

Welcome to today's Bloomberg New Energy Finance NewsWatch - your selection of news stories relating to clean energy investment.

## NEWS

### RUBENIUS PLANS \$4 BILLION FOR ENERGY STORAGE FACILITY IN MEXICO

11 Oct 2010 / Power Storage / TOP STORIES / Mexico

Rubenius, the Dubai-based energy company, will invest \$4 billion to build in Mexico a facility able to store power produced from low-carbon sources such as solar and wind for use during times of peak demand.

Rubenius will install 1,000 megawatts of energy storage batteries made by Tokyo-based NGK Insulators Ltd. at the site in Baja California, a statement from the company said. Rubenius bought a 140-hectare (346-acre) site at the Silicon Border's Science Park for the facility, it said. The "NAS" energy storage batteries reduce power demand fluctuation by storing electricity from intermittent renewable sources including solar and wind. Later, the power is released when demand is higher. The cost of the batteries, power conversion system, the cabling, monitoring and the housing for the units is about \$3 billion, and the remaining \$1 billion will go for deployment, land and additional transmission lines, company founder Claus Rubenius said by e-mail. The facility will offer storage to energy companies and utilities in Mexico and the U.S. "This energy storage solution will make deployment of wind energy and solar energy more viable," Rubenius said. The batteries will feed power to both the Baja California power grid and the U.S. grid including the new Sunrise Power Grid expansion, the statement said. The plan will directly employ 200 people and support another 800 in the region, Rubenius said. It has already installed and commissioned the largest energy storage system in the world in the United Arab Emirates, according to the company. Rubenius will create a manufacturing base to make other alternative energy and smart grid products at Silicon Border, the statement said. It's also planning a research and development center in San Diego that will include laboratories for smart grid products and services, the statement said. It expects to eventually employ a staff of 200. Rubenius said it was recently created by Amplex AS, a Danish electronics maker incorporated in 2001.

NEF "FIRST TAKE": This USD 4bn project is a big step forward for the power storage industry. Apart from pumped hydro storage systems, no other power storage facilities have gone into the GW scale. At 1GW, this project also reaffirms the position of sodium sulphur batteries as the leading storage technology. Excluding pumped hydro, the installed large-scale power storage capacity stands at around 900MW globally, so when installed, this 1GW project would be a significant increase in global non-hydro storage capacity. As the only company commercially producing and marketing NAS batteries, NGK Insulators is expected to be one of the main beneficiaries of this deal. However, its production capacity is only around 150MW/year currently, which will affect how quickly this project can be completed.

Source: Company/organisation statement

### ABU DHABI'S MASDAR REVISES ZERO-CARBON PLAN, DELAYS PHASE ONE

11 Oct 2010 / Solar / TOP STORIES / United Arab Emirates

Masdar, the Abu Dhabi government-backed renewable energy company, abandoned plans for Masdar City to be carbon-neutral from the start and delayed the city's first phase by two years to 2015.

The project will be completed between 2020 and 2025, the company said in an e-mailed statement. "While still aiming to eventually be powered 100 percent by renewable energy, Masdar City will no longer rely solely on on-site clean energy sources," the company said. "The purchase of renewable energy from off-site locations may also be utilized as energy demands increase over the project's lifetime." Founded in 2006, Masdar City is the showpiece of Abu Dhabi's pursuit of alternative energy. The \$22 billion venture, which includes a research university, was reviewed this year after the financial crisis caused spending reductions. Masdar is also scaling back the Personal Rapid Transport system consisting of electric driverless vehicles known as pods, the statement said. The company will test alternative vehicle technologies instead, it said.

[Source: Bloomberg News](#)

## **GOLDWIND RECEIVES \$6 MILLION SUBSIDY FOR WIND POWER DEVELOPMENT**

11 Oct 2010 / Wind / FUNDS / China

Xinjiang Goldwind Science & Technology Co., a Chinese wind turbine maker, has been awarded a 40.3 million yuan (\$6 million) subsidy by the Urumqi government in the Xinjiang Uyghur Autonomous Region.

