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DOE To Launch RFP

The U.S. Department of Energy is expected to issue solicitation for its delegated lender program.

See story, page 2

At Press Time

Abengoa Scouts Debt 2

In The News

Advisors To Pitch Infigen Wind Sale 3

Dallas Wind Co. Targets Sale 3

Calyon Focuses On LatAm 3

BofA Banker Switches To Macquarie 3

Solar Co. Snags Ex-CIT Financier 4

Banks Back OPA Bids 4

National Wind Unit Hires Specialist 4

GDF Circles Conn. Biomass 4

Corporate Strategies

Rural Lender Pays Down Debt 5

Kinder Morgan Lands Low Pricing 5

PPL Takes Pricier Revolver 5

Third U.S. Carbon Finance Forum

Markit Eyes Carbon Indices 6

Utilities' Carbon Opinions Differ 6

Carbon Offset Fund Awaits Law 7

Departments

Generation Auction & Sale Calendar 8

Project Finance Deal Chart 10

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CALPINE SCOUTS MARKET FOR STEAMBOAT REFI

Calpine is in the market with an estimated \$465 million refinancing of debt on two power plants in its Calpine Steamboat Holdings subsidiary. The deal is being led by Calyon, WestLB and CoBank and the three leads just started contacting banks to get involved.

The final terms of the deal are still being worked out, notes a deal watcher, but it's likely that the loan will be priced 300 basis points over LIBOR and step up by one-eighth every two years over an eight year period.

(continued on page 11)

BANKS CIRCLE LS PURCHASE OF DYNEGY ASSETS

LS Power is working with banks to take tickets in two club deals with a combined \$750-800 million value supporting LS Power's purchase of nine Dynegy assets. "We are going with pretty conservative financing structures," says Joe Esteves, cfo in New York. "Because of the way the market is, we would rather the deals be easy to oversubscribe." He notes that the company could also fund the acquisition with cash on hand if pricing and structures are unattractive, but he declined comment on where the company would draw the line on those

(continued on page 11)

CANADIAN FIRM SHOPS FOR GEOTHERMAL PARTNERS

Sierra Geothermal Power is in negotiations with up to five potential partners for three fully permitted, drill-ready sites in Nevada after last fall's financial meltdown scuppered contracts it was ready to sign. The total cost of the sites is \$765 million. The Vancouver-based developer expects to sign contracts by the end of the year with undisclosed companies, says John McIlveen, research director at Jacob & Co. Securities, the investment bank running the auction.

(continued on page 11)

U.S. Carbon Finance Forum

CARBON MARKET RUNNING IN PLACE WITHOUT LEGISLATION

Participants in the carbon emissions market tried to chart a course to navigate pending carbon legislation at the Third U.S. Carbon Finance Forum held last week at the Metropolitan Club in New York. Without any laws governing carbon emissions and unsure who would regulate emissions trading, would-be players focused on what the market would need to be successful.

The Waxman-Markey Bill, known as The American Clean Energy and Security Act, passed the U.S. House of Representatives in June. The bill calls for establishing a cap-n-trade system to curb the amount of greenhouse gasses emitted into the atmosphere. The U.S. Senate is expected to debate the bill in coming months.

(continued on page 6)

Check www.iipower.com during the week for breaking news and updates.

Delegated Lender RFP Expected To Launch

The U.S. Department of Energy is expected to release a request for proposals as soon as today that allows banks to submit applications to qualify for its delegated lender program. Lenders, for their part, are waiting to see if the DOE has made requested amendments to proposed guidelines for the program when it launches the solicitation. "Banks are anxious to see where this solicitation is going to end up. There's a lot of unanswered questions about what the banks would have to do," says a project financier in New York. A department spokesman did not return calls.

Lenders are foremost concerned about matching the tenors on DOE-guaranteed tranches and the government possibly having first lien on the assets. "If the government has a first lien on these deals, it would be a fatal flaw," the financier notes. The department had also reportedly proposed stretching tenors out to almost 20 years on guaranteed tranches, while lenders will not go beyond 7-8 years tenors.

Under the program, banks will act as underwriters for renewable projects as part of the American Recovery and Reinvestment Act of 2009. The solicitation would require banks to qualify for the program first, before they submit applications for funding projects, which could be singular or bundled together. The qualification process is expected to be a relatively easy one-page process, says **Ken Hansen**, partner at **Chadbourne & Parke** in Washington, D.C., adding banks would have likely have a 60-day deadline to close a financing once approved.

The DOE has been awaiting approval for the program from the **Office of Management and Budget**, which has been skeptical of giving the department financial authority in the past, Hansen notes. The OMB has had the proposal since last month, and it is largely thought that it will approve the program, which would trigger the solicitation. Calls to the OMB in Washington, D.C., were not returned by press time.

Abengoa Seeks For Mexican Plant Financing

Abengoa Mexico is in talks with banks for a club deal of roughly \$450 million to back its \$633 million, 300 MW cogeneration plant in Tabasco, Mexico. The subsidiary of Spanish developer **Abengoa** faces a penalty fee from offtaker **Petróleros Mexicanos** if it does not secure financing by December, a deal watcher notes, adding the balance of the project costs will likely be funded with equity from the parent company. A spokeswoman in Seville, Spain did not return calls and the size of the penalty could not be immediately learned.

The sponsor has reportedly been in talks with **Banco Santander**, **Barclays**, **Calyon**, **Sumitomo** and **WestLB** about financing the facility, which is slated for operation in 2012. Abengoa Mexico beat out roughly 20 other bidders for the 20-year PPA from Pemex earlier this year (PFR, 1/9). Bank officials either declined to comment or did not return calls.

Banobras, the **Public Works and Services National Bank of Mexico**, has underwritten the deal in order to guarantee the pricing of the bid during the evaluation process. Abengoa and Banobras are looking to bring commercial banks into the deal, as Banobras does not want to keep so much exposure to a single project on its books. The tolling arrangement in the deal alleviates any fuel risk. That, coupled with and the credibility of the offtaker, makes the deal attractive to lenders, another project financier notes, adding it will likely have a mini-perm structure.

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Institutional Investor NEWS
INTELLIGENCE FIRST

Infigen Wind Portfolio Sale Ready To Launch

Teasers for the sale of **Infigen Energy's** 1.1 GW of wind assets will be dispatched in the next two weeks with preliminary interest in the portfolio from utilities, private equity firms and infrastructure funds. **UBS** and **Marathon Capital** are leading the deal. Both declined comment.

The company is divesting its U.S. and European assets to focus on investment in wind development in Australia and New Zealand, says a deal watcher. "Infigen, far and away, is the largest portfolio of pure play spinning wind assets to hit the U.S. market in a number of years," the deal watcher says.

