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Tyr Makes Debut Renewables Investment

Tyr Energy has made its first investment in renewables via newly-minted vehicle **American Renewables** with two joint partners.
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CS, SG TAPPED FOR 1.6 GW NUKE FINANCING

UniStar Nuclear Energy has mandated **Credit Suisse** and **Société Générale** to advise on financing its new 1.6 GW Unit 3 nuclear reactor at the company's Calvert Cliffs facility in Lusby, Md. The project has an estimated cost of \$4-5 billion and would be the first new nuclear facility built in the U.S. since the 1970s. UniStar is a joint venture between **Constellation Energy Group** and **Électricité de France**.

Financing options are still being weighed, says a deal tracker, but the company has applied for federal loan guarantees through the **Department of Energy**. The new project would come online around 2015, following the sponsor obtaining a combined license from the **Nuclear Regulatory Commission**.

The project would sell power into the PJM Interconnection and be a U.S. Evolutionary

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WISCONSIN ELECTRIC PLOTS \$500M-\$700M IN DEBT OFFERINGS



Jeff West

Wisconsin Electric Power is planning to finance half the \$1-\$1.2 billion cost of emissions upgrades and a wind farm development with debentures. "We've used unsecured credit for sometime now and... at this point, we believe that the markets are very receptive," says **Jeff West**, cfo of the Milwaukee-based subsidiary of **Wisconsin Energy Corp.**

The utility will likely issue early next year, says West. Interim construction costs will be funded with commercial paper, and the remaining half of the projects' costs will be funded by cash flows.

The projects, which are part of the company's Power the Future plan (PFR, 05/18/07),

(continued on page 11)

RGGI CARBON ALLOWANCES TRADE UP

The trading price of carbon emissions allowances has increased over 20% following the **Regional Greenhouse Gas Initiative's** inaugural auction Sept 25, translating to higher costs for CO2 producers and higher profits for allowance sellers. "We're thrilled!" says **Jonathan Schrag**, executive director at RGGI in New York, of the clearing price.

Northeastern and Mid-Atlantic states oversee the program that intends to provide a fair and open market by establishing a transparent price for carbon. Allowances equal the right to emit one ton of carbon dioxide and are distributed to electric power plants regulated under coordinated state CO2 cap-and-trade programs. The allowances can then be bought or sold in the secondary market.

Allowances are trading around \$3.60 on the **Chicago Climate Futures Exchange**, says

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

Santander Seeks Financing Partners

Banco Santander is looking for banks to join it in arranging EUR486.5 million (\$683 million) backing the purchase of a 466 MW Spanish wind portfolio from Babcock and Brown Wind Partners.

Fomento de Construcciones y Contratas tapped the bank as financial coordinator after the Spanish company agreed to purchase it for AUD\$266 million (\$233.6 million) (PFR, 8/22) and an assumption of EUR590 million (\$814.79 million) in debt. Santander is offering more generous fees than other recent deals in the market, says one dealwatcher, but specific pricing and structure could not be learned.

The portfolio consists of 14 farms with 421 MW in operation and 45 MW in development across Spain. The farms range in size from 15.2-50 MW, with the largest being the Carrascal I and Cerradilla I farms.

Officials at the bank in Madrid confirmed its role, but declined further comment and officials at the company could not be reached.

Tyr Teams Up To Form Biomass Player

Tyr Energy is moving into renewable energy and has formed American Renewables with joint venture partners to focus on developing large-scale biomass generation. "It's a significant investment that firmly plants the flag for us in the renewable energy space," says Bob Brettell, senior advisor with Tyr in Overland Park, Kan. "We're looking to be able to add some heft to the biomass space."

Baycorp Holdings and Energy Management Inc. fill out the joint venture. "We think it's an exciting platform to bring together the skills of the three shareholders," says Al Morales, cfo of the new entity. "Each brings a lot of experience in energy, renewables and asset management." BayCorp and EMI are developing the \$330 million, 100 MW Nacogdoches Power project in Sacul, Texas, that recently landed a 20-year power purchase agreement with Austin Energy (PFR, 9/5). That project and two 100 MW biomass projects in the Southeast are included under the umbrella of the new company. Future projects will be around the same size. "From a Tyr perspective... It's an ability to partner with long-term developers with long-term experience," says Brettell, specifically noting Jim Gordon, president of EMI, and Frank Getman, ceo of BayCorp.

Morales, who was formerly coo for renewable company Environmental Power Corp., will be joined by EMI executives Ari Mervis, Len Fagen and Bob Donahoe—the v.p.s of engineering and technology, business development and engineering services respectively. "We expect American Renewables to be a fully formed, free-standing entity," says Brettell.



Thomas Rains

Rains Named Managing Editor

Thomas Rains has been named managing editor of *Power Finance & Risk*. Previously, he was a reporter for the publication covering project finance. Before joining *PFR*, he held several roles on National Journal Group publications in Washington, D.C., before spending two years teaching in Mississippi as a Teach For America corps member.

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INTELLIGENCE FIRST

Commitments Due In Longview Financing

Commitments are coming due in **Merrill Lynch's** \$250 million mezzanine financing for **Longview Power**, owner of a 695 MW supercritical pulverized coal plant under construction in Maidsville, W. Va.

Ticket sizes were not specified for the debt, which will mature in February 2015, according to deal trackers, who say the lead has approached potential investors individually to judge the appetite of each. Pricing is reportedly 10% fixed plus 4% payment-in-kind. One deal tracker notes the lead also offered variable rate pricing that would roughly amount to 10%, but most investors have wanted fixed. Potential investors reportedly include **ArcLight Capital Partners**, **Fortress Investment Group**, **Harbert Power**, **LS Power**, **Trust Company of the West** and **Union Bank of California**. Officials at the firms either declined comment or did not return calls. Calls to Merrill officials were not returned. A spokeswoman for **First Reserve Corp.**, which owns 90% of Longview, declined to comment or make an official available, and calls to **GenPower Holdings** (10%) were not returned.

The owners opted for the mezzanine financing after terminating an auction for 49% of the company (PFR, 8/22). That auction came after a \$450 million mezzanine financing was put on hold last year to test the waters of an auction. The project is set to come online in the spring of 2011. It has a five-year PPA for 300 MW with **PPL Energy Plus** and the remaining power will be sold into the western PJM market.

