

NOVEMBER 2009 NEWS SUMMARY

WIND

Constellation Energy agreed with Clipper Windpower, Inc. to acquire the Criterion wind project in Garrett County, Md. The \$140 million, 70 Mw project would be developed, constructed, owned and operated by Constellation Energy. Under terms of the agreement, Constellation Energy will purchase from Clipper Windpower the Criterion project and 28 of Clipper's 2.5 Mw Liberty wind turbines.

Rhode Island Gov. Don Carcieri will offer industry leaders an update on his plans to build a massive wind farm off Rhode Island's coast capable of providing 15 percent of the state's electricity needs at a American Wind Energy Association workshop.

Wind Works Power Corp. has submitted power contract applications for 8 wind energy projects representing a total of 100 Mw under the new Feed-in Tariff program as part of the Ontario (Canada) Power Authority initial launch period.

REpower Systems AG, a division of Suzlon Energy has signed contracts with EDF Energies Nouvelles and RES Canada for delivery of up to 954 Mw. The five wind energy projects are currently under development for Canadian province of Quebec.

Enel Green Power is partnering with Minnesota based, Geronimo Wind Energy to develop 4,000 Mw of wind projects in the upper Midwest and potentially other regions of the US.

First Wind commenced construction for the 25.5 Mw expansion of its Stetson Wind project in Maine. The project consist of the construction and operation of 17 additional GE 1.5 Mw wind turbines. When combined with the original Stetson Wind project that started commercial operations in Jan. 2009, the expansion will make it an 82.5 Mw clean, renewable energy facility.

US DOE gave Clemson University a \$45 mil grant to build a wind turbine drivetrain testing center at the university's Restoration Institute in North Charleston.

The Roth Rock project, a 50 mw complex being developed by Synergics Wind Energy LLC was approved by Maryland Public Service Commission. It will have 20 turbines on Backbone Mountain.

Enbridge Inc and Renewable Energy Systems Canada Inc. agreed to develop a 99 Mw wind energy project near Chatham, Ontario. Enbridge will have a majority interest in the \$285 mil USD project.

A-Power Energy Generation Systems, Ltd, Chinese wind-turbine maker & US Renewable Energy Group plan to develop a manufacturing plant in the US.

GC China Turbine Corp., manufacturer of 2 blade wind turbines, agreed to develop manufacturing capabilities in Yancheng, Jiangsu, China to build large utility scale turbines for offshore and coastal use in the area. Potential orders are expected at \$732 mil USD.

Juhl Wind Inc. began construction of the Grant County Wind Farm project located in the west central area of Minnesota. The \$40 mil project should be operational by the first quarter of 2010. Grant County Wind Farm is a classic Juhl Wind styled community based energy development that includes several local farmers and other area residents as part owners of the project. The project will produce 20 Mw of energy at capacity and uses 10 Suzlon S88 wind turbines. The project is interconnected with Otter Tail Power Company and Northern States Power (NSP) is purchasing the clean power.

The Kern County (CA) planning commission approved the Alta-Oak Creek Mojave wind project, a proposed 9,000 acre wind farm in Tehachapi by wind developer Terra-Gen. The Kern County Board of Supervisors is set to take the wind farm proposal on December 15th.

Renewable Energy Systems Americas Inc. (RES Americas) has finished the expansion of the Wild Horse Wind Facility in Kittitas County, Washington, adding 44 Mws for a total of 273 Mw.

First Wind LLC announced the first phase of its Milford Wind Corridor went online. Phase one has 97 wind turbines and will generate 203.5 Mws of electricity.

Wind Works Power Corp. has signed an option agreement to acquire a 100% interest in Ecsed, a 50 Mw wind energy project located in Hungary.

Siemens Energy has been awarded a \$270m order for 70 wind turbines for the Los Vergeles wind farm in Tamaulipas, Mexico. The farm will have a total installed rated capacity of more than 160 Mw.

Cannon Power Group has received \$19.4 mil in federal renewable energy grants to aid in completion of its 400-Mw Windy Point/Windy Flats wind farm project above the Columbia River near Goldendale, Washington. Cannon expects to receive more than \$170 mil in grants for the \$1 billion project.

NRG Energy, Inc. has acquired Bluewater Wind, an offshore wind development businesses, from Babcock & Brown and Arcadia Windpower.

Wind Works Power Corp. has signed an option agreement to acquire a 100% interest in Honelles, a 10 Mw wind energy project located in Belgium.

Suzlon Wind Energy Corp. has completed the Silver Sage Windpower Project, a Duke Energy wind farm in Cheyenne, Wyoming.

Enel Green Power (Italy) has bought a majority stake in two wind power projects in Italy with a total installed capacity of 64 Mws.

Just Energy has entered into a five-year agreement with Iberdrola Renewables to purchase renewable energy certificates sourced from a variety of wind farms in New York state.