The assets include 18 wind farms across nine U.S. states that are 80% contracted and were formerly part of **Babcock & Brown Wind Partners**. The turbines used in the portfolio include **Gamesa**, **Siemens**, **Mitsubishi**, **Vestas** and **General Electric**.

Infigen spun off from Babcock & Brown Wind Partners in March.

Wind Developer Close To Sale, Moves To Consultancy

WindRosePower is closer to selling its 250 MW wind project that has been on the block for more than a year so the firm can move from developing projects to consulting on them. The Dallas-based developer is in discussions with a handful of interested parties, and could have a buyer by year end, says **Jennifer Defenbaugh**, principal and founder.

Too little cash is ultimately driving the developer from greenfield development to consultancy. After this project is off their hands, the firm is planning to scout wind sites across the country for a foreign entity trying to break into the U.S. wind market, says **Henriëtte Boom**, founder and partner. She declined to name the firm.

The lack of transmission lines is currently an obstacle to get buyers for the project, but **Oncor** and **Electric Transmission Texas** plan to have new lines installed in the area by 2013, which is the target date for having the project operational. Interconnection is expected this year and WindRose is still exploring offtaker options. "We could build the farm right now but because there are so many restraints with transmission lines, it wouldn't be at all prudent. We'd be losing money. We don't have a big enough balance sheet to take it to completion—we need someone with a bigger purse," says Defenbaugh.

WindRose's three partners have sunk in almost \$500,000 of their own money into the project, including repurchasing the project in 2007 after an undisclosed buyer decided to leave the wind industry (PFR, 9/19). Defenbaugh declined to say how

much the firm paid for it.

John Deere Renewable Wind bought two of WindRose's Texas greenfield projects in Swisher County, at 80 MW and 120 MW, but is not interested in this project because it's too far along, says Defenbaugh.

Calyon Shuffle Highlights LatAm Focus

Carlos Milans Del Bosche, formerly head of leveraged finance for Calyon in Madrid, has moved to the bank's New York office to strengthen ties with Spanish power and infrastructure clients in Latin America. "I'm here to develop our relationships with our Spanish sponsors in Latin America, who are becoming very active in Latin America," Milans Del Bosche says. He reports to **Georges Romano**, managing director and began in the newly created position this summer.

"[Romano] is doing a lot of business in LatAm; Calyon is probably the leader down there in project finance. It makes sense that he would add on to that group," says a project financier in New York. Romano did not immediately return calls.

Calyon was one of a seven-bank club to wrap \$680 million financing backing the **Mitsui**-led consortium's 500 million cubic feet per day re-gasification terminal in Manzanillo City, Mexico (PFR, 9/9). Spanish oil and gas company **Repsol** has a 15-year contract valued at \$15 billion to supply gas to the facility. The identity of Calyon's Spanish clients active in Latin America could not be learned.

Macquarie Snares BofA Banker

Peter Kind, former managing director and head of power corporate investment banking at **Banc of America Securities**, has joined **Macquarie Capital** as senior managing director of the U.S. power, utilities and renewables group. Kind started in the newly created role in New York last Tuesday and will report to **Nick Butcher**, head of infrastructure and utilities in the U.S. and Latin America.

Kind will work with merchant power producers and focus on mergers and acquisition advisory, and finance on the buy and sell side, capital markets and corporate finance, a spokesman notes. **Alan James** and **Rob Kupchak** are the other two senior managing directors in the group. He declined to make an official available for comment.

Prior to his four years at BofA, Kind was a senior member of the power team within **Citigroup's** global energy, power and chemicals group, serving as the team's co-head from 2003-2005. A BofA spokesman did not return calls and the status of Kind's former position, which he left in the summer, could not be learned.

Ex-CIT Banker Joins Solar Co.

Robert Sexton has taken over as director of project and structured finance for **Petra Solar**. He started in the new position last Tuesday. He joins from **Renewable Energy Finance**, an advisory boutique in New Jersey, where he worked in project finance. Prior to that, was a managing director in **CIT Group's** energy group in New York.

He reports to **Scott Weiner**, v.p. and general counsel at Petra. Sexton will help raise debt and equity for the company's internal financing needs as well as help the companies who purchase the technology scout for debt and equity to pay for it. He sees solar as a large growth area. "Solar is where wind was a few years ago," he told *PFR*.

The company, a solar panel developer with a smart grid technology, recently won a \$200 million contract from New Jersey's largest utility **Public Service Electric & Gas** to install solar panels on utility poles, and a \$2.9 million grant from the U.S. **Department of Energy** to work with different state utilities on installing its technology. The company is in discussions with other utilities to sell its technology though Sexton declined to give specific names.

Banks Line Up For OPA Bids

Lenders are lining up behind four companies vying for the contract to build and operate the **Ontario Power Authority's** more than \$1 billion, 850 MW Southwest Greater Toronto Area combined-cycle facility. "If our bidder falls through, hopefully we'll be able to jump onto the winner's band wagon," notes a project financier who is working with a sponsor to line-up financing.

The winner of the project will likely need more than \$800 million of debt for the project, and a deal will likely come to fruition this quarter with a wrap before year-end, the banker notes. "You give OPA greater comfort when you show up with big banks and big checks," he says.

Invenergy Canada Development Partnership, **Northland Power**, **Sithe Global Power** and **TransCanada** unit **Portlands Energy Center** are in the running for the contract to build the facility. The developers are looking to the coterie of Canadian lenders such as **Bank of Montreal**, **Royal Bank of Canada**, **Scotia Bank** and **Toronto-Dominion** and other banks such as **Royal Bank of Scotland**, **Société Générale** and Japanese lenders.

An OPA spokesman in Toronto says it will award a 20-year contract for differences, which mandates the utility to compensate the owner if the plant does not generate a certain

level of revenue, by month-end. The facility will go online by the end of 2013. Company officials and spokesmen did not immediately return calls.

Sithe had been on track to send out details on financing for its Mississauga, Ontario, Southdown project bid into the Southwest GTA call (*PFR*, 7/31). The status of that company's financing efforts could not be immediately learned.

Ohio Wind Co. Lands Real Estate Hire

National Wind recently hired **Bradley Norden** as a field specialist for its subsidiary, **Northwest Ohio Wind Energy**, which is developing a 300 MW community-owned wind project that is scheduled for completion before 2013.

Norden, who comes from a sales and real estate background, will work from a field office in Grover Hill, Ohio, to bring farmers on board to lease their land for the project. As with National Wind's community wind projects in other states, Ohio landowners will receive payments to house turbines on their property.

Northwest Ohio Wind Energy is one of 12 coalitions of investors, developers and community leaders managed by Minneapolis-based National Wind in the mid-west.

Norden declined to comment.