PE Manager Looks To Sell Assets, Wrap Fund



Lawrence McGrath

FE Clean Energy Group, a private equity fund manager, is looking to sell assets and planning a hard close for its fifth fund by March. The fund could raise as much as \$200 million, says **Lawrence McGrath**, managing partner.

The Darien, Conn.-based manager has raised \$150 million so far with a \$100 million commitment from a European pension fund and \$50 million from U.S.-based **Overseas Private Investment Corp.** It focuses on investments in the energy sector, investing 50% in Latin America, 25 % in Central Europe and 25% in Asia. "That's our area of expertise," says McGrath. The fund is seeking investments in everything from run-of-the-river hydro projects to wind in Brazil and cogeneration facilities and has already made an investment in sugarcane ethanol. After the close, it will have four

years to deploy the funds and 10 years to divest of the assets.

FE started in 2001 and has funds that range in size from \$65-200 million, including its **Global Asia Clean Energy Services Fund** (PFR, 6/2/06). The firm targets investments from \$5-30 million, says McGrath, but notes, "We could do \$60 million, but we would bring in [co-investors]."

Separately, it is in the process of selling assets from other funds. One such asset is a 12 MW diesel-fired, ring-fenced facility near Mexico City, he says, declining to disclose the value. It is also looking to sell assets in Poland and Hungary, he says, noting French energy services company **Veolia Environmental** would be a natural buyer. A spokeswoman at Veolia in Paris did not immediately return a call.

Geo. Developer Seeks Buyer To Stave Off Project Foreclosure

T G Power, a geothermal developer, is seeking a buyer for its 12-14 MW Hot Sulphur Springs late-stage geothermal generation project in Elko County, Nev., to avoid foreclosure on the project. **Martin Buckley**, project owner in Elko, Nev., says it is looking for someone to buy out **Energy Investors Funds'** debt investment in the project or someone to buy the project outright.

EIF's United States Power Fund II has invested \$20 million in the project in the form of a high-interest rate loan since the project's inception about two years ago. It has the option to take about \$80 million of equity in the deal upon completion of the project. But, EIF has ceased investing because it feels it has committed more money than originally anticipated, says Buckley, adding that he was a founder of EIF. "We grossly underestimated," he says of the project cost, but notes the capital costs are in range with other geothermal projects. If the project is not sold, it may have to go through foreclosure, he says.

The project is worth about \$50-60 million and could be expanded, says Buckley. "We think the site has great potential." Construction on the project has not yet begun, but the company is prepared to line up an EPC contract and wells have proven the presence of resources to support at least 12-14 MW of generation. Buckley says the site could ultimately produce 60-100 MW. **DZ Bank** is planning to provide a \$110-120 million construction loan to the project (PFR, 12/14/07). **Fortis Capital**, originally tapped with DZ, has pulled out of the financing for reasons Buckley declined to discuss. Because the project is not yet producing power, it has defaulted on a 20-year PPA with **Nevada Power** and is negotiating a new offtake agreement with the utility.

Andrew Schroeder, senior partner at EIF in New York, and officials at the banks did not return calls.

Canadian Co. Eyes More Caribbean Assets

Energy company **Emera** is looking to acquire more Caribbean assets after recently acquiring a 25% stake in the **Grand Bahama Power Co.** “We are certainly open. We like the Caribbean,” says **Jennifer Nicholson**, director of investor relations and strategic development in Halifax, Nova Scotia.

Emera purchased the stake in GBPC through its acquisition of a 50% interest in **ICD Utilities** for \$41 million. That acquisition, which closed Sept. 16, is being funded with an existing C\$600 million (\$563.7 million) credit facility led by a bank which Nicholson declined to name. It did not use an advisor for the transaction.

Nicholson says Emera is interested in further expanding its stake in GBPC. “We certainly would if it was available,” she says. The remaining interest in GBPC is split between **Marubeni Caribbean Power Holdings**, which owns 55.4%, and the shareholders of the other half of ICD Utilities, which holds the remaining 19.6% stake of GBPC.

This is the second investment the company has made in the Caribbean after buying a 19% stake in **St. Lucia Electricity Services** for \$22 million (PFR, 1/26/07). “They have very high returns,” says Nicholson, noting Caribbean-based utilities have experienced average returns of 15% in the past few years.

An official at GBPC did not return a call. Officials at ICD could not be reached and officials at **Marubeni Corp.** did not return a request for comment.

Italian Developer Set To Shortlist Banks

Relight is planning to shortlist banks in the next few months to arrange a EUR55 million (\$80.42 million) financing to support the construction of a 10 MW photovoltaic solar facility in southern Italy. The Milan, Italy-based renewable energy developer plans to reach financial close early next year, says **Gokhan Baykam**, ceo and founder.

The project is one in a 200 MW pipeline of solar projects its subsidiary **Resolar**—which is backed by **Good Energies**—plans to bring online in Italy over the next two years. **Banca Intesa**, **Royal Bank of Scotland** and **UniCredit HVB** are relationship banks, says Baykam. Officials at Good Energies did not return a call.

Next up is 300 MW of wind projects it is constructing in Turkey at a combined cost of about EUR500 million. It has mandated an undisclosed bank to arrange financing for the first of four projects in that pipeline and expects to reach financial

close early next year. The cost for the first 93 MW project in northwest Turkey is estimated at EUR1.7 million per megawatt or about EUR158.1 million. The financing for the project will be structured 35:65 debt to equity, he says. It nixed a portfolio financing for the Turkish farms due to turmoil in the credit markets. Construction on the first farm is expected to be complete next year.

The company is also planning to build 500 MW of wind in Italy over the next two years. Relight is geographically focused on the Mediterranean countries, but is looking to venture abroad as early as next year. “We are considering entering into new markets including the Americas,” says Baykam. “It depends a lot on the legislation. The U.S. could really be the biggest market in the world.”

Lehman's Ford Team Starts At Barclays

Dan Ford's Lehman Brothers equity research team has fired up coverage under new owner **Barclays Capital**. The power and utilities team will cover “all the companies we previously covered at Lehman Brothers,” says an e-mail sent last week on behalf of Ford and **Gregg Orrill**. The team has begun publishing its research.