The local government is offering subsidies to boost the development of wind-turbine manufacturing in Dabancheng, Goldwind said in a filing to the Shenzhen Stock Exchange. The company didn't disclose the use of the subsidies. The Urumqi-based company, whose shares have gained 12 percent in Shenzhen trading this year, raised HK\$6.8 billion (\$876 million) in a share sale in Hong Kong on Oct. 8.

[Source: Stock exchange filing](#)

## **ENEL GREEN POWER LISTING APPROVED BY ITALY STOCK EXCHANGE**

11 Oct 2010 / Wind / PUBLIC MARKETS / Italy

Enel Green Power SpA received approval for the company's shares to be listed on the Italian stock exchange, according to an e-mailed statement Monday from Borsa Italiana.

Enel will "firmly" control Green Power after the alternative energy unit's initial public offering later this month, Chairman Piero Gnudi said in a separate interview with Italian newspaper *Il Giornale*. Floating about 30 percent of the unit "allows us to firmly keep the majority and the operational management of the company," *Il Giornale* quoted Gnudi as saying. Gnudi indicated that he might accept another mandate as Enel's chairman when his third term expires next year, saying "this decision will be up to the shareholders."

[Source: Bloomberg News](#)

## **CORUN NEW ENERGY RAISES \$64 MILLION FOR BATTERY PRODUCTION**

11 Oct 2010 / Power Storage / PUBLIC MARKETS / China

Hunan Corun New Energy Co., whose shares have gained 56 percent this quarter, said it raised 427 million yuan (\$64 million) from a private placement to fund the production of its batteries in electric cars.

The Chinese battery maker will issue 28.5 million shares at 14.96 yuan each, Hunan Corun New Energy said in a filing to the Shanghai Stock Exchange. The Changsha-based company will use the proceeds to help produce nickel metal hydride batteries used in electric automobiles, according to the filing. Shares of Hunan Corun rose 4.9 percent to close at 17.92 yuan.

Source: Stock exchange filing

## **JOHNSON CONTROLS TO INSTALL CONCENTRIX SOLAR ENERGY SYSTEMS**

12 Oct 2010 / Solar / PROJECTS & ASSET FINANCE / United States

Johnson Controls Inc., a provider of products and services to increase energy efficiency in buildings, said it will work with Concentrix Solar GmbH on utility-scale solar energy projects worldwide.

Under a new partnership, Johnson Controls will install, operate, and service solar-power plants using Concentrix concentrated photovoltaic technology, the Milwaukee-based company said in a statement. Financial terms weren't disclosed. The first installations will likely be in the U.S. Southwest because of projects that are already under way there, said Iain Campbell, vice president and general manager of Global Energy Services at Johnson Controls, in an interview. Other ideal locations for the systems include Africa, India, Australia, southern Europe and the Middle East, he said. Concentrix, a division of French semiconductor manufacturer Soitec SA, uses Fresnel lenses in its solar panels to concentrate sunlight 500 times and focus it on high-efficiency cells. An integrated two-axis tracking system also follows the sun's movement during the day to maximize power production. The Freiburg, Germany-based company says its systems are nearly twice as efficient as conventional silicon-based solar panels. Johnson Controls will work with Concentrix to optimize its modules and integrate new technologies. "We believe there is a lot of cost to take out of the control systems," Campbell said. The integration of wireless controls is one thing the companies are considering because it would help identify cells or modules that need repair and would reduce maintenance costs over the lifecycle of the projects, he said.

Source: Company/organisation statement

## **DUKE ENERGY'S FOURTH WYOMING WIND-POWER PLANT BEGINS OPERATING**

12 Oct 2010 / Wind / PROJECTS & ASSET FINANCE / United States

Duke Energy Corp. said its 200-megawatt Top of the World wind-energy project, its fourth in Wyoming, has begun delivering power to Rocky Mountain Power Co. under a 20-year contract.