GDF Suez Eyes Connecticut Biomass Project

GDF Suez is reportedly in discussions with **Decker Energy** and **Plainfield Renewable Energy** about buying, or partnering on, a 30 MW woodchip biomass project near Plainfield, Conn. The Paris-based company is interested in buying the woodchip burning facility set for a first quarter construction date, says a deal watcher. The cost of the project could not be immediately determined.

"We've had a number of people approach us about this, we're getting people from Europe, America, utilities," says **Jon Pomerleau**, v.p. of Orlando-based Decker. "People who weren't interested in this project [in the last year] are now raising their eyebrows."

He declined to confirm whether GDF Suez was at the table. GDF declined to comment.

Decker, a biomass developer since 1982, is looking for strategic partners or buyers for the Plainfield project, which was selected as part of the **Connecticut Clean Energy Fund** renewable portfolio, says Pomerleau, declining to disclose companies.

Plainfield Renewable Energy declined to comment.

Corporate Strategies

Lender To Rural Utilities Issues Debt

National Rural Utilities Cooperative Finance Corp. closed the sale of two collateral trust bond tranches, totaling \$500 million, last Wednesday and will use the proceeds to pay down commercial paper.

A \$250 million tranche of three-year notes has a 2.625% coupon; the six-year tenor, of an equal amount, has a 3.875% coupon. The bonds are mortgage-backed.

Institutional investors, including insurance companies and pension funds, are buying the bonds, which were issued in three and six-year tenors, says **Josh Silverman**, director of term funding and risk management at the Herndon, Va.-based company. National Rural is a private lender for rural power cooperatives, utilities and transmitters that provides financing to supplement the U.S. Department of Agriculture's Rural Utilities Service, which offers capital for rural power projects.

Joint bookrunners **Deutsche Bank**, **RBS**, **UBS**, **Mitsubishi-UFJ**, **Mizuho** and **Scotia Capital** were chosen because all the banks are "active participants in our revolving credit facility and we value their underwriting skills," says Silverman. Other participating banks included **KeyBanc Capital**, **U.S. Bancorp Investments**, **Comerica Securities** and **PNC Capital Markets**. National Rural worked with several of the banks on a \$1 billion, 364-day revolving credit facility earlier this year (PFR, 3/20).

Kinder Morgan Issue Swoops On Improving Markets

Kinder Morgan Energy Partners and joint venture partner **Energy Transfer Partners** tout improving credit markets as the reason for low pricing with their \$800 million issue of senior notes.

The JV partners priced \$450 million of 6.7%, 10-year notes and \$350 million of 5.45%, five-year notes in a 144A private placement on Sept. 9. "It's representative of the credit markets having improved dramatically over the last 18 months. Pricing would have been more than double a year ago," says a deal watcher. The JV partners closed the issue last Monday.

The partners did a private placement because as a JV, they are a private entity and therefore cannot do a public listing, the deal watcher notes. The more than 50 investors in the issue included insurance companies, fund managers and pension funds, he adds.

Proceeds from the deal will refund a \$1.4 billion revolver that the JV used to fund construction of its 507-mile Midcontinent Express natural gas pipeline. The project stretches from Bennington, Okla., to Butler, Ala., and went online in August, prompting the partners to term-out the debt on the facility, which expires in 2011. A Kinder Morgan spokesman declined to

comment, and an ETP spokesman did not return calls.

Deutsche Bank is left lead on the issue and **Morgan Stanley** and **Royal Bank of Scotland** are joint bookrunning managers on the deal. Deutsche Bank was picked for the deal because of its experience with the \$375 million 144A it carried out for **CenterPoint Energy** and **Spectra Energy's** Southeast Supply header (PFR, 8/21), the deal watcher notes. Deutsche Bank and **RBS** are also leads on the revolver, along with **Bank of Tokyo Mitsubishi-UFJ** and **DNB Nor**.

PPL Swallows Price Increase On Rollover Of Pre-Lehman Facility

PPL Energy Supply has finalized a 364-day, \$400 million revolving credit facility for almost double the price of the 364-day, \$385 million revolver it will replace. The company was able to get better pricing on its 2008 agreement because it finalized the deal on Sept. 10, just three business days before **Lehman Brothers'** bankruptcy filing sent the credit markets into a deep freeze. "We had no idea of the Lehman bankruptcy at that time... We got in last year just before the markets shut down on credit," says a spokesman in Allentown, Pa. He declined to make a financial official available and calls to **Jim Abel**, treasurer, were not returned.

According to documents filed with the U.S. Securities and Exchange Commission, the new facility is priced at 250-400 basis points over LIBOR, a jump from the 100-200 bps price of the last year's revolver, which expires this month. The pricing "was within current market parameters for PPL Energy Supply," the spokesman says in response to whether the company is satisfied with the pricing. The pricing on the loans is based on a grid tied to the credit ratings assigned by **Fitch Ratings Service**, **Moody's Investors Service** and **Standard & Poor's**, a standard methodology for these types of facilities, says **Laura Schumacher**, v.p. at Moody's.

The latest 364-day revolver was fully subscribed thanks to improving conditions in the credit markets says the spokesman, adding the company had aimed for \$400 million with the 2008 facility but fell short due to the onset of the financial crisis. Filings with the SEC indicate the company will use the revolver to back stop its commercial paper program and to issue letters of credit. PPLES pulled its \$500 million CP program (PFR, 2/6) and the spokesman says the company will review the market to see if it might resume the CP program if its credit ratings improve from S&P's A-3 to A-2.

Wachovia is the administrative agent on the facility and **Banc of America Securities**, **JPMorgan** and **Wells Fargo** are joint lead arrangers.

Third U.S. Carbon Finance Forum

*Questions about the details surrounding pending U.S. carbon legislation, what constitutes a carbon offset and who will regulate a carbon market swirled among the roughly 100 attendees at the **Third U.S Carbon Finance Forum**. Conference goers were treated to swanky surroundings at the **Metropolitan Club** in New York on Sept. 15-16. Managing Editor **Jeanine Prezioso** filed these stories.*

CARBON MARKET

(continued from page 1)

One key point discussed at the conference was whether a carbon market might be forced onto an exchange amid talk of more transparency throughout commodities markets. That would create a problem, said **Jason Patrick**, v.p., emissions trading, **Bank of America-Merrill Lynch** in New York. "The [over-the-counter] market is crucial not only for carbon but other commodity markets," Patrick said during the "Carbon Trading and the Secondary Carbon Markets" panel discussion. "It's extremely difficult to hedge on an exchange. Project developers need to hedge."

Oversight was another overriding issue with traders, utilities and project developers wondering aloud which government agency would take on regulation. **Sam Napolitano**, director, clean air markets for the U.S. **Environmental Protection Agency**, speaking on the panel, "Carbon Capping – The Challenges of Implementation and Oversight" on Wednesday, called for a "Renaissance regulator" who understands trading

commodities, derivatives and hedging, along with the intricacies of the carbon market. When pressed about how the EPA might regulate the carbon derivatives market, his first reply was, "I don't know anything about derivatives. That's way over my head."