The team move was part of the sale of Lehman's broker-dealer operation, according to a Barclays' official who declined to comment further. Other officials did not return calls or referred calls to Ford, who did not return requests for comment. Also on the team are **Beth Straka**, **Ted Brooks**, **Ross Fowler**, **Noah Hauser** and **Allyson Orlando**.

Pace Staffer Flips To Houston

Jim Diemer, executive v.p. at **Pace Global Energy Services**, has moved to the firm's Houston office as it looks to expand in the city. “Tim's vision is that we will build the office to the size of our Fairfax office, which is about 120 people,” Diemer says, referring to **Tim Sutherland**, president and ceo. Diemer officially made the move last month, after spending a quarter to half his time in Houston for the past two years. Previously he was based in Fairfax, Va., at Pace's headquarters.

The move follows a mid-year assessment at Pace as it looks toward next year's activities. “We have a lot of clients there and the service level is a lot higher when you can walk across the street and have face-to-face meetings on a moment's notice,” he explains. Diemer's role will remain the same covering non-regulated energy companies and developers as well as their financial partners. Additionally, he will serve as head of the office that has grown to 15 from eight in a little over a year.

ArcLight Offers N.M. Plant

ArcLight Capital Partners is selling a 600 MW combined-cycle gas-fired plant 10 miles west of Hobbs, N.M., via auctioneer **Credit Suisse**. **Lea Power Partners**, which is held in ArcLight Energy Partners Fund III, owns the Hobbs Generating Station.

The plant came online Sept. 16, says an official at facility manager **Colorado Energy Management** in Hobbs. It uses 90% less water than comparable facilities by employing giant fan-cooled radiators in its steam cycle. **Xcel Energy** has a 25-year PPA through subsidiary **Southwestern Public Service Co.** and has an option to purchase the facility down the line, says an Xcel spokesman in Amarillo, Texas. He says he does not have knowledge of the asset sale.

The value of the facility could not be learned. Sponsors contributed \$34 million in equity (PFR, 5/18/07) and **Calyon** and **Lehman Brothers** syndicated some \$430 million in financing (PFR, 4/13/07).

Dan Revers, partner at ArcLight in Boston, did not return calls and an official at Credit Suisse declined to comment. Officials at the other firms did not return calls.

Calif. Solar Co. Funds Development With EIF

Mill Valley, Calif.-based **Solar Power Partners** will use equity from **Energy Investors Funds** to develop 22 projects with a combined 10 MW capacity by year-end. "That enables SPP to expand our business on a nationwide basis and it will enable us to accelerate our solar project development," says **Alex Welczek**, ceo of SPP, adding that the company will use the equity from EIF's United States Power Fund III to close its \$85 million proprietary special purposes vehicle that encompasses the projects and open a new SPV.

SPP develops and manages installations of up to 500 kW for universities, hospitals and municipalities, which buy the output from SPP at retail prices. The company has 6 MW of projects online to date, the bulk of which are in the Golden State. Welczek notes that the company is looking for roughly \$100 million in debt and equity for its next SPV which would include 28 MW of projects slated for operation in 2009.

United Commercial Bank, **Globespan Capital Partners**, **Silicon Valley Technology Group** and **Carrelton Asset Management** have also contributed debt and equity to SPP. Welczek declined to specify EIF's contribution and EIF officials could not be reached.

Welczek and **John Eastwood**, principle of **Eastwood Energy**, founded SPP in 2006 to take advantage of the 2007 California Solar Initiative, which provides state tax rebates and incentives for small solar installations.

HSH Taps Ex-CS Staffer For Energy

HSH Nordbank has tapped **Brian Caldwell**, former director of the portfolio group within **Credit Suisse's** project finance team, to head portfolio management for the energy group as the bank expands its team. "We hired Brian because of his vast experience in managing a project finance portfolio... Energy is a core business for us and that's why we had to add staff in the portfolio area," says **Mike Pepe**, head of structuring and analysis in New York, to whom Caldwell reports.

Caldwell started in the newly created role last month. Pepe also joined HSH earlier this year (PFR, 7/25). Other recent hires include **Dennis Magna**, senior v.p. of syndications, who joined from **Duke Capital Partners** (PFR, 9/5). Credit Suisse officials did not return calls.

Barclays Sets Date For Juniper Bids

Barclays Capital has set mid-November as the deadline for final bids for **Juniper Generation**, a portfolio of nine California projects being sold by **ArcLight Capital Partners**.

Lehman Brothers was mandated earlier this year for the sale, and Barclays took over the mandate through its acquisition of the firm. Indicative bids were due in the middle of last month, but bidders could not be learned. Officials handling the deal at Barclays, who formerly covered the deal at Lehman, did not return calls, nor did officials at ArcLight.

Juniper contains nine gas-fired cogeneration projects totaling some 298 MW around Bakersfield and Corona, Calif. and are held by ArcLight Energy Partners Fund II. Power from the assets is sold under offtake agreements ending between 2009 and 2026 with **Pacific Gas and Electric** and **Southern California Edison** (PFR, 3/28/04).

Solar Co. Lands Equity Financing



Robert Fishman

Solar developer **Ausra** has landed \$60.6 million preferred equity for its continued development. "We are acquiring land for additional projects. We will be building at least one if not three additional factories. It's money to finish our Kimberlina demonstration facility as well as continue to develop our technology," says **Robert**

Fishman, ceo in Palo Alto, Calif. "We want to keep the debt:equity ratio at a place where the lenders are comfortable, he adds, noting that the company took on debt last year.

The company has a pipeline of some 5 GW of projects for both solar power and steam generation in development. Later this month, it will bring online its 5 MW Kimberlina demonstration facility near Bakersfield, Calif., and last June it

opened its first solar collector manufacturing facility in Las Vegas that will be able to produce 700 MW worth of mirrors for solar plants by 2010.

Calgary, Alberta-based **KERN Partners**, the U.K.'s **Generation Investment Management**, Australia's **Starfish Ventures**, **Khosla Ventures** and **Kleiner Perkins Caufield & Byers** provided the funding. Fishman declined to elaborate on the breakdown beyond saying Ausra decided to only raise the

funds it needs now, and will later raise more equity when the company has a higher value. "Some of our competitors have gone out and raised \$140 million... Why sell your stock cheap?"