Top of the World, near Casper, uses 66 wind turbines from General Electric Co. and 44 from Siemens AG. The project is part of Duke's \$1 billion investment since 2007 to increase wind-generating capacity, which now totals 935 megawatts, the Charlotte, North Carolina-based company said in a statement. The company's capacity is expected to increase further later this year when the 51-megawatt Kit Carson wind farm starts operation in eastern Colorado. Top of the World's turbines can produce enough electricity to supply power for about 60,000 homes, the company said. The project's cost wasn't disclosed. Duke operates three other wind farms in Wyoming: the 99-megawatt Campbell Hill, 29-megawatt Happy Jack, and 42-megawatt Silver Sage projects. Rocky Mountain Power's parent, PacifiCorp, is owned by MidAmerican Energy Holdings Co., a unit of Warren Buffett's Berkshire Hathaway Inc.

Source: Company/organisation statement

## ACTIV SOLAR COMPLETES FIRST LARGE UKRAINIAN SOLAR PROJECT

11 Oct 2010 / Solar / PROJECTS & ASSET FINANCE / Ukraine

Activ Solar GmbH, a Vienna-based solar energy company, said it completed Ukraine's first large photovoltaic project at the Crimean village of Rodnikovoye outside Simferopol.

Bogdan Klyuyev, business development manager for Activ Solar LLC (Ukraine), said in a telephone interview that the 2.5- megawatt photovoltaic plant has now been connected to the national grid and it "benefits from a long-term purchase agreement guaranteed under the Ukrainian Green Tariff Law." An additional 5 megawatt PV plant has been under construction on an adjacent site and will be completed within the next couple of months, Klyuyev said. The total number of solar modules on both plants will reach 33,800, spread over 15 hectares. The modules have been manufactured at another Activ Solar Ukrainian subsidiary, OJSC Semiconductor Plant, in nearby Zaporozhye. Klyuyev said that Activ Solar Chief Executive Officer Kaveh Ertefai saw southern Ukraine as offering potential for solar energy developments because of its high solar irradiation levels and a fixed feed-in-tariff subsidy.

Source: Company/organisation statement

## MONTENEGRO GRANTS CONCESSIONS FOR \$26.1 MILLION OF HYDRO PLANTS

11 Oct 2010 / Small Hydro / PROJECTS & ASSET FINANCE / Montenegro

Montenegro's latest concessions for five small hydro plant projects have been granted to local company Kroling of Danilovgrad, according to a statement by the country's economy ministry.

Two separate concessions cover capacity on the river Tusina at Savnik and the river Komaraca at Plav, and the agreements have been signed by Montenegro Economy Minister Branko Vujovic and Kroling Director Zeljko Miskovic, the statement said. The Tusina river concession is for 30 years and comprises four small hydro plants with a total planned output of 6 megawatts. Kroling will pay a concession fee of 5.7 percent of the anticipated annual output revenue. The Komaraca river concession will last 25 years. It comprises one small hydro plant with the total output of 4 megawatts. Kroling will pay a 5.7 percent output revenue concession fee to the government. The ministry said the total investment by Kroling will reach 18.8 million euros (\$26.1 million), with the Tusina investment comprising 12.7 million euros and that at Komaraca 6.1 million euros. These concessions complete the small hydro plant program that started in September of 2009 and will see the country's electricity generation boosted by some 33 megawatts of installed output, the statement said.

Source: State media report

## GD UNIT TO SPEND \$119 MILLION TO DEVELOP WIND POWER IN JILIN

11 Oct 2010 / Wind / PROJECTS & ASSET FINANCE / China

GD Power Development Co. said its unit Guodian Technology & Environment Co. will spend 796 million yuan (\$119 million) to develop wind power in the northeastern Chinese province of Jilin.

