Enbridge Energy's Alberta Clipper pipeline across northern Minnesota to Superior, Wisconsin and the Southern Lights pipeline to carry hazardous waste back to Canada. A coalition of groups, including Sierra Club, Earthjustice, Indigenous Environmental Network and Minnesota Center for Environmental Advocacy have strongly opposed the tar sands pipelines and plan to challenge the decision in court.

http://action.sierraclub.org/site/MessageViewer?em_id=126201.0

Should Renewables Be ‘Made in the U.S.A.’?

From Sustainable Energy Coalition/SUN DAY Campaign: News Story Excerpts

As companies rush to submit preliminary applications by Sept. 16 for \$2.3 billion in tax credits for renewable-energy equipment manufacturing, the program also has sparked debate about whether subsidizing American manufacturing will ultimately pay off. Does it make sense for the country to manufacture solar panels, wind turbines and electric cars? Or will renewable-energy manufacturing – mirroring the electronics, semiconductor and car industries – only end up migrating to China and other countries? Some suggest that a better strategy would be to accept that the U.S. is going to buy cheap panels from China, but then create jobs in putting them up. Plenty of others disagree.

<http://greeninc.blogs.nytimes.com/2009/08/20/should-renewables-be-made-in-the-usa>

State News

DOE Awards \$51m for State Energy Programs in Alaska, Guam, and New Jersey

Press Release—August 26, EERE

DOE delivered more than \$51 million American Recovery and Reinvestment Act funds on August 25 to Guam and the states of Alaska and New Jersey for energy efficiency and renewable energy projects. Under DOE's State Energy Program (SEP), states and territories have proposed statewide plans that prioritize energy savings, create or retain jobs, increase the use of renewable energy, and reduce carbon pollution. The funds will support rebates and other financial incentives; renewable energy pilot programs; public education efforts; new lighting standards; energy audits; and energy efficiency retrofits in schools, commercial buildings, industrial sites, large local facilities, multi-building state institutions, and rural communities.

For more, see http://apps1.eere.energy.gov/news/news_detail.cfm/news_id=14858.

Alaska: Chena Hot Springs Announces Portable Geothermal Power Unit

Chena Hot Springs and United Technologies Corporation have developed a portable geothermal power unit with a grant from the Department of Energy that was unveiled last week at Chena Hot Springs, according to ktuu.com. Sen. Lisa Murkowski, Rep. Don Young and former senator Ted Stevens were present at the unveiling. The technology will be tested in Florida this fall.

See <http://www.ktuu.com/Global/story.asp?S=10975735>.

California Energy Commission Releases Draft Cost of Electricity Generation Report: Geothermal Energy Costs at Low End of Curve

August 28, 2009. As the California Energy Commission (CEC) prepares to issue its 2009 Integrated Energy Policy Report, one of the key informational components is to develop a “single set of the most current levelized cost estimates for energy generation technologies.” A draft staff report “[Comparative Costs of California Central Station Electricity Generation Technologies](#)” is available for public review and comment through September 2, 2009. Beyond annual energy planning reports, the data used in the CEC comparative cost study is arguably the nation’s most complete survey of comparing the cost of one energy technology against another. Since most studies involving resource planning for new generation or transmission projects requires an assessment of costs, accurate and readily available cost of generation estimates are essential to much of the work of the CEC and other state agencies.