Ultimately, the company will look to go public. "We have a plan of things we want to accomplish that will make the company appropriately valued. I really want to have a strong story when we go public," he says, adding that an IPO would be after next year.

Corporate Strategies

LIPA Plots Notes For Refi, Capex

Long Island Power Authority is planning to issue \$549 million of 2008 series A and B electric system bonds and may convert \$200 million **Financial Security Assurance**-insured variable rate bonds to fixed rate notes. "We're trying to find the time when the market is open to a deal... We wanted to be prepared and we're confident that the market will go back to its normal state," says **Elizabeth McCarthy**, cfo. She adds the Uniondale, N.Y.-based utility is pricing the 25-year bonds via negotiation on a day-to-day calendar and may convert the 2001 series B, C, M and N bonds, pending market conditions.

The 2001 bonds are in the same pool of debt instruments as \$993 million of failed auction-rate securities for which LIPA has been evaluating refinancing options (PFR, 2/29), McCarthy says, declining to comment on the utility's plans for them. **Lina Santoro**, analyst at **Fitch Ratings**, notes the authority is likely converting the variable rate notes to avoid the impact of a downgrade on FSA, which was put on review for a possible downgrade by **Moody's Investors Service** in July. "They're trying not to have a problem in the future with these bonds... LIPA may think it's safer to convert it to fixed-rate mode and get out variable rate exposure there."

The proceeds from \$203 million in 2008 series B bonds will fund the company's \$303 million 2008 capex plan, which is devoted to maintaining and upgrading LIPA's transmission and distribution system. Roughly \$347 million of 2008 series A bonds will refund senior and subordinate debt that LIPA used to fund general corporate purposes. McCarthy declined to comment on possible pricing for the current issue. Fitch rates the 2008 series bonds A-.

Goldman Sachs is leading the deal while **Banc of America Securities**, **Citigroup**, **DEPFA**, **First Albany Securities**, **First Southwest Company**, **JPMorgan**, **Lehman Brothers**, **Loop Capital Markets**, **Morgan Stanley**, **Merrill Lynch**, **Ramirez and Co.**, **RBC Capital Markets**, **Roosevelt and Cross**, **Siebert**, **Brandford, Shank and Co.** and **Wachovia** are co-managers. McCarthy notes that banks chosen for the deal are part of LIPA's preferred group of lenders which were chosen

to lead the company's issuances through 2010 by a request for proposal process (PFR, 07/28/06).

The authority serves 1.1 million people on Long Island, N.Y.

PECO Swoops On Market Window, Issues \$300M



Phil Barnett

PECO issued \$300 million in first mortgage bonds to take advantage of a small reprieve in the turmoil plaguing credit markets. "There was a window that did open up... There were enough interested people in our paper to pull the trigger and issue the debt," explains **Phil Barnett**, cfo in Philadelphia, on the gas and electric company's decision to bring the deal to market Sept 25. The **Exelon** subsidiary landed 5.6%, five-year notes in the deal which closed Oct. 2.

PECO will use proceeds to pay down commercial paper which the utility tapped to fund part of its \$394 million capital program. More than \$200 million of the program is earmarked for upgrading five 230 kV transmission lines, a new substation in University City and extending a line across the Delaware River with **PJM Interconnection** (PFR, 2/15). Construction on the projects, which are in Pennsylvania, is set to start at the beginning of next year and the facilities will come online in 2010.

Barnett says while the bonds did not price as well as a 10-year, 5.35% issue for \$500 million in March, the company is satisfied with pricing. "Given the uncertainty with the bailout we felt it was an acceptable price and we felt it was better to get the financing done than get too aggressive with the pricing."

Banc of America Securities, **Morgan Stanley** and **Scotia Capital** were joint bookrunners for the deal while **BNP Paribas**, **KeyBank Capital Markets**, **Lazard Capital Markets**, **RBS Greenwich Capital**, **SunTrust Humphrey**, **Loop Capital Markets**, **Carbrera Capital** and **Siebert Capital** were co-managers. "We look at who we think can get us a good deal and

we do try to diversify our activity across multiple banks so that we have diversity of relationships,” Barnett says of PECO’s choices to lead the deal.

PECO had \$1.67 billion in outstanding long term debt and \$205 million in short-term debt as of June 30. When adjusted for transition debt, the company’s capital structure is 54% equity.

Puget Ramps Up Generation Via Project Deal



Christine Philipps

Puget Sound Energy has agreed to buy the 310 MW gas-fired Mint Farm Energy Center in Longview, Wash., from Wayzata Opportunities Fund for \$240 million to meet growing demand. The facility was one of four short-listed after PSE issued a request for proposals in January seeking 1,340 MW of new generation that drew 30 bidders.

“We’re trying to execute everything we put on the shortlist,” says Christine Philipps, manager of resource acquisition in Bellevue, Wash., explaining the wish list includes possible offtake agreements in addition to acquisitions. Among them are 20-year PPAs with two planned wind farms in Washington and Oregon totaling 250 MW as well as a short-term, winter-only PPA from a fourth project. Longer term, PSE will seek other acquisitions and developments in Oregon, Washington and Idaho. Law mandates PSE to issue a request for proposals to meet its generation needs.

The utility is planning to initially fund the acquisition internally, but may file a rate increase in one to two years to fold the acquisition cost in with other needs, says Philipps. The

utility’s customer base population is expected to grow by 28% over the next 20 years and by 2020, 15% of its generation must be sourced from renewable resources. PSE did not use an advisor for the deal because of its use of in-house staff, she says. It could not be learned if Wayzata Investment Partners, which manages the fund, used an advisor.

The transaction is expected to close by year-end, pending approval from the Federal Energy Regulatory Commission. John Foley, partner at Wayzata Investment Partners in Boston, did not return calls.

Duke, Calpine Draw Credit Lines

Duke Energy and Calpine Corp. have drawn down on their revolving credit facilities to increase liquidity in a tightening credit market. Duke drew down \$1 billion of its \$3.2 billion credit agreement and Calpine tapped \$725 million of its \$1 billion revolver, according to PFR sister publication *Credit Investment News*.