Wind Works Power Corp. signed an agreement to increase their equity interest from 50% to 100% in Settlers Landing Wind Park, a 10 Mw wind energy project located near Pontypool, Ontario, Canada. The project will be construction ready in 2011.

The Iowa Utilities Board approved a plan by MidAmerican Energy to build wind turbines to generate up to 1,000 Mws of electricity in the state. They already produce around 1,350 Mws of wind power.

Horizon Wind Energy dedicated the start of operations at Blue Canyon V Wind Farm near the towns of Apache and Elgin in Oklahoma. It has an installed capacity of 99 Mws.

Energy Composites Corporation reached an agreement with the City of Wisconsin Rapids, WI to develop two parcels of land into a wind blade production facility.

Pavilion Energy Resources is a 10% equity partner in a joint venture to develop a wind energy project in multiple locations adjacent to its coastline in the Sea of Japan, Sea of Okhotsk and Pacific Ocean.

Harvard University has agreed to purchase 10 percent of annual electricity consumed on its Cambridge and Allston campuses from First Wind. Harvard will purchase 50% of the energy produced from First Wind's soon-to-be constructed wind farm in northern Maine for the next 15 years.

enXco started construction on the 50 Mw Linden Wind Project in Klickitat County, Washington. The wind farm is expected to be in operation in early 2010 and consists of 25 REpower MM92 turbines.

A-Power Energy Generation Systems Ltd., a China based manufacturer of wind turbines, has been designated to supply wind turbines to a China-US joint venture project with US Renewable Energy Group and Cielo Wind Power LP to develop a 600 Mw wind farm in West Texas.

The Southwest Power Pool, which previously omitted a proposed \$700 mil power line in western Kansas, critical for power transmission from wind farms, has told officials that it will hold off on omitting the project in order to study it further.

The Maldives' State Electric Company Limited, STELCO, have signed a 20-year agreement with Falcon Energy to build and operate a 75 Mw wind farm in Gaafaru island, North Male' atoll.

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SOLAR

Quantum Solar Energy Inc., plans to build an Irvine, CA plant to manufacture modules used to generate solar energy with \$20 mil equity investment from New Energy Systems LLC in Norway. Production of solar photovoltaic modules in Irvine could begin next spring.

First Solar sold a 21 Mw solar energy project in Blythe, California to NRG Energy, Inc. Project construction began in September and is expected to be completed by year-end. Plant electricity will be sold to Southern California Edison under a 20-year power purchase agreement.

Salt River Project selected Iberdrola Renewables Inc. to build and operate a 20 Mw solar PV power facility. The project has a scheduled 2011 on-line completion date.

Carlisle Area School District, Pennsylvania received an additional \$950,000 USD grant for its 1 Mw solar array. The project total cost is \$6 mil and will generate 15 percent of the school districts electricity.

Thin Film Solar Technology, a solar energy facility is under development near Cape Town, South Africa. It will have 40 Mw capacity and is expected to begin production in 2.5 years.

First Solar, Inc. signed a framework agreement with China towards development of the world's largest solar power plant in Inner Mongolia, China. Construction on the first phase (30 mw) of the 2 gigawatt solar power plant in June, 2010.

Suntech Power Holdings Co. Ltd. is slated to develop 20% of the 91 Mw of solar projects approved by China's Solar Rooftop Program. This program helps to increase energy efficiency of buildings.

Chatham University (PA) will receive a \$113,037 grant to purchase and install solar thermal systems for two residence halls on its Pittsburgh campus. Solar Tomorrow is the system manufacturer.

SunEdison received approval for a \$5 mil grant for a \$19.9 mil solar system at its Pittsburgh Plate Glass Co. facility in Carlisle, PA.

Borrego Solar Systems Inc. will receive a \$649,152 grant towards a \$2.3 mil solar photovoltaic system project for the Tasty Baking Co. in Pennsylvania.

Procter & Gamble activated a 1.1 Mw solar array at its Oxnard, Calif., paper plant. The array, should generate more than 1.9 mil kw hours of electricity during its first year, was installed by SunEdison.

The Union Distributing company unveiled rooftop solar energy plants at Union's Phoenix & Tucson (AZ) petroleum facilities. The combined 253-kilowatt solar project was installed by Solar Hawk Energy.

Solar Power Inc. will lead a 2.4 Mw expansion of solar capacity for Aerojet's Sacramento, CA site. When complete the total project will comprise of nearly 30,000 total panels over 22 tracking arrays.

Owens Corning & SunEdison activated a 440 kw roof-mount photovoltaic solar system at Owens Corning's Kearny, NJ manufacturing plant. It should produce more than 522,000 kw hrs in the first year.