The day before, **Bart Chilton**, commissioner with the U.S. **Commodity Futures Trading Commission**, did not provide details of how the market might be regulated, but said he expects the carbon market to yield \$2 trillion in transactions in the fifth year. "It will be larger than the crude oil market," he told the audience, as the keynote speaker on the "Carbon Trading and the Secondary Carbon Markets" panel. Chilton expects a version of the carbon legislation to pass in the next six months. "I'll be coming to conferences talking about implementation of carbon legislation instead of carbon legislation," he said. He then went on to drum up support to get the legal standard changed to prove commodity market manipulation cases, noting that the commission has only once prosecuted and won such a case in its 35-year history.

—*Jeanine Prezioso*

Markit Considers Carbon Derivatives Indices

Markit Environmental Registry expects to roll out more indices on carbon trading including derivatives for the voluntary carbon market. The indices are in the works and follow the release of a family of indices tracking companies with carbon management programs in June in conjunction with the **Carbon Disclosure Project**.

"We're looking at creating a number of tools for people in the marketplace to facilitate trade [in the voluntary carbon market] via indices," **Nicolai Pamukoff**, v.p., told *PFR* on the conference sidelines. "We're offering price discovery for the voluntary carbon credit market."

Markit completed in July its acquisition of **TZ1 Registry**, which has listings on the world's voluntary carbon market data to form the environmental registry. The company has no imminent plans to launch an index, "but there's a lot in the pipe," Pamukoff says.

The data provider already gathers data from project developers who are looking to "showcase their credits," Pamukoff says. "We're a hub," he says.

The idea is to provide market transparency as well as to

avoid double counting of credits and the prevention of recycling used credits.

Utilities Mixed On Carbon

Regulated utilities are expected to take less of an economic hit from carbon legislation than their unregulated peers since they can pass the cost of carbon through to ratepayers. But even so, **American Electric Power**, the largest coal utility in the U.S., would like to see carbon allowances, or the amount of carbon a utility is allowed to emit by law, phased out over a longer period of time. The pending Waxman-Markey Bill sets the phase out to 2030, said **Bruce Braine**, v.p., strategic policy analysis speaking during a utilities panel discussion. A longer phase out "would mean lower rate impacts for customers," Braine said.

The company also likes the idea of using carbon offsets to mitigate its emissions. "We're bullish on offsets," Braine said. "It's a good way to reduce emissions at a low cost." Offset projects include things like landfill methane and forestry projects.

Jonathan Weisgall, v.p., regulatory and legislative affairs for **MidAmerican Energy**, part of **Berkshire Hathaway**, whose company owns 50% coal generation and 20% renewables, said

Third U.S. Carbon Finance Forum (cont'd)

he prefers a carbon tax to cap-n-trade. "A carbon tax can be made neutral." Transmission is still an issue for renewable power, he added. "If we don't federalize transmission, we're not going to get anywhere with renewables."

NRG Energy took an alternate stance on the pending legislation. "We supported the Waxman-Markey Bill," said **Steve Corneli**, senior v.p. of market and climate change policy. "We want the regulatory certainty that the EPA will not have need to come in and regulate GHG."

During a panel discussion the following day, **Sam Napolitano**, director of clean air markets for the U.S. **Environmental Protection Agency**, told the audience that the EPA is ready to regulate carbon if the legislation does not pass. "We're mindful of implementing the Clean Air Act if we have to," he said.

Carbon Offset Fund Waits On Gov't Guidance

Pending U.S. carbon legislation has yet to define in detail what kinds of technologies and projects will count as carbon offsets. But some companies, such as asset management firm **CE2 Capital Partners**, are still plunging into the sector ahead of set guidelines.

The four-year old company is focused on the environmental commodity market and last year launched a fund, **CE2 Carbon Capital**, that focuses on building a portfolio of carbon offset technologies and projects. Investing in the fund itself could be a carbon offset for a business that needs it, **Greg Arnold**, managing partner in Solana Beach, Calif., told *PFR* on the conference sidelines. "That's the idea," he said.

Projects such as landfill gas, forestry and manure management were thrown around during the conference last week. Arnold did not go into specifics of what types of carbon offset projects the fund is invested in, but said through its partner in the fund, private equity shop **Energy Capital Partners**, it is invested in some wind projects.

Arnold spoke during the panel discussion, "The U.S. Offsets Market: From Precompliance to Mandatory," during which he talked about the regulatory uncertainty of the carbon trading market as well as uncertainty surrounding which projects will count toward carbon offsets. "What types of offsets will count? What types of technology?" he posed to the audience.

Part of the problem with trading carbon, Arnold said is, as in the natural gas market, the basis differential, or how to mitigate the difference in the price of carbon among markets. "There's an atmosphere in Congress that doesn't believe [commodities] markets can function on their own, that all transactions are going

to have to be cleared through an exchange but long-term bilateral contracts cannot be cleared on an exchange. That will dissuade capital from going into the space."

They said it....

"Everyone wants to go to heaven and nobody wants to die."—**Jonathan Weisgall**, v.p. regulatory and legislative affairs, **MidAmerican Energy**, part of **Berkshire Hathaway**, on the difficulty of achieving greenhouse gas limits through the current pending carbon legislation.

"If we don't pass Waxman-Markey, the other results will be so economically and environmentally disappointing that they will eventually pass something like Waxman-Markey but at a later date and with a different administration."—**Steve Corneli**, senior v.p., market and climate policy for **NRG Energy**, told audience members, in the minority of utilities supporting the current legislation.

"It's like dancing on the head of needle."—**Greg Arnold**, managing partner of **CE2 Capital Partners**, an asset management firm with interests in carbon offsets, on figuring out which projects and technologies the government will condone for carbon offsets.

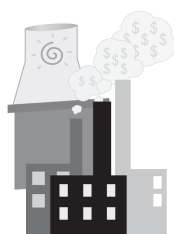
"If you think the SO2 trading program is like planet Earth, then the carbon program is like Jupiter."—**Sam Napolitano**, director, clean air markets for the U.S. **Environmental Protection Agency**, on the difference in size of the two programs.

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Generation Auction & Sale Calendar

Following is a directory of ongoing generation asset sales. The accuracy of the information, which is derived from many sources, is deemed reliable but cannot be guaranteed. To report new auctions or changes in the status of a sale, please call Jeanine Prezioso at (212) 224-3226 or e-mail jprezioso@iinews.com.