“We had about \$1 billion in cash or cash equivalent, so we decided as a conservative measure to go for the other billion,” says a Duke spokesman. “The financial companies are having a very tough time right now.” The drawdown will fund a number of construction projects, including additional generators at existing plants and two gas-fired plants in North Carolina. Calls to administrative agent JPMorgan were not returned.

Calpine tapped \$725 million of its \$1 billion revolver, which is part of its \$5 billion Chapter 11 exit financing. Calls to a company spokeswoman were not returned. Goldman Sachs, Credit Suisse, Deutsche Bank and Morgan Stanley were the leads. Calls to bankers at the leads were not returned.

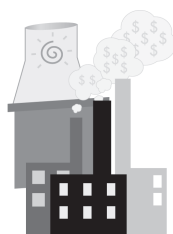


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Generation Auction & Sale Calendar

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 Thomas Rains, managing editor, at (212) 224-3226 or e-mail trains@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		
Allco Finance Group	Various	Australia, New Zealand	1,600		N/A	Prepped to sell by end of next quarter (PFR, 6/23). AGL Energy to buy Australian wind farms for AUD\$12.5M.
ArcLight Capital Partners	Auburndale	Polk County, Fla.	155 (70%)	Gas, Oil	McManus & Miles	Atlantic Power Corp. has agreed to purchase for \$134.5M.
British Petroleum	N/A	Port Talbot, Wales	870 development	Gas	N/A	Shopping 100% interest in development (PFR, 9/12).
BTEC Turbines	Southaven Energy	Miss.	340	Gas	JPMorgan	Assets or just the equipment for sale. Teasers dispatched (PFR, 4/3).
	New Albany Power	Miss.	390	Gas		
Calpine	Texas City	Texas City, Texas	425	Gas	Miller Buckfire	Second-round bids taken 5/5. Unsolicited bid for Calpine from NRG Energy said to be delaying the process.
	Clear Lake	Clear Lake, Texas	375	Gas		
CarVal Investors et al.	Granite Ridge	Londonderry, N.H.	720	Gas	Merrill Lynch	First round bids due Aug. 19 (PFR, 8/12).
Central Vermont	Various	Vermont	70 in summer	Hydro	Morgan Stanley	Status unknown (PFR, 5/18).
City of Victorville	Victorville 2	Southern California Logistics Airport, Calif.	570 development	Gas/Solar	Goldman Sachs	Teasers dispatched (PFR, 6/30).
Cobisa Corp.	Cobisa-Greenville	Dallas-Fort Worth, Texas	1,750	Gas	Pace Global Energy Services	Auctioneer running a targeted auction (PFR, 5/30). Shortlist drawn up with close pushed back to year-end or first quarter of next year.
Colmac Energy	N/A	near Mecca, Calif.	47	Biomass	Bodington & Co.	First round bids in two-stage auction due early Oct. (PFR, 9/3).
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. Partner is Olympus Power.
	Ada Cogeneration	Ada, Mich.	29 (48%)	29 (48%)		
ConocoPhillips	Immingham	Lincolnshire, U.K.	730	Gas	Citigroup	Looking at strategic options on the plant (PFR, 1/18).
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		
Corona Power	Sunbury Generating	Shamokin Dam, PA	432	Coal, oil, diesel	Merrill Lynch	Soliciting equity to complete \$250M of upgrades (PFR, 12/24).
CP Power Investments (Starwood)	Panoche	Firebaugh, Calif.	49	Gas	N/A	Looking for new offtakers or buyers for facilities (PFR, 7/28).
Energy Investors II and Tyr Capital)	Vaca-Dixon	Vacaville, Calif.	49	Gas		
DONG Energy	Evia, Karistos and Tourla	Greece	19	Wind	HSBC	Agreed to sell portfolio to Mytilineos Holdings for EUR28M.
DTE Energy	East China	East China, Mich.	320	Gas	N/A	Seller exploring options, including outright sale.
EISL	Various	Catalonia, Spain	630	Wind, Hydro	JPMorgan	Company weighing sale (PFR, 12/24).
Energy Capital Partners (FirstLight Power Enterprises)	Mt. Tom	Holyoke, Mass.	146	Coal	Credit Suisse	SUEZ Energy North America agreed to acquire (PFR, 9/8).
	Various	Conn. and Housatonic Rivers	216	Hydro		
	Empire Generating	Rensselaer, N.Y.	635	Gas		
	Waterbury	Waterbury, Conn.	96	Gas		
	Turners Falls	Turners Falls, Mass.	6	Hydro		
	Cabot, Mass.	Montague, Mass.	62	Hydro		
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 and Power Development Corp.	Waterside Power	Stamford, Conn.	72	Oil	Barclays Capital	First round bids due middle Oct., with second-round bids due in Nov. (PFR, 9/26).
Entegra	Gila	Phoenix, Ariz.	2,300	Gas	N/A	Merger talks with KGen stalled (PFR, 1/17).
	Union	El Dorado, Ark.	3,000	Gas		
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).
	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		
EPCOR	Castleton-on-Hudson	Albany, N.Y.	64	Gas	N/A	Quietly shopping asset (PFR, 4/18).
ESB International	Marina	Cork City, Ireland	115	Gas	Merrill Lynch	Endesa to purchase for EUR450M.
	Great Island	Wexford Co., Ireland	240	Oil		
	Tarbert	County Kerry, Ireland	640	Oil		
Exergy Development Group	Various	Upper Midwest, Northwest	3,600	Wind	Marathon Capital	Weighing partnership, joint venture, recap or sale (PFR, 12/17).
FPL Energy	Posdef	Stockton, Calif.	44	Coal/Petcoke	New Harbor	Indicative bids due April 11 (PFR, 3/11). Development site. Status unclear.
	Tesla	Tracy, Calif.	1,120	Gas/Steam		
G2 Energy	N/A	Boise, Idaho	3	Landfill Gas	N/A	FORTISTAR to acquire 99% and is financing the acquisition via Caterpillar Financial Services (PFR, 5/7).
	N/A	Fort Worth, Texas	2	Landfill Gas		
General Electric	Baglan Bay	Port Talbot, Wales	510	Gas	Lexicon Partners	Process to be re-ignited in October. Welsh Power interested.
	Panther Creek	Nesquehoning, Pa.	94	Waste Coal	N/A	Looking for buyers (PFR, 2/26).
	Colton Power	Colton, Calif.	80	Gas	N/A	Selling with help of asset manager PUREENERGY (PFR, 4/8).
Goldman Sachs (Cogentrix Energy)	Southaven Power	Southaven, Miss.	810	Gas	Houlihan Lokey	TVA will acquire for \$466.3M (PFR, 4/1).