Suntech Power Holdings Co., Ltd. will develop a 10Mw solar power plant in Dongtai, Jiangsu Province, China with partner Huadian New Energy Development Co., Ltd. Suntech will supply solar modules and design and manage the installation of the plant.

Solar Energy Initiatives, Inc. signed a contract securing land for the design, construction and operation of a solar park in California. Construction is estimated to begin in late 2010 on the 100 Mw project.

First Solar purchased a planned 115 Mw solar energy project, the Carrizo Energy Solar Farm, from Ausra. First Solar won't build the project but will use the land to change the layout of its nearby Topaz project, making it more wildlife friendly and increasing the chances that it will be approved.

The US DOE has awarded Argonne National Laboratory nearly \$2.7 mil in American Recovery and Reinvestment Act funding for three solar-energy related research projects.

Energy Innovations, Inc. was awarded a contract to install its high efficiency Sunflower system at Masdar City, located near Abu Dhabi in the United Arab Emirates.

Smith College (Northampton, MA) Campus Center is installing roof-top solar panels. The solar system will be financed through a Power Purchase Agreement with developer Community Energy, Inc.

The country of Morocco announced a \$9 billion solar energy plan that is anticipated to produce 38% of the country's installed power generation by 2020. The project will have five solar power generation sites throughout Morocco and will produce 2,000 Mw of electricity by 2020.

Sanyo has opened a plant near Salem, Oregon that will produce silicon ingots and wafers. The components will be used in the manufacture of Sanyo's HIT solar cells and modules.

BP Solar and Petra Solar plans to extend an existing collaboration to target utility grade, pole-mounted solar alternating current (AC) systems and plan to continue on-going development of the AC module products for other applications and markets.

SolarCity is part of a development group that is installing a solar power system in the Soaring Heights Community at Davis-Monthan Air Force Base in Arizona. The project will include 6 Mws of solar capacity in a combination of a ground-mounted photovoltaic system and rooftop solar systems that will be installed on about 900 residences. The system should produce more than 10 mil kw hrs of electricity annually.

12 European businesses have formed the Desertec Industrial Initiative, a sustainable energy initiative that will start with a huge solar project in the Sahara desert. The project aims to supply Europe with 15% of its energy needs by 2050 with a vast network of power plants and transmission grids across North Africa and the Middle East. Companies include Deutsche Bank, Siemens and the energy provider E.ON.

BIOENERGY

Canadian Pacific and Natural Resources Canada have partnered on a biodiesel fuel pilot project under the National Renewable Diesel Demonstration Initiative. It is the first time biodiesel will be used in Canadian cold-weather rail service.

Oklahoma State University was awarded a \$4.2 mil grant from the US Dept. of Agriculture to develop an efficient method of growing cellulosic ethanol feedstocks.

The US Departments of Agriculture and Energy awarded Purdue University a grant of \$933,883 to fund analysis of the global impacts of second generation biofuels in the context of other energy technologies and alternative economic and climate change policy options.

The US Departments of Agriculture and Energy selected projects for \$24 mil in grants to research and develop technologies to produce biofuels, bioenergy and high-value biobased products.

Ceres was awarded a \$5 mil grant by the US DOE to continue its advanced trait development project designed to increase biomass yields of energy grasses by as much as 40%.

Recent legislation requires fuel suppliers in Ireland to include 4 percent of biofuels in their annual sales beginning July of 2010.

The US DOE has awarded Arizona State University two grants for alternative energy research. The grants, totaling more than \$10 mil, are for work on a new class of high-performance metal-air batteries and the use of photosynthetic bacteria to produce automotive fuel from a combination of sunlight, water and carbon dioxide.

Waste Management, Inc. and Linde North America, a global gases and engineering company, announced that their joint venture company has begun producing renewable vehicle fuel at its facility located at the Altamont Landfill near Livermore, California. The facility is the world's largest landfill gas to liquefied natural gas plant.

Europe-based Gaia Energy has registered the incorporation of a US subsidiary with the State of Ohio and will locate its office in Wilmington. The company said it is actively pursuing opportunities in biomass and solar energies in Clinton County and neighboring areas in Ohio.

KLM did a test flight over the Netherlands partly fueled by camelina oil and hopes to adapt it for more wide-spread use over the next few years. Continental tested a combination of algae and jatropha, a tropical shrub, on a short flight earlier this year. And Japan Airlines tested a camelina mixture earlier this year. Camilla doesn't require modifications to either the engine nor the aircraft for use.

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ENERGY EFFICIENCY

The US DOE awarded \$30 mil USD for energy efficiency projects in Florida like energy retrofits on state buildings and electric car rebates. Maine also received \$9 mil USD to cover state energy efficiency projects and the Large Project Impact Fund for commercial projects.

Starbucks joined the US Green Building Council's LEED Volume Certification pilot program and expect at least 10 new LEED certified stores in the next six months.

REGULATORY

The country of Kenya, with the