Seller	Plants	Location	MW	Plant Type	Advisor	Status/Comments
AES	Warrior Run	Cumberland, Md.	205	Coal	Goldman Sachs	Shopping PJM assets (PFR, 5/21).
	Red Oak	Sayreville, N.J.	832	Gas		
	Ironwood	South Lebanon Township, Pa.	720	Gas		
	Amman East	Jordan	370	Gas	Citi, HSBC	Quietly marketing Middle East portfolio along with a few one-off assets (PFR, 2/23).
	Barka	Muscat, Oman	456 (35%)	Gas		Bids submitted by around 10 parties for portfolio (PFR, 6/15).
	Ras Laffan	Qatar	756 (55%)	Gas		
	Lal Pir	Punjab, Pakistan	362 (55%)	Oil		
	Pak-Gen	Punjab, Pakistan	365 (55%)	Oil		
	Cartagena	Cartagena, Spain	1,200	Gas		
	Kilroot	near Carrickfergus, Northern Ireland	560	Coal and Oil		
	Various	U.S.	1,174	Wind	N/A	Looking for joint venture partner for wind business (PFR, 3/16).
	Hulunbeier	Inner Mongolia, China	50 (49%)	Wind		
	InnoVent	France	30 (40%)	Wind		
	Hargicourt	Hargicourt, France	12 (40%)	Wind		
	Hescamps	Hescamps, France	5 (40%)	Wind		
	Pléchâtel	Pléchâtel, France	4 (40%)	Wind		
	Various	Bulgaria, China, France and Scotland	410 development	Wind		
	Various	Latin America	TBA	Various	TBA	Tipped that assets are for sale (PFR, 5/18).
AIG Financial Products	Bruce Mansfield	Shippingport, Pa.	830 (80%)	Coal	Commonwealth Capital Advisors	Shopping interest in Unit 1 with sale likely to close before year-end (PFR, 12/1).
Allco Finance Group	Various	New Zealand	538	Wind	N/A	Prepped to sell by end of third quarter (PFR, 6/23).
Allied Waste Industries	Trinity Oaks	Trinity Oaks, Texas	3.2	Landfill	N/A	Fortistar to acquire with financing to be provided by Caterpillar Financial Services (PFR, 11/24).
American Shoreline	N/A	Texas, Mexico	3,000 development	Wind	N/A	Spinnaker Energy planning to purchase (PFR, 2/9).
ArcLight Capital Partners	Hobbs Generating	near Hobbs, N.M.	600	Gas	Credit Suisse	Selling newly commercial asset (PFR, 10/3).
	Juniper Generating	near Bakersfield, Calif.	298	Gas	Barclays Capital	Indicative bids taken mid-Sept. for portfolio of nine assets (PFR, 10/3).
	Various	Maine	24	Hydro	N/A	Filed with FERC approval (PFR, 8/10).
Astoria Project Partners	Astoria	Astoria, N.Y.	575	Gas	Merrill Lynch	Buyers looking to sell undetermined amount of equity in plants (PFR, 7/20).
	Astoria II	Astoria, N.Y.	500 development	Gas		
Babcock & Brown	South Trent	Nolan and Taylor Counties, Texas	101	Wind	Marathon Capital	FPL and others expected to close on generating assets (PFR 9/14).
	Majestic I	near Panhandle, Texas	80	Wind		
	Majestic II	near Panhandle, Texas	unknown	Wind		Riverstone bought 4 GW of development assets.
	Butler Ridge	Wisconsin	54	Wind		
	Wessington Springs	South Dakota	50	Wind		
	Gulf Winds	Kenedy County, Texas	238	Wind		
BARD Engineering	BARD Offshore 1	off coast of northwest Germany	400 development	Wind	UniCredit HVB	Looking to sell offshore farm in development (PFR, 2/9).
British Petroleum	N/A	Port Talbot, Wales	870 development	Gas	N/A	Shopping 100% interest in development (PFR, 9/12).
Caithness Energy (DCE)	Shepherd's Flat	Gilliam and Morrow Counties, Ore.	909 development	Wind	Citigroup	Teasers dispatched (PFR, 10/20).
Centrica	Lynn and Inner Dowsing	off Lincolnshire coast, U.K.	194	Wind	N/A	Looking to sell once portfolio refinanced (PFR, 6/1).
Chermac Energy	Various	Texas, N.M., Okla., Kan.	675 development	Wind	NorthWinds Advisors	Looking for buyers (PFR, 5/4).
City of Victorville	Victorville 2	Southern California	570 development	Gas/Solar	Goldman Sachs	Teasers dispatched (PFR, 6/30).
		Logistics Airport, Calif.				Took informal bids June 26 (PFR, 7/13).
Cobisa Corp.	Cobisa-Greenville	Dallas-Fort Worth, Texas	1,750	Gas	Pace Global Energy Services	Company facing financing troubles (PFR, 6/22).
Colmac Energy	N/A	near Mecca, Calif.	47	Biomass	Bodington & Co.	Sale iced due to financial markets (PFR, 1/19).
Conectiv Energy	Various	PJM Interconnection	3,700	Various	Credit Suisse	Status unclear.
Con Ed Development	Genor	Puerto Barrios, Guatemala	42 (49.5%)	Oil		Industry Funds Management did not acquire.
	Ada Cogeneration	Ada, Mich.	29 (48%)	Gas		Partner is Olympus Power.
Constellation Energy	West Valley	West Valley, Utah	200	Gas	N/A	Planning to sell to MidAmerican Energy Holdings Co. (PFR, 12/8) even though merger has been canceled.
Complete Energy Holdings	La Paloma	McKittrick, Calif.	1,022	Gas	JPMorgan	Has agreed to merge with GSC Acquisition Co. in \$1.3B deal (PFR, 5/16). Pending shareholder vote.
	Batesville	Batesville, Miss.	837	Gas		
Coram Energy	N/A	Tehachapi, Calif.	15 repowering	Wind	Marathon Capital	Seeking buyers for portfolio (PFR, 3/9).
	N/A	Tehachapi, Calif.	93	Wind		
	T	Tehachapi, Calif.	102	Wind	Marathon Capital	Partnering with Brookfield Renewable Power on the \$235 million project (PFR, 9/7).
	N/A	Knob Hill, Vancouver Island, B.C.	393	Wind		
	N/A	Banks Island, B.C.	525	Wind		
	N/A	Porcher Island, B.C.	198	Wind		
	N/A	McCauley Island, B.C.	233	Wind		

Generation Auction & Sale Calendar (cont'd)