Guodian Technology will develop a 198-megawatt wind farm in four phases, each with 49.5 megawatts of capacity, GD Power said in a filing to the Shanghai Stock Exchange. The first phase will come on-line by the year-end, according to the filing. A unit of Guodian Technology, Guodian United Power Technology Co., will spend 392 million yuan to build a plant to make 1.5-megawatt and 3-megawatt wind turbines, GD Power said. GD Power has a 49 percent stake in Guodian Technology while China Guodian Corp., the power producer's parent, owns the rest.

Source: Stock exchange filing

## **TAIWAN CEMENT CONDUCTS EARLY STUDY ON BUILDING SOLAR PLANT**

11 Oct 2010 / Solar / PROJECTS & ASSET FINANCE / Taiwan

Taiwan Cement Corp. is conducting an "early study" on building a solar power plant, the Taipei-based company said in a filing to the Taiwan Stock Exchange.

Taiwan Cement Corp. plans to build Taiwan's largest solar power plant with the capacity to produce 100 megawatts of electricity at a site in the southern Pingtung County, the China Times reported, citing an interview with Chairman Leslie Koo.

Source: Bloomberg News

## **STATE-OWNED FIRMS DOMINATE CHINA'S WIND TENDER, OBSERVER SAYS**

11 Oct 2010 / Wind / PROJECTS & ASSET FINANCE / China

State-owned Chinese firms won the nation's first national offshore wind concession projects in Jiangsu province, the China Economic Observer said.

The National Energy Administration, the nation's energy bureau, rejected all bids that had the lowest prices, the report said. China Longyuan Power Group Corp., a unit of China Guodian Corp., placed a successful 0.6396 yuan (9.5 U.S. cents) per kilowatt-hour bid for a 200-megawatt project in Dafeng. Shandong Luneng Group Co., a subsidiary of State Grid Corp of China, won the bid to develop the 200-megawatt Dongtai project with a bid of 0.6235 yuan per kilowatt-hour, while China Datang Corp. Renewable Power Co. won the 300-megawatt Binghai project with a tariff of 0.7370 yuan per kilowatt-hour. China Power Investment won the 300-megawatt project in Sheyang with its offer of 0.7047 yuan per kilowatt-hour. Sinovel Wind Co. will supply the turbines for the Binghai and Sheyang projects, while Xinjiang Goldwind Science & Technology Co. and Shanghai Electric Group Co. will supply turbines for Dafeng and Dongtai respectively, the newspaper said.

Source: State media report

## **TBEA PLANS TO INVEST \$50 MILLION TO CONSTRUCT SOLAR WAFER PLANT**

12 Oct 2010 / Solar / MANUFACTURE & SCALE-UP / China

TBEA Co., a Chinese manufacturer of electric transformers and cables, plans to invest 331.5 million yuan (\$50 million) to build a 100-megawatt solar wafer production plant.

Its unit Xinjiang SunOasis Co. will manage the construction of the plant, TBEA said in a filing to the Shanghai Stock Exchange. The facility will include both monocrystalline silicon wafers and polysilicon wafers with the same production capacity. The Changji, Xinjiang-based company didn't disclose the location and schedules of the plant. TBEA also makes solar modules and photovoltaic inverters, the company said on its website.

[Source: Stock exchange filing](#)

## **INDIA'S NATIONAL FERTILIZERS CANCELS CONTRACT FOR WIND PLANT**

12 Oct 2010 / Wind / CONTRACTS & PROCUREMENT / India

India's state-owned National Fertilizers Ltd. has canceled the contract awarded for its 14.7-megawatt wind energy project in Rajasthan's Jaisalmer district, it said in an announcement to the stock exchange.

The company didn't give any reason for the cancellation. It announced the award of the contract to an unidentified company on June 19. The government owns a 97.64 percent stake in the company, which is the second largest producer of nitrogen fertilizers in the country.

[Source: Stock exchange filing](#)

## **GENERAL CABLE LANDS \$271 MILLION ORDER ON BALTIC SEA WIND FARM**

11 Oct 2010 / Wind / CONTRACTS & PROCUREMENT / Germany

General Cable Corp., the Highland Heights, Kentucky-based cable maker, won a 195 million-euro (\$271 million) order to supply and install undersea cables linking a Baltic Sea wind farm to the electricity grid on land.