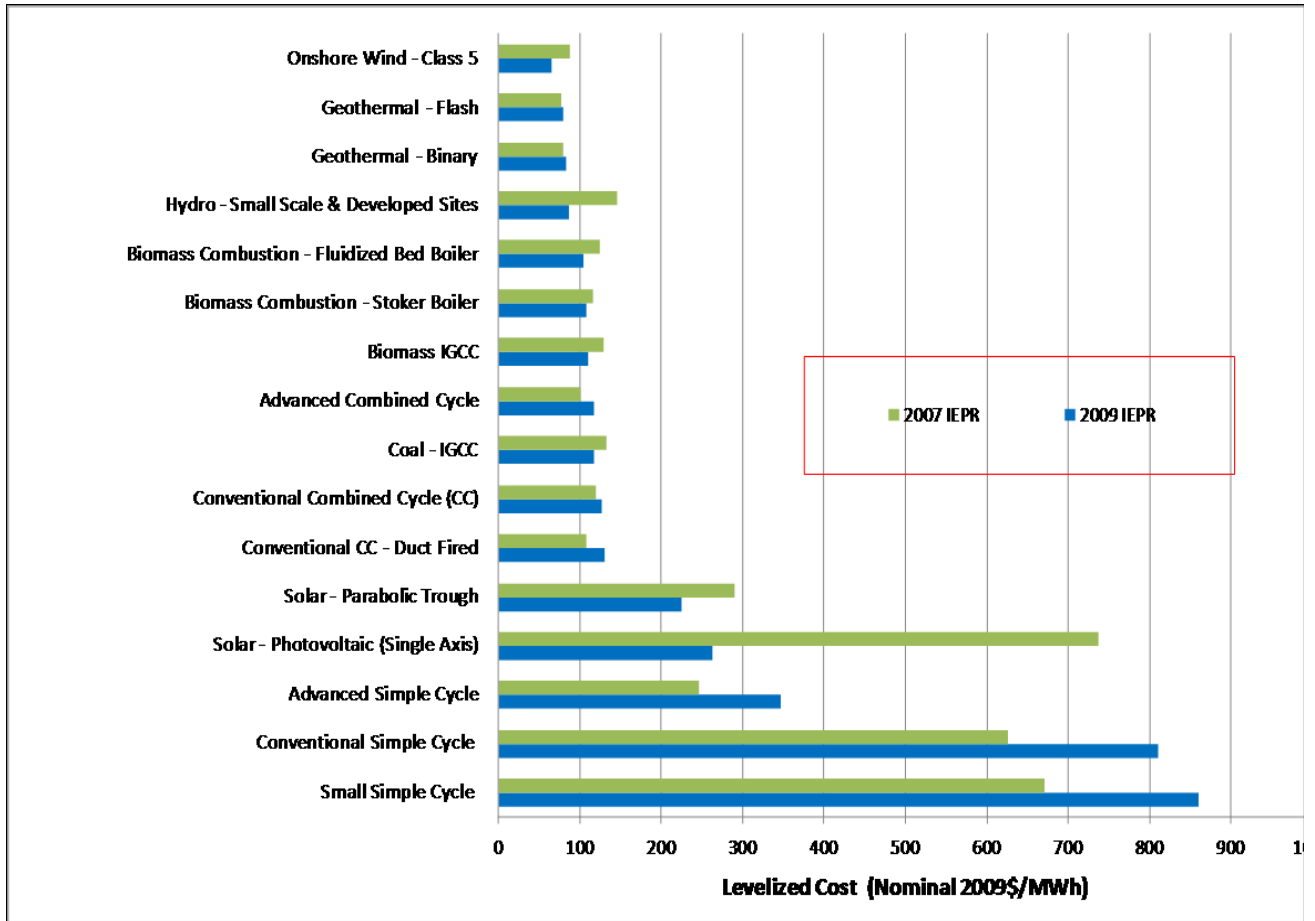
The levelized costs in this Draft Report were developed using the Energy Commission’s staff cost of generation model (Model). The Energy Commission’s Model was first used to produce cost of generation estimates for the 2003 Integrated Energy Policy Report (2003 IEPR), which at that time consisted of 25 separate models. Due to the usefulness of the resulting cost estimates and many requests for this type of information, the staff revised the Model to be more compact, accurate and user-friendly. Staff combined the 25 separate cost of generation models of the 2003 version into one Model with drop-down menus. In addition, the Model has been completely reorganized to make it more flexible and more transparent.

A “levelized cost” is the constant annual cost that is equivalent on a present value basis to the actual annual costs, which are themselves variable. This annualized cost value allows for the comparison of one technology against the other, whereas the differing annual costs are not easily compared. The Report looks at a range of fixed and variable cost components including: capital and financing; insurance; ad valorem; fixed O&M; corporate taxes; fuel costs and variable O&M.

There are numerous studies that provide levelized costs estimates for individual generation technologies, but it is difficult to compare the merit of these different estimates without understanding the underlying assumptions. Since plant operations and the financial characterizations can vary, these also produce significantly different levelized cost estimates. It is important to have a consistent set of assumptions to be able to compare the merits of each generation technology. The numerous variations with these input assumptions will result in range of levelized cost estimates for each technology. A single set of conditional assumptions, that results in single-point estimates, will not reflect actual market dynamics and the possible range of costs when evaluating resource development options. The Energy Commission staff has found that actual construction costs are typically higher than developer claims and will vary from case to case.