Seller	Plants	Location	MW	Plant Type	Advisor	Status/Comments
CP Power Investments	Panoche	Firebaugh, Calif.	49	Gas	N/A	Looking for new offtakers or buyers for facilities (PFR, 7/28).
(Starwood Energy Investors II and Tyr Capital)	Vaca-Dixon	Vacaville, Calif.	49	Gas		
DKRW Wind	Various	U.S.	6 GW development	Wind	Marathon Capital	Looking for strategic partner (PFR, 12/29).
DTE Energy	East China	East China, Mich.	320	Gas	N/A	Seller exploring options, including outright sale.
Dynegy	Sandy Creek	Riesel, Texas	900 (32%)	Coal	Goldman Sachs	LS Power talking to relationship banks to fund purchase (PFR, 8/17).
	Riverside	Lawrence County, Ky.	500	Gas		
	Bluegrass	Oldham County, Ky.	500	Gas		
	Rocky Road	Chicago	364	Gas		
	N/A	Tilton, Ill	176	Gas		
	Renaissane	Carson City, Mich.	680	Gas		
	Arlington Valley	Arlington, Ariz.	585	Gas		
	Griffith	Golden Valley, Ariz.	558	Gas		
	N/A	Bridgeport, Conn.	527	Gas		
EarthFirst Canada	Dokie Ridge	Chetwynd, B.C.	300 constuction	Wind	N/A	GE EFS and Plutonic Power are considering purchasing project (PFR, 6/15).
Electrabel	Langerlo	Langerlo, Belgium	556	Coal	N/A	E.ON agreed to acquire plants in asset swap deal (PFR, 12/22).
	Vilvoorde	Vilvoorde, Belgium	385	Gas		
Energy Future Holdings (Luminant)	Sandow 4	Milam Co., Texas	545 (50%)	Coal	Credit Suisse	Reportedly planning to sell stakes to Perennial Power Holdings (PFR, 2/18).
	Sandow 5		581 (50%)	Coal		
Energy Investors Funds	Crockett Cogeneration	Crockett, Calif.	240	Gas	N/A	Assets draw full bids (PFR, 9/14).
	Hamakua	Hawaii	60	Biomass		
	Glen Park	near Watertown, Conn.	32	Hydro		
	Mustang Station	Denver City, Texas	490	Gas		
	Black Hawk	Borger, Texas	230	Gas		
Energy Investors Funds and Power Development Corp.	Waterside Power	Stamford, Conn.	72	Oil	Barclays Capital	ArcLight Capital Partners planning to buy (PFR, 2/23).
Entergy Corp.	50% stake in Top	Worth County, Iowa	40	Wind	New Harbor	Seller wants about \$520M for the assets. Bidders shortlisted to four players: two financial, two infrastructure (PFR, 6/18/07).
	Deer Wind Ventures	Carsen County, Texas	40			
	RS Cogen	Lake Charles, La.	212	Gas		
	Roy S. Nelson	Westlake, La.	60	Gas/Oil		
	Warren Power	Vicksburg, Miss.	225	Gas		
	Harrison	Marshall, Texas	335	Gas		
	Independence	Newark, Ark.	121	Coal		
	Robert Ritchie	Helena, Ark.	544	Gas/Oil		
E.ON	Lippendorf	Nukieritzsch, Germany	446	Coal	N/A	Signed MOU with EnBW to purchase to increase competition in sector (PFR, 12/22).
	Bexback	Bexback, Germany	79	Coal		
	Farge	Bremen, Germany	350	Coal	N/A	Electrabel will acquire through asset swap (PFR, 12/22).
	Zolling	Zolling, Germany	449	Coal		
	Unknown	Zolling, Germany	20 (50%)	Biomass		
	Trausnitz	Trausnitz, Germany	2	Hydro		
	Tanzmühle	Tanzmühle, Germany	3	Hydro		
	Various	Bavaria, Germany	300	Hydro	N/A	Agreed to sell 300 MW of hydro to Verbund.
Exergy Development Group	Various	Upper Midwest, Northwest	3,600	Wind	Marathon Capital	Sale process has been reignited.
First Wind	Stetson	Danforth, Maine	57	Wind	Credit Suisse	Newly operational asset on the block (PFR, 3/2). Hunting buyers (PFR, 3/9).
	Sheffield	Vermont	40 development	Wind		
	Various	North America	3,000 pipeline	Wind	JPMorgan, Credit Suisse, Goldman Sachs	Company filed S-1 to IPO as UPC Wind.
Fishermen's Energy	N/A	off coast of Atlantic City, N.J.	350 development	Wind	N/A	Consortium planning to add institutional partner to project (PFR, 7/20).
FPC Development	Shady Oaks	Lee County, Ill.	120 development	Wind	N/A	Mainstream Renewable Power purchased (PFR, 6/22).
	Green River	Lee County, Ill.	467 development	Wind		
	Boone County	Boone County, Ill.	200 development	Wind		
FPL Energy	Posdef	Stockton, Calif.	44	Coal/Petcoke	New Harbor	DTE is buying through a subsidiary (PFR, 2/2). Development site. Status unclear.
	Tesla	Tracy, Calif.	1,120	Gas/Steam	Credit Suisse	
Gas Natural	Hermosillo	Sonora, Mexico	250 MW	Gas/Steam	TBA	InterGen scoping assets (PFR, 8/17).
	Naco Nogales	Sonora, Mexico	300 MW	Gas/Steam	TBA	
	Tuxpan III and IV	Veracruz, Mexico	1 GW	Gas/Steam	TBA	
	Unknown	Norte-Durango, Mexico	450 MW	Gas/Steam	TBA	
	Central Saltillo	Coahuila, Mexico	248 MW	Gas/Steam	TBA	
	Central Anáhuac/Rio Bravo II	Tamaulipas, Mexico	495 MW	Gas/Steam	TBA	
	Central Lomas de Real/Rio Bravo III	Tamaulipas, Mexico	495 MW	Gas/Steam	TBA	
	Central Valle Hermoso/rio Bravo IV	Tamaulipas, Mexico	500 MW	Gas/Steam	TBA	
Gas Natural, Mitsubishi Corp.	Electricidad Aguila	Altamira, Mexico	495 MW	Gas/Steam	TBA	Gas Natural looking to sell its 51% stake in the JV project (PFR, 5/25).
General Electric	Baglan Bay	Port Talbot, Wales	510	Gas	Lexicon Partners	Process to be re-ignited in October.
	Panther Creek	Nesquehoning, Pa.	94	Waste Coal	N/A	Looking for buyers (PFR, 2/26).
	Colton Power	Colton, Calif.	80	Gas	N/A	Sale shelved.