General Cable, through its unit Norddeutsche Seekabelwerke GmbH, will provide and install 120 kilometers (75 miles) of 150 kilovolt transmission cable connecting the 288-megawatt Baltic 2 wind farm to the grid, the company said Monday in a statement. It will begin installation in 2012 with grid connection scheduled to finish in 2013. The transmission network operator 50Hertz Transmission GmbH placed the order through its 50Hertz Offshore GmbH unit, the statement said. The 80-turbine wind plant off the German coast of Rostock near the island of Rugen is owned by Karlsruhe-based energy company EnBW Energie Baden-Wuerttemberg AG. "Generating power in the Baltic Sea is becoming increasingly more important," 50Hertz Offshore Managing Director Wolfgang Bogenrieder said. The company plans to continue expanding its transmission network to bring offshore wind power to Germany's southern industries, Bogenrieder said. The wind plant follows Baltic 1 that was completed by EnBW last month. As of June, Germany had 82 megawatts of installed offshore wind, the country's wind energy association said, and at present its Federal Maritime and Hydrographic Agency is appraising 81 wind facility applications.

[Source: Company/organisation statement](#)

## **TERRAWATT TO MANAGE CONSTRUCTION OF NIGERIA'S FIRST WIND FARM**

11 Oct 2010 / Wind / CONTRACTS & PROCUREMENT / Nigeria

Terrawatt Planungsgesellschaft mbH, a German engineering and project planning company, won a contract to supervise the construction of a 10-megawatt wind farm in Lamba-rimi, in Katsina State, Nigeria.

The 1.3 million-euro (\$1.8 million) contract was signed with the Nigerian government on Sept. 15, Klaus Kim Ko, Terrawatt's managing director, said in a telephone interview. The length of the contract is open-ended since Terrawatt is proposing to offer operation and maintenance services to the project as well as training to staff, Kim Ko said. Construction of the wind-energy plant will begin in the first week of November with completion expected in 30 months, Kim Ko said. In August 2009, French wind turbine manufacturer Vergnet was awarded a 20 million euros contract to supply and install 37 turbines at the farm. The project is financed by the Nigerian government and has no other other financial backers. Leipzig-based Terrawatt has also bid for a contract to conduct a feasibility study for the construction of three separate wind projects in Nigeria, Kim Ko said. The Nigerian government is currently evaluating about 20 bids from international companies interested in developing the projects, he said. The company has conducted a feasibility study for a wind farm in Kenya and has provided consultancy services to projects in Egypt and Morocco, Kim Ko said.

Source: Interview with Bloomberg New Energy Finance

## KEPPEL WINS 187-MILLION EURO CONTRACT FOR U.K. WASTE-TO-POWER

11 Oct 2010 / Biomass & Waste / CONTRACTS & PROCUREMENT / United Kingdom

Keppel Seghers Belgium NV and Keppel Seghers U.K. Ltd., subsidiaries of Singapore-based Keppel Integrated Engineering Ltd., won a 187.3 million-euro (\$261 million) contract to build the second phase of a waste-to-energy plant in northwest England.

The contract for the Runcorn II project in Cheshire was awarded by Taunton, southwest England-based Viridor Waste Management Ltd., a statement from Viridor said Monday. Keppel will provide technology to Runcorn II and build the plant. It is expected to begin working by 2014 to 2015, the statement said. It will be capable of treating up to 375,000 tons of household waste per year. Together Runcorn I and Runcorn II will be capable of treating 750,000 tons of waste annually and produce, at full capacity, 70 megawatts of electricity and 51 megawatts of heat, said the statement. "Construction of phase two will be coordinated with ongoing work on phase one which permits significant cost savings," Colin Drummond, chief executive officer of Viridor, said in the statement. "It will enable phase two to come on stream by 2014 to 2015 by which time large-scale energy-from-waste facilities will be cost competitive against landfill with landfill tax by then being 80 pounds per ton." Runcorn II is being funded from Viridor's own resources and requires an investment of about 160 million pounds (\$255 million), the statement said. This, it said, is in addition to the 34 million pounds of advanced and shared works for both phase one and phase two. Once both phases are operational Runcorn will be "one of the largest waste and renewable energy projects in the U.K.," the company said.