The Report summarizes average levelized costs for a whole range of technologies including natural gas, coal biomass, geothermal, hydro, solar and wind technologies. And the results? The costs of generating electricity from several renewable energy sources (most notably Class 5 onshore wind resources and geothermal resources) are extremely competitive with more traditional, fossil-fuel based sources of energy production.

Comparison to the 2007 IEPR Average Case –Start Year = 2009:



In the public presentation of the Draft Report results, the CEC offered a number of cautions about use of the Report:

1. Location matters! Transmission and interconnection costs are highly variable and site specific, but generic regional assumptions are required for planning
2. Costs do not equal prices!!! Market contract terms will reflect conditions, such as price floors imposed by renewable portfolio standard (RPS) requirements
3. The cost analyses do not include additional benefits, emission effects, etc. and can only be assessed with system modeling
4. Cost analyses changes rapidly, and there was much discussion about whether the CEC should make the levelized cost analyses a continual effort, rather than something that occurs every two years.

For parties interested in commenting on the Draft Report, written comments be submitted until 5:00 p.m. on September 2, 2009. Please include the docket number # 09-IEP-1E and indicate "Present and Future Central Station Renewable Plant Costs" in the subject line or first paragraph of your comments. Please hand deliver or mail an original copy to:

California Energy Commission
Dockets Office, MS-4, Re: Docket No. # 09-IEP-1E
1516 Ninth Street, Sacramento, CA 95814-5512

Article by John McCaull, GEA Western States Representative

California Congressman Introduces Private Activity Bonds Legislation for Renewable Energy Projects

August 28, 2009. Congressman Mike Thompson from California (D-CA, 1st District) has introduced H.R. 3525 to extend tax exempt bond financing to renewable energy facilities, conservation and energy efficiency projects and other specified greenhouse gas emission technologies. As Congressman Thompson said in a release accompanying the legislation “Private Activity Bonds present an opportunity to break through one of the toughest barriers to clean energy investment by providing longer-term and lower-cost financing for renewable energy projects.”

Tax exempt bond financing is a low cost method of financing a project or manufacturing facility with interest costs typically running a few percent less than commercial loans. Lower cost financing can encourage rapid deployment and help make desirable projects more viable. Private activity bonds can provide long term financing (up to 30 years) through the tax exempt bond market compared to the 10 to 15 year maturities more commonly seen in the taxable market.

Current law provides tax exempt bond financing for certain publicly beneficial private activities ranging from airport facilities to solid waste facilities, and including the financing of garbage trucks and collection bins. This proposal would expand current law to allow private companies to utilize both tax exempt bonds and federal tax credits for renewable energy “resource facilities”, energy efficiency improvements, demand side management, energy storage, electric transmission, smart grid, water conservation, zero emission vehicle projects and manufacturing facilities. Under the proposed legislation, “Renewable energy resource facilities” include solar, wind, or geothermal energy, marine and hydrokinetic energy, incremental hydropower, biomass and landfill gas production facilities.

With the support California State Treasurer Bill Lockyer, Congressman Thompson is touting H.R. 3525 as a means to immediately spur “green technology investment.” Treasurer Lockyer stated that “Expanding the benefits of tax exempt bond financing to privately developed renewable technologies is a win-win for California’s environment and economy. We’ll spur green projects that produce alternative energy sources and stimulate the economy by creating green-collar jobs.”

”We need to act quickly to change our methods of energy consumption,” said Thompson. “Failing to act now will cost us trillions of dollars, both in spending on foreign oil, and on combating the effects of climate change. By making it easier for local governments and private entities to finance alternative energy projects, we can help move our economy towards a greener future.”

Article by John McCaull, GEA Western States Representative

California: Utilities, Groups at Odds Over Sources for Renewable Energy

From Sustainable Energy Network: News Stories

California's electric utilities have accepted that they'll be required to get a third of their power from renewable sources by 2020 but are battling environmental and labor groups over where it's going to come from. Utilities want relatively free access to renewable power generated far beyond the state's borders, in places like Wyoming and British Columbia. Pacific Gas and Electric Co. is interested in buying huge amounts of hydroelectric power generated on rivers in British Columbia. Labor and environmental groups are they're pushing for legislation that encourages production capacity to be built in California. Getting to 33 percent renewable power on the state's current path would bump up costs an additional 7 percent, or 1.1 cents per kilowatt-hour. Using more out-of-state power might cut that premium to 0.6 cents per kilowatt-hour, while building more small-scale projects that don't need long-distance transmission might increase it to 2.3 cents.

See <http://www.sacbee.com/business/story/2133283.html>.