Generation Auction & Sale Calendar (cont'd)

Seller	Plants	Location	MW	Plant Type	Advisor	Status/Comments
Gregory Power Partners	Gregory	Gregory, Texas	400	Gas	N/A	Sale iced due to credit crisis (PFR, 1/26).
Iberdrola	Russell Station	Greece, N.Y.	275	Coal	N/A	Will mandate advisor once auction schedule finalized by NYPSC (PFR, 12/29).
	Allegany Station	Hume, N.Y.	62	Gas		
	Unknown	New York	18	Gas		
	Unknown	New York	18	Gas		
Irving Oil	Bayside Power	St. John, New Brunswick	260	Gas	N/A	Emera agreed to purchase.
Kelson Cananda (Harbinger Capital Partners)	Island Generation	Duncan Bay, B.C.	230	Gas	UBS taken in Aug.	First round bids taken 4/30 (PFR, 4/30) and second round bids
	King City Cogeneration	King City, Calif.	120	Gas		
	Whitby Cogeneration	Whitby, Ontario	50	Gas		
Kelson Holdings	Dogwood	Pleasant Hill, Mo.	620	Gas	Goldman Sachs	Asset taken off the block for unknown reasons. Weighing strategic options, including sale/merger (PFR, 10/9/07).
	Cottonwood	Deweyville, Texas	1,200	Gas		
	Magnolia	Benton County, Miss.	922	Gas		
KGen Power	Murray I	Murray Co., Ga.	630	Gas	Credit Suisse	Sale put on hold until credit markets thaw (PFR, 10/24).
	Murray II	Murray Co., Ga.	620	Gas		
	Hot Spring	Hot Spring Co., Ark.	620	Gas		
	Hinds	Jackson, Miss.	520	Gas		
	Sandersville	Washington Co., Ga.	640	Gas		
International Power	Opatovice	Czech Republic	360	Coal	Citi, ING	Sale to J&T expected to close in November (PFR, 9/7).
	Pražská teplárenská	Czech Republic	64 (49%)	Coal/Gas		
	ET	Czech Republic	160 (49%)	Coal		
Los Angeles Department of Water and Power	N/A	Calif., Ariz., Utah	up to 5,600	Coal, Gas	Goldman Sachs, JPMorgan	Exploring options for divestment of fossil fuel portfolio (PFR, 8/8).
MACH Gen	Millennium	Carlton, Mass.	360	Gas/Oil	Credit Suisse	Pair of Northeast assets set to fetch \$1B (PFR, 5/21). Strategic Venture Partners seeking to buy 40% stake in company (PFR, 2/9).
	Athens	Athens, N.Y.	1,000	Gas/Oil		
	Harquahala	Tonopah, Ariz.	1,090	Gas		

For a complete listing of the Generation Auction & Sale Calendar, please go to iipower.com.

Project Finance Deal Book

Deal Book is a matrix of energy project finance deals that PFR is tracking in the energy sector. The entries below are of new deals or deals where there has been change in their parameters or status. To report updates or provide additional information on the status of financings, please call Jeanine Prezioso at (212) 224-3226 or e-mail jprezioso@iineews.com.

Live Deals: North America

Sponsor	Project	Location	Lead(s)	Loan	Loan Amount	Tenor	Notes
EnXco	Hoosier (106 MW Wind)	Fowler, Ind.	Dexia, Helaba, Union Bank	TBA	TBA	TBA	Deal set to wrap (PFR, 9/14).
Calpine	Steamboat Holdings	Freeport, TX and Mankato, Minn.	Calyon, WestLB, CoBank	Refi	\$465M	8-yr	Leads contacting banks (see story, page 1).
Gemini Solar, MMA	Unknown (30 MW Solar)	Austin, TX	TBA	TBA	\$150M	TBA	Looking to mandate before month-end (PFR, 9/14).
LNG Development	Pipeline (117 miles)	Warrenton to Moalla, Ore.	TBA	TBA	TBA	TBA	Will start talking to banks mid-2010 (PFR, 9/14)
Mitsui, Korea Gas, Samsung	Manzanillo (500 bcf LNG Regas)	Manzanillo, Mexico	BBVA, BoTM, Calyon, Development Bank of Japan, Mizuho, KEXIM, Standard Chartered, Sumitomo	Construction/ Term Loan	\$680M	12-yr	Seven lenders set to wrap (PFR, 9/14).
Sithe Global	Southdown (800 MW Combined Cycle)	Mississauga, Ontario	TBA	TBA	TBA	TBA	OPA contract to be awarded by month-end (see story, page 4).
Terra-Gen Power	Various (831 MW Renewables)	Various	TBA	Refi	\$250M	TBA	Re-launched refi efforts (PFR, 9/14).

Live Deals: Asia/Pacific

Sponsor	Project	Location	Lead(s)	Loan	Loan Amount	Tenor	Notes
International Power	Hazelwood (1,675 MW Coal)	Australia	Australia & New Zealand Banking Group, BofA, BoTM-UFJ, Calyon, RBS, SG Australia, WestLB, Westpac Banking	Refinancing	A\$445M	TBA	Original lenders to refi with large spread (PFR, 9/14).

For a complete listing of the Project Finance Deal Book, please go to iipower.com.

BANKS CIRCLE

(continued from page 1)

points. The company aims to wrap the deals by next month. He declined to elaborate on details of the financings, such as pricing, ticket sizes and structures.

The two five-year financings are divided between the long-term contracted facilities in one deal and short-term/merchant facilities in the other deal. The split among the nine assets could not be immediately learned.

"While the capacity prices can change with subsequent capacity auctions, the good news is that we are starting from very low prices so the downside risk is limited," Esteves says of the short-term/merchant facility deal, adding that power prices have likely bottomed out and any future capacity payments would be higher than current rates. The low leverage ratio on the short-term/merchant deal should also entice lenders, he adds.

BNP Paribas and WestLB are leading the efforts to bring banks into the deal backing the long-term contracted facilities and ING and GE Capital are talking to lenders for the other deal. Pricing on

BNP and WestLB's deal is likely to be in the low 300 basis point over LIBOR-range with step up fees, a deal watcher notes, adding banks are thinking of taking \$50-75 million tickets. Those lenders were to send out information packets to banks last Friday or today and commitments will likely be due early to middle of next month. Details of ING and GE's deal could not be learned.

The sponsor will likely be able to pull off the short-term/merchant deal by leaning on relationships, a project financier says, adding the long-term contracts of the other deal make it more attractive for lenders. Bank officials at the leads either declined to comment or did not return calls.

—Sara Rosner

Assets Purchased

PLANT NAME	CAPACITY (MW)	GENERATION	LOCATION
Riverside	500 MW	Peaker	Lawrence County, Ky.
Bluegrass	500 MW	Peaker	Oldham County, Ky.
Rocky Road	364 MW	Peaker	Chicago
Tilton	176 MW	Peaker	Tilton, Ill.
Renaissance	680 MW	Peaker	Carson City, Mich.
Arlington Valley	585 MW	Combined Cycle	Arlington, Ariz.
Griffith	558 MW	Combined Cycle	Golden Valley, Ariz.
Bridgeport	527 MW	Combined Cycle	Bridgeport, Conn.
Sandy Creek	288 MW	Coal-fired	Riesel, Texas

CANADIAN FIRM

(continued from page 1)

"[Sierra is looking for] partners with A, the cash, and B, who want to own the asset for the long-term, basically cashflow investors and infrastructure investors," says McIlveen, adding that firms from Canada, the U.S. and the United Kingdom are involved in discussions.