Source: Various

### NEX index as at 11 Oct 2010

Currency	Closing Value
NEX (\$)	213.03
NXEU (€)	160.82
NEXGB (£)	215.83
NEXJY (¥)	147.17

### MOST RECENT RESEARCH

## California's new energy storage law: non-binding

11 Oct 2010 - Analyst Reaction

On 29 September, California Governor Arnold Schwarzenegger signed into law Assembly Bill 2514, which aims to encourage a build-out of utility-scale energy storage on the state's grid. Originally drafted as a mandate that would have required utilities to add certain levels of new energy storage capacity

## Rare earth metal wars: drawing the battle lines

11 Oct 2010 - Analyst Reaction

This Analyst Reaction investigates the recent China-Japan dispute over rare earth metals - as well as China's longer-term strategy of constraining global supply - and what it could all mean for the clean energy and energy smart technologies industries.

## Japan's feed-in-tariff plans under the microscope

08 Oct 2010 - Analyst Reaction

Japan's Ministry of Trade, Economy and Industry has announced a draft feed-in-tariff scheme that could be implemented in 2012. Bloomberg New Energy Finance examines the draft and analyses the impact on each renewable energy sector.

## UPCOMING EVENTS

### Carbon Expo Australasia 2010

*Australia (Melbourne)*

Industry-hosted trade fair and conference for emissions intensive business and low carbon economy product and service providers across Australia.

11 Oct 2010 to 13 Oct 2010

### Cleantech Forum XXVIII New York

*United States (New York)*

Two day forum concentrating on an array of key cleantech resource efficiency categories like energy efficiency, transportation, smart grid, and water, among others but doing so from a finance angle.

12 Oct 2010 to 13 Oct 2010

### The Business of Plugging In 2010

*United States (Detroit, Michigan)*

Second annual plug-in electric vehicle conference bringing together leaders from the automotive, utility, academic, finance and new technology industries for business development, education and networking.

12 Oct 2010 to 14 Oct 2010

## **Advanced Energy Storage 2010**

*United States (San Diego CA)*

AES2010 will bring together the leaders of energy storage technologies and applications to identify and address the major issues surrounding the energy storage industry.

*12 Oct 2010 to 14 Oct 2010*

## **Innovate 10 - Connect for growth**

*United Kingdom (London)*

Innovate 10 is a networking conference and exhibition event for businesses to meet other businesses, government and academia with the aim of making innovation happen – creating opportunity and growth for the future.

*12 Oct 2010 to 22 Oct 2010*

## **Solar Power International 2010**

*United States (Los Angeles, CA)*

An annual solar conference and expo in North America evaluating PV, CSP, and other solar technologies.

*12 Oct 2010 to 14 Oct 2010*

## **The Politics & Economics of Climate Change**

*United States (Washington D.C)*

A conference bringing together members of national and state commissions, experts in technology, finance and engineering discussing the electric system's potential to accommodate variable power sources, and political actors aimed at guiding political forces toward solutions.

*13 Oct 2010 to 14 Oct 2010*

## **China Wind Power 2010**

*China (Beijing)*

*13 Oct 2010 to 15 Oct 2010*

## **New Energy Finance Insight Call-India H2**

*India*

This call takes place on October 14th 2010 at 8:00am BST. Bloomberg New Energy Finance's H2 India Insight Service Conference Call will look at past trends in Indian renewable energy and carbon markets and if new policy will lead to increase in new build.

*14 Oct 2010 to 14 Oct 2010*

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