California: Public Utilities Commission Proposes New Feed-in Tariff Program

Sustainable Energy Coalition/SUN DAY Campaign: News Stories

The California Public Utilities Commission has proposed a new program to significantly increase the amount of solar energy installed in the state. The program would require utilities to purchase 1-gigawatt (GW) of electricity from mid-size solar and other renewable energy technologies. As proposed, renewable energy systems between 1 megawatt (MW) and 10 MW in size that deliver electricity directly to the utility grid can qualify for the new program. Contract prices will be set through a competitive auction in order to accurately reflect current solar market conditions. By using a market mechanism to determine the contract price, the CPUC's program will use competition to establish a price that is both sufficient for project development and protective of ratepayers.

See <http://www.renewableenergyworld.com/rea/news/article/2009/08/cpuc-proposes-new-feed-in-tariff-program>.

International News

Australia: Study Confirms Commerciality of Penola Geothermal Project

A study by GeothermEx concluded the commercial attractiveness of the Panax Geothermal Penola Project, according to proactiveinvestors.com.au. The positive findings reflected that the project can produce zero emissions, can provide 24-hour-a-day baseload power, is on a net plant, is located within a few kilometers of the national grid, and is at a long range marginal cost of A\$51 per MWh (pre-finance) and A\$83 per MWh (post-finance assuming a 10% cost of equity). The first production well, Salamander-1, is scheduled to begin drilling during October 2009. The Penola project is planned in a three-stage development process.

See <http://www.proactiveinvestors.com.au/companies/news/2322/panax-geothermal-study-confirms-commerciality-of-penola-geothermal-project-to-supply-power-2322.html>.

Australia: Geodynamics Habanero 3 Well Delayed

Geodynamics Ltd.'s Habanero 3 well could be delayed into next year, according to the *Wall Street Journal*. Operational deficiencies were uncovered when a high-pressure lead of water and steam occurred in April. Investigation has found the incident occurred due to chemicals in the well reacting with steel under fluctuating temperatures.

The company is revising the work program. "These activities will take at least eight weeks and may lead to a revision of the previously indicated delay of 6-9 months in the commissioning of the 1-MW pilot plant," the company told press. "The company believes that the incident will not have a material impact on its long-term strategy for large scale geothermal power generation in the Cooper Basin."

"Certainly drilling for geothermal in Australia is pretty technically challenging because of the pressure that's involved and the greater depth of drilling," Graeme Bethune, head of energy consultancy EnergyQuest told press. "So I'm sure this incident's all part of the R&D process of trying to develop this energy source in Australia."

See <http://online.wsj.com/article/BT-CO-20090821-701485.html>.

Chile: Mining Ministry Receives 59 Bids for Geothermal Exploration Concessions

The Mining Ministry received a total of 59 bids from nine companies for 19 geothermal licenses, according to the *Wall Street Journal*. The potential development is expected to attract investments upwards of \$120

million. Bidders include power generator Colbun, state oil and gas company Empresa Nacional del Petroleo in partnership with Italian utility Enel SpA, Canadian firm Magma Energy Corp., and Australia's Hot Rock Ltd.

See <http://online.wsj.com/article/BT-CO-20090826-709622.html>.

Malaysia: Sabah Studying Geothermal Potential in Tawau

Sabah is studying the geothermal production potential of a hot spring in Tawau, according to thestar.com.my. Deputy Chief Minister Datuk Peter Pang told press the idea is to generate 100 MW of electricity. He said they are studying how to develop the energy source with minimal damage to the Adrassy forest, where the hot spring is located.

See <http://thestar.com.my/metro/story.asp?file=/2009/8/26/southneast/4576817&sec=southneast>.

Nicaragua: Polaris, Nicaragua Reach Agreement on Geothermal Expansion

Polaris Geothermal Inc. and the Ministry of Energy and Mines of Nicaragua reached an agreement to begin construction of the Phase I-MCT expansion to its San Jacinto-Tizate geothermal project by October 31, 2009. The 24-MW plant will be expanded to 34 MW and work will take 18 months. The Phase II expansion to 72 MW drilling will commence at the end of June 2010 and will begin commercial operation at the end of March 2012.

See <http://www.energycurrent.com/index.php?id=3&storyid=20154>.

Notices

Closing This Week

DOE Small Business Research Programs Funding Opportunity Announcement (September 4)

New This Week

GEA Transmission Comments Available Online

The *Geothermal Energy Association Comments on RETI Draft Final Phase 2a Report* is now available on GEA's Web site at <http://www.geo-energy.org/publications/reports.asp>.