Generation Auction & Sale Calendar (cont'd)

Seller	Plants	Location	MW	Plant Type	Advisor	Status/Comments
InterGen (AIG Highstar Capital II, 50%)	Rocksavage	Runcorn, U.K.	748	Gas	Lehman Brothers	GMR Group to acquire stake for \$1.1B (PFR, 6/25).
	Coryton	Essex, U.K.	732	Gas		
	Spalding	Lincolnshire, U.K.	860	Gas		
	Rijnmond I, II	Rotterdam, the Netherlands	820, 400	Gas		
	Bajio	San Luis de la Paz, Mexico	600 (306 stake)	Gas		
	La Rosita	Mexicali, Mexico	1,100	Gas		
	Quezon	Philippines	460 (211 stake)	Coal		
	Millmerran	near Brisbane, Australia	880 (228 stake)	Coal		
	Callide	Queensland, Australia	920 (230 stake)	Coal		
Gregory Power Partners	Gregory	Gregory, Texas	400 MW	Gas	N/A	Quietly on the block (PFR, 8/11).
K&M International Power	Termovalle	Cali, Colombia	220	Gas	JPMorgan	First round bids due 7/1 (PFR, 6/12). Second round bids due 9/18 (PFR, 8/18).
Kelson Canada (Harbinger Capital Partners)	Calgary Energy Center	Calgary, Alberta	300	Gas	UBS	First round bids taken 4/30 (PFR, 4/30) and second round bids taken Aug. Asset taken off the block for unknown reasons.
	Island Generation	Duncan Bay, B.C.	230	Gas		
	King City Cogeneration	King City, Calif.	120	Gas		
	Whitby Cogeneration	Whitby, Ontario	50	Gas		
Kelson Holdings	Dogwood	Pleasant Hill, Mo.	620	Gas	Goldman Sachs,	Weighing strategic options, including sale/merger (PFR, 10/9).
	Cottonwood	Deweyville, Texas	1,200	Gas		
	Magnolia	Benton County, Miss.	922	Gas		
KGen Power	Murray I	Murray Co., Ga.	630	Gas	Credit Suisse	Talks to merge with Entegra stalled due to management disagreements (PFR, 3/24). Received \$20 per share offer reportedly from ArcLight Capital Partners (PFR, 5/9), but did not recommend to shareholders. Auction in second round (PFR, 9/10)
	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		
Los Angeles Department of Water and Power MACH Gen	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).
	Millennium	Carlton, Mass.	360	Gas/Oil	Credit Suisse	Pair of Northeast assets set to fetch \$1B (PFR, 5/21). Deal close to being announced, possibly just for sale of Covert.
	Athens	Athens, N.Y.	1,000	Gas/Oil		
	Covert	South Haven, Miss.	1,100	Gas		
	Harquahala	Tonopah, Ariz.	1,090	Gas		
Mirant	Lovett Generating Station	Tompkins Cove, N.Y.	183	Coal/Gas	N/A	Alliance Energy offered to buy for undisclosed sum but withdrew offer when Mirant did not respond (PFR, 2/14).
National Grid	E.F. Barrett	Island Park, N.Y.	311	Gas		According to company, assets not for sale. Long Island Power Authority did not agree to purchase by 5/31 deadline (PFR, 4/11).
	Far Rockaway	Far Rockaway, N.Y.	100	Gas		
	N/A	Shoreham Nuclear Plant, N.Y.	72	Gas		
	Wading River	East Shoreham, N.Y.	239	Gas		
National Wind (30-40%)	High Country Energy	Olmsted and Mower Counties, Minn.	300 (14%)	Wind	Delphi Financial Corp.	Marketing to state-based residents and businesses (PFR, 6/23).
Navasota Energy Partners	Colorado Bend	Wharton, Texas	825	Gas	JPMorgan	In second round (PFR, 9/16). Bidders said to be after Colorado Bend only.
	Quail Run	Odessa, Texas	825	Gas		
New Green Technologies	N/A	N/A	12—16	Waste-to-energy	N/A	Seeking buyers and/or partners for four-plant packages (PFR, 7/14).
Noble Environmental Power	Various	N.Y., Mich.	385	Wind	Goldman Sachs	Company filed S-1 to IPO (PFR, 5/16).
North American Power Group	Rio Bravo Fresno	Fresno, Calif.	25	Biomass	N/A	In discussion with potential buyers (PFR, 8/31/07). Holds interests alongside Constellation Energy Group.
	Rio Bravo Rocklin	Roseville, Calif.	25	Biomass		
NorthWestern Energy	Colstrip Unit 4 (30%)	Mont.	740	Coal	Credit Suisse	Bicent Power has agreed to buy for \$404M.
NRG Energy	Indian River	Millsboro, Del.	784	Coal	N/A	Seller soliciting offers on plant (PFR, 11/8).
PSEG Global	Turboven Cagua	Venezuela	60 (60%)	Gas	N/A	Assets remaining to be sold as part of an international divestiture program outlined in 2002.
	Turboven Maracay	Venezuela	60 (60%)	Gas	N/A	
	Pillaiperumalnallur	India	330 (20%)	Gas	N/A	
	Bando d'Argenta	Italy	20 (85%)	Biomass	N/A	
	Crotone	Italy	20 (43%)	Biomass	N/A	
	Strongoli	Italy	20 (43%)	Biomass	N/A	
Reliant Energy	Bighorn	Primm, Nev.	598	Gas	JPMorgan	Nevada Power to buy for \$500M.
RES Americas	Various	U.S.	1,000 under construction	Wind	Credit Suisse	Auction reportedly nixed (PFR, 8/4).
Ridgeline Energy	Various	Idaho, Ore., Wash.	3,700 pipeline	Wind	Marathon Capital	Talks nixed with a southern U.S. utility (PFR, 10/8). Back in play.
Ridgewood Renewable Power	Penobscot	West Enfield, Maine	25	Biomass	Ewing Bemiss	Covanta Holding Corp. has agreed to pay \$87M for the biomass plants.
	Jonesboro	Jonesboro, Maine	25	Biomass		
	Various	Maine, Va., N.Y., Calif.	26	Hydro		
Scottish and Southern Energy	Greater Gabbard	Thames Estuary, England	504 (50%)	Wind	RBC Capital Markets	Seeking buyer for 50% stake (PFR, 7/7).
Sempre Generation	Catoctin	Frederick Co, Md.	600 development	Gas	N/A	Development project reportedly for sale.
Sierra Geothermal Power	Reese River	Lander Co., Nev.	26-58 (50%)	Geothermal	Jacob & Co. Securities	Looking to sell 50% of first five projects (PFR, 7/14).
	Pumpnickel	Winnemucca, Nev.	16-40 (50%)			
	Silver Peak	Esmeralda Co., Nev.	15-40 (50%)			
Sierra Pacific Industries	Loyalton	Loyalton, Calif.	20	Biomass	N/A	Renegy agreed to purchase 4/11 for \$13M (PFR, 4/16).
Signal Hill Power	Wichita Falls	Wichita Falls, Texas	77	Gas	Miller Buckfire	First-round bids received 3/17.