Sierra had several legal contracts drawn up and ready for signatures in October 2008 when the firm was shopping for joint partners on five projects but the companies backed out at the start of the financial crisis (PFR, 7/11/08).

"We seem to have a revolving door of interested parties. It's a tough space to get a deal done," says Gary Thompson, ceo of Sierra. "We had a lot more partners at the table before the meltdown, but after that they walked away. There's more interest now and some of the same ones came back."

Sierra, which has invested an estimated \$15 million in the three projects, wants to remain involved but may relinquish majority control. The independent evaluator GeothermEx estimated that the sites have a 90% probability of reaching the following:

- 110 MW on two projects on 18,000 acres in Esmeralda County
- 55 MW on 6,000 acres in Lander County
- 26 MW on 5,000 acres in Lyon County

Construction is slated for the first quarter, with a complete production well on each site before the end of the year. Sierra is

debating whether to sell power to California or Nevada utilities and will have a PPA before financing begins, says Thompson.

The company is in the process of applying for a 30% grant under the American Recovery and Reinvestment Act from the U.S. Department of Energy and plans to meet the construction deadline of December 2010 and generating power by 2013 (PFR 7/12).

—Holly Fletcher

CALPINE SCOUTS

(continued from page 1)

"The price is reflective of the lack of liquidity in the market," says a banker familiar with the deal. "There are banks in the existing deal that won't be in the new deal even though it's a good price and a good credit." The pricing on the previous loan was 175 bps over LIBOR, which escalated to a 200 bps spread as it matured.

Existing banks in the deal are expected to get 2% for recommitting the same amount and 3% up front if they commit more. The deal is expected to close in the fourth quarter.

Much of whether the deal gets done is contingent on its rating, says one banker who covers Calpine but has not seen details of the deal. "It's not completely out of the realm of possibility that they can get this done at these levels," the banker says. "But deal ratings will be a big factor." This type of deal would pique the interest of collateralized loan obligations, whose appetite is starting to come back, the banker notes. Calpine Corp. is rated B2 by Moody's Investors Service. Without a floor, the deal might not be "three

times oversubscribed,” but it should get done somewhere between 300 and 400 bps over LIBOR, the banker adds.

The refinancing is part of a \$466 million construction term loan taken in 2005 to build the 250 MW Freeport, Texas, cogeneration plant and the 365 MW Mankato, Minn., combined cycle plant (PFR, 4/1/05). Both plants are fully contracted. A number of banks took pieces of that five-year loan including HypoVereinsbank, HSH Nordbank and Natixis.

Calpine and banks either declined to comment, could not be reached for comment or did not return calls. —*Jeanine Prezioso*

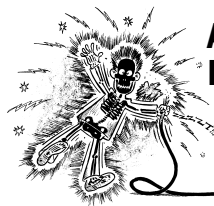
Conference Calendar

- **IntertechPira** is hosting Carbon Capture and Storage World Summit Sept. 22-24 at the Hotel Palomar Arlington in Arlington, Va. To register, visit www.carboncaptureandstorage-conference.com or call 207.781.9636.
- **Platts** will host the 4th Annual Pipeline Development & Expansion Sept. 24-25 at the Westin Oaks in Houston. To register, visit www.platts.com or call 781.430.2105.
- The **American Wind Energy Association** will host the AWEA Wind Resource & Project Energy Assessment Workshop Sept. 30-Oct. 1 at the Hilton Minneapolis in Minneapolis. To register, visit www.awea.org or call 202.383.2500.
- The **Geothermal Energy Association** will host the Geothermal Energy Expo Oct. 4-7 at the Peppermill in Reno, Nev. To register, visit www.geo-energy.org or call.
- The **American Wind Energy Association** will host the AWEA Wind Power Finance & Investment Workshop Oct. 13-14 at the New York Marriott Marquis in New York. To register, visit www.awea.org or call 202.383.2500.
- **Platts** will host the 11th Annual Financing U.S. Power Conference Oct. 19-20 at the Hyatt Regency in Jersey City, N.J. To register visit www.platt.com or call 866.355.2930.
- **Infocast** will host the Biomass Summit Oct. 19-21 at the Almas Temple Club in Washington, D.C. To register, visit www.infocastinc.com or call 818.888.4440.
- **Wind Energy Update** will host the Offshore Wind Energy in North America & the Great Lakes Oct. 21-22 at the Delta Toronto East in Toronto. To register, call +44.0207.375.7247.

Quote Of The Week

“We had a lot more partners at the table before the meltdown but after that they walked away. There’s more interest now and some of the same ones came back.”—**Gary Thompson**, CEO of **Sierra Geothermal** in Vancouver, Canada, on the company’s negotiation with up to five potential partners for three geothermal sites (see story, page 1).

Alternating Current

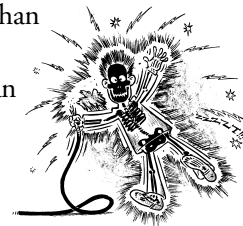


At-Home Generation, Burning Biomass In The Basement

Power generation might just be the next big do-it-yourself project, if **Cyclone Power** is able to commercialize and market a portable waste heat engine that produces power from waste byproducts to provide 10 kW an hour.

The Ft. Lauderdale-based company, which specializes in steam engines, just signed contracts with undisclosed companies to test manufacture its 4-foot by 4-foot biomass generator. The prototype was expensive to build because all the parts had to be special ordered but mass producing the generator would be “very inexpensive,” making the generator attractive to consumer markets, says **Wilson McQueen**, director of marketing at Cyclone.

The generator, which weighs more than 20 pounds, and has wires to pass electricity into home electrical wires, can burn almost any type of natural waste, from dried corn stalks to elephant manure, McQueen says. The engine is external so the biomass residue won’t gum up its mechanics.



Since the generator burns most materials with a high energy content, the portable generator could bring power to remote places from rural America to Africa, where people live off the grid, McQueen says.

“We’ve got markets all over the world who can’t get or afford electricity. In Africa, where they dump elephant manure into dung pits, we could dump that into the hopper,” says McQueen.

A suburban homeowner might not want to stockpile waste to use this product and lower their electric bill, but it would work for a farmer who needed sporadic power in a barn.

One Year Ago In Power Finance & Risk

WindRosePower sought a joint venture partner for a 250 MW wind project near the Texas panhandle in Childress County last fall. [The three-person firm is now in discussions with undisclosed buyers and is planning to move away from wind development, towards consulting. WindRose wants to stay on as consultants on the project until completion, which is scheduled for 2013 when a regional transmission line is installed (see story, page 3).]