Reminder: GEA Preparing New Industry Update to be Released Fall 2009

GEA is beginning to collect information for its Fall 2009 Geothermal Industry Update. GEA is looking for information on geothermal projects under development in the US. The past GEA Industry Updates have been important sources of information for many people interested in the geothermal industry from policy makers to financiers. To make sure your project is included, or to make sure we are reporting accurate information about your project, contact Dan Jennejohn by emailing Danj@geo-energy.org or calling 202-454-5261.

Reminder to GEA Members: GEA Board Nominations and Annual Meeting

GEA Members are encouraged to nominate individuals from GEA Members companies they wish to be considered to be nominated for election to the GEA Board of Directors. The GEA Board has appointed a nominating Committee comprised of Tom King of US Renewables Group, Jonathan

Weisgall of MidAmerican Energy, and Paul Thomsen of Ormat. Those interested in proposing a nominee can contact Karl Gawell or Kathy Kent at GEA (karl@geo-energy.org, kathy@geo-energy.org) with their suggestions. Also, the GEA Annual Members Meeting is being scheduled for Saturday, October 3, from 1pm-5pm at the Peppermill in Reno, Nevada. More information to come about the agenda for the meeting.

Other Notices Available on GEA Web Site

Notices from past weeks are now available on GEA's Web site:

- GEA Preparing New Industry Update to be Released Fall 2009
- GEA Members: GEA Board Nominations and Annual Meeting
- Labor Department Offers \$500 Million for Clean Energy Job Training (August–October)
- Comment Period Open for Amendments to Loan Guarantee Legislation (early September)
- Call for Papers, Materials Challenge 2010 (September 21)
- EPA Extends Comment Period for Renewable Fuel Standard Program (September 25)

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

Employment Opportunities

Employment Opportunities Available on GEA Web Site

Open Employment Opportunities are now available on GEA's Web site:

Vice President of Engineering, Ram Power, Inc.

Drilling Program Manager, Major Geothermal Power Company in CA

Senior Director, Business Development, Major Geothermal Company

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

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

Requests for Proposals (RFPs)

Closing This Week

Renewables, Architect of the Capitol (September 1)

Community Renewable Energy Deployment, Recovery Act (September 3)

Energy Training Partnership Grants, Recovery Act (September 4)

Other RFPs Available on GEA Web Site

Requests for Proposals listed in past weeks are now available on GEA's Web site:

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

- RFP for Contribution of Cost Share for Transportation Related Recovery Act RFPs, CEC (Due Dates Vary)
- RFP for Technology and National Research Priorities, Recovery Act (Ongoing)
- Renewables, Western U.S. (September 10)
- RFP for Environmental Implications of Emerging Technologies, NSF (September 15)
- RFP for Energy for Sustainability, National Science Foundation (September 15)
- RFP for Thermal Transport Processes, National Science Foundation (September 15)
- Rural Community Development Initiative (September 24)
- RFP for Renewable Energy Resources, NV Energy (October 2)
- Local Energy Assurance Plans, Recovery Act (October 8)
- RFP for National Lab Partnerships for Energy Research, DOE (November 9)
- RFP for Renewable Energy Resources, Los Angeles (March 11, 2010)
- RFP for Smart Grid Investments, DOE, American Recovery and Reinvestment Act (March 31, 2010)

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

Upcoming Events

GEA Events

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>.



Other Events Available on GEA Web Site

Upcoming Events listed in past weeks are now available on GEA's Web site.

- CanGEA Investment Workshop and Networking Reception, September 9 (Toronto, Canada)
- Geothermal Symposium, Trinity University, September 19 (San Antonio, TX)
- Renewable Energy Indonesia 2009 Trade Show, October 14–17 (Jakarta, Indonesia)
- SMU Geothermal Conference, November 3–4 (Dallas, TX)
- XVII Annual Congress and Annual Assembly, Mexican Geothermal Association, November 13 (Mexico)
- 31st New Zealand Geothermal Workshop 2009, November 16–18 (Rotorua, New Zealand)

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



GEA Weekly Update

A newsletter for the geothermal industry written by Leslie Blodgett and Karl Gawell. For more information contact GEA at: 209 Pennsylvania Avenue SE, Washington, D.C. 20003. Phone: 202-454-5261; Fax: 202-454-5265; E-mail: research@geo-energy.org