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

News In Brief

News In Brief is a summary of publicly reported power news stories. The information has been obtained from sources believed to be reliable, but PFR does not guarantee its completeness or accuracy.

Americas

- **Warren Buffet's Berkshire Hathaway** has agreed to invest \$3-\$6 billion in **General Electric** (*Wall Street Journal*, 10/2).
- **Sempra Energy** has wrapped a \$510 million cash acquisition of **EnergySouth** (*San Diego Business Journal*, 10/2) and three top EnergySouth executives have resigned (*Press-Register*, 10/2).
- The U.S. Senate has approved the \$700 billion bailout plan, which includes a one-year extension on wind production tax credits and an eight-year extension on solar investment tax credits. (*Reuters*, 10/2).
- **Sierra Pacific Resources** subsidiary, **NV Energy**, received state approval to build a 484 MW combined cycle plant and acquire the 562 MW Bighorn plant from **Reliant Energy** (*Business Wire*, 10/2).
- **High Country Wind** has completed the nation's first IPO related to the development of a wind project (*MarketWatch*, 10/1).
- **Samuel Bodman**, U.S. Secretary of Energy, says nuclear construction could be at risk because of the global financial crisis (*Associated Press*, 10/1).
- **Constellation Energy Partners** has hired **Tudor, Pickering, Holt & Co. Securities** to review strategic alternatives for the company because of market conditions and the recent agreed merger of parent **Constellation Energy group** with **MidAmerican Energy Holdings** (*MarketWatch*, 9/30).
- **Kinder Morgan Energy Partners** and **Energy Transfer Partners** are planning to jointly develop a \$1.3 billion, 187-mile gas pipeline from the Fayetteville Shale region in Arkansas to Quitman County, Miss. (*Houston Chronicle*, 10/1).
- **OG&E** has completed its acquisition of a 51% stake for \$434.5 million in the 1,230 MW Redbud plant near Luther, Okla., from **Kelson Holdings** along with **Grand River Dam Authority** and **Oklahoma Municipal Power Authority** (*OCKBusiness.com*, 10/1).
- **Reliant Energy** will raise \$1 billion of new capital because of hurricane damage and credit market turmoil (*Wall Street Journal*, 9/30).
- **Duke Energy** is drawing \$1 billion from its \$3.2 billion credit line to increase liquidity in light of uncertain credit markets (*MarketWatch*, 9/30).

- **Entergy** estimates that Hurricanes Ike and Gustav cost the company more than \$1 billion (*Associated Press*, 9/30).
- **DeepwaterWind**, a New Jersey-based renewable energy firm, has been granted the rights to develop an estimated \$1-2 billion offshore wind farm by Rhode Island officials (*Associated Press*, 9/25).
- **Entergy Corp.** has filed an application with the federal **Nuclear Regulatory Commission** to build and operate a second nuclear reactor at the River Bend Station at St. Francisville, La. (*Associated Press*, 9/26).
- The U.S. House has passed a bill authorizing the **Department of Defense's** funding for Yucca Mountain, but it still needs Senate approval (*Las Vegas Review-Journal*, 9/26).
- Ontario-based **Riverbank Power Corp.** is considering building a \$2 billion underground pump-and-storage plant at the site of the former Maine Yankee nuclear plant in Wiscasset (*Portland Press Herald*, 9/26).

Europe

- **EDF** is nearing a deal with private equity group **KKR** that may trump **Warren Buffet's** \$4.7 billion takeover of **Constellation Energy** (*Financial Times*, 10/2)...EDF has agreed to buy **Lehman Brothers'** gas and power marketer **Eagle Energy Partners** (*Wall Street Journal*, 9/30).
- Iraq has signed deals with **General Electric** and **Siemens** worth \$7-8 billion to supply equipment that will almost double its generation capacity (*Reuters*, 9/27).
- Germany's **RWE** has offered to pay a share from its EUR10 billion (\$14 billion) in profits from nuclear facilities to the German government if efforts to phase out nuclear generation are stopped (*Financial Times*, 9/30).
- Hungarian **MVM** and **RWE's Matrai Eromu** will build a \$1.18 billion, 400 MW lignite-fueled project (*Reuters*, 9/30).
- **Scottish Power** is unveiling its plans for the world's largest tidal power project and a factory to make tidal turbines in an effort to lead the world in tidal generation (*Financial Times*, 9/28).
- Russian power producers **OGK-2** and **OGK-6** are planning to discuss share sales valued at RUB70 billion (\$2.77 billion) at their next board meetings (*Reuters*, 9/29).

News In Brief (cont'd)

- Italy's **Enel** and Czech **CEZ** are vying to purchase up to 76% in Albanian power distributor **DSO** (*Reuters*, 9/29).
- Russia's **LUKOIL** has raised its previous 82.3% stake in utility **TGK-8** to 95.4% and will create a new subsidiary called **LUKOIL Power Generation** to operate its power industry assets (*Reuters*, 9/29).
- Wartsila**, the Finnish engineering company, and machinery supplier **Metso** have agreed to form a renewable energy joint venture (*istockAnalyst.com*, 9/29).
- RWE Innogy**, the German utility group, has purchased a greenfield biomass plant in Stallingborough, England from **Helius Energy** for about GBP28 million (\$51.54 million). The company plans to invest EUR260 million (\$379.45 million) more to complete the facility (*Financial Times*, 9/26).

Asia

- Hyundai Heavy Industries** has won a \$1.7 billion deal to build a power plant and desalination facility in Bahrain (*Asia Pulse*, 10/2).

WISCONSIN ELECTRIC

(continued from page 1)

include \$830 million of desulfurization and catalytic reduction equipment to control emissions at the company's 1,153 MW coal-fired plant in Oak Creek, Wis. Those controls are set to be installed by 2011.

Also in the pipeline is the \$200-\$400 million, 100-200 MW Randolph wind farm in Columbia County, Wis. Wisconsin Electric will begin issuing unsecured debentures to fund the project at the start of construction during the second half of next year, pending permitting, says West. That project is set to come online around the end of 2010.

Wisconsin Electric issued \$300 million of 6% debentures maturing in 2014 at the end of last month. A portion of those proceeds will refund commercial paper that was issued to cover construction costs of the Oak Creek project and the balance for general capital expenditures. **Citigroup** and **Wachovia** led that sale with **SunTrust Robinson Humphrey** and **Wells Fargo** as co-managers. West says that Wisconsin Electric chose the lead banks based on their strong relationships with the company and their participation in its \$500 million revolving credit facility. **Banc of America Securities**, **Bank of Tokyo Mitsubishi**, **BNP Paribas**, **JPMorgan** and **US Bank** are on the revolver and will also be

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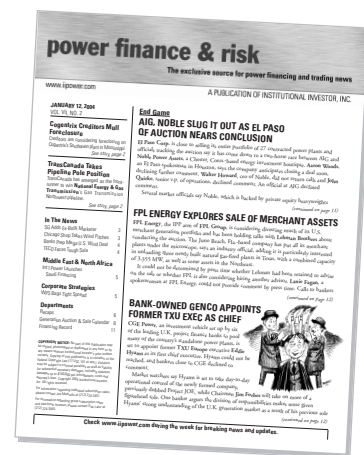
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considered for future deals.

Also included in the Power the Future plan is the \$669 million 575 MW gas-fired Port Washington plant in Milwaukee and the \$300 million 145 MW Blue Sky Green Field wind farm in Fond du Lac County, Wis. which both came online in May. The \$325 Million Pleasant Prairie emissions control project at the 1,210 MW Pleasant Prairie coal-fired plant in Pleasant Prairie, Wis., become operational in 2007. —*Sara Rosner*

RGGI CARBON

(continued from page 1)

Peter Zaborowsky, managing director at **Evolution Markets** in White Plains, N.Y. The allowances sold for \$3.07 each in the RGGI auction—a price set by the highest losing bid. “They’re creeping up there,” says Zaborowsky, noting the prices are rising to the pre-auction trading price range of \$3.75-3.80 with no sign of slowing. “Some of what you could be seeing is traders unwinding short positions in the futures market,” says **Robert Oden**, senior commercialization manager at carbon credit aggregator and trader **EcoSecurities** in New York, noting the increase could also be due to oversubscription in the auction creating higher demand. “If you’re a big generator it’s a question of do I want to hedge that [risk] or factor it in?” says Zaborowsky.

Some 59 energy, financial and environmental organizations bid in the auction looking for four times the 12.5 million credits available. RGGI will not price allowances for the next auction on Dec. 17 and the number of allowances will depend on the states participating. Delaware, New Jersey, New Hampshire and New York did not participate in the first auction. —*Katie Hale*

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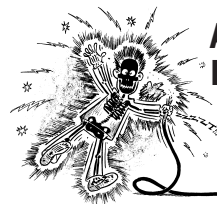
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Alternating Current

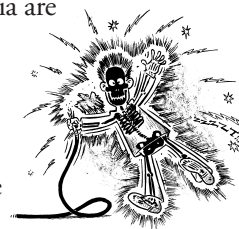
Alternating Current: Deus Ex Machina



The Amish avoid modern technology, but some in Pennsylvania are tapping the sun to power the few machines they use that demand electricity.

Amish do not connect to the nation’s grid because they shun connection to the outside world. But, with solar power, they have now found they *can* tap into what they call “God’s grid” to charge batteries for their buggies, electric fences and sewing machines. Previously, these items were powered from diesel generators or gas-powered machines.

However, don’t expect to see any Amish rocking out with iPods or surfing the Web on laptops while sipping lattes. They are trying to employ other renewable technologies by installing energy-saving fluorescent bulbs in houses and LED lights in buggies, but you won’t see hybrids replacing horses in the stables any time soon. Electricity can only be used for limited applications that do not make members too worldly or materialistic.



CS, SG TAPPED

(continued from page 1)

Power Reactor—a standard design for new units in the U.S. The existing two units generate a combined 1.7 GW and came online in 1975 and 1977. In 2000, they were the first in the country to be granted 20-year operating licenses from the NRC to operate through 2034 and 2036, respectively.

UniStar did not return calls, and officials at the banks declined to comment. —*Thomas Rains*

Quote Of The Week

“There was a window that did open up... There were enough interested people in our paper to pull the trigger and issue the debt.” —**Phil Barnett**, cfo of **PECO** in Philadelphia, on a reprieve in credit market turmoil allowing the utility to price a \$300 bond issue (see story, page 6).

One Year Ago In Power Finance & Risk

KGen pulled out of a \$1.3 billion deal to buy **Complete Energy Holdings’** 1.8 GW gas generation portfolio and paid a \$50 million break-up fee [Complete tapped **JPMorgan** to auction the portfolio and ultimately transferred the portfolio’s equity to **GSC Acquisition Co.**, which Complete formed when it merged and went public with **GSC Group** (PFR, 5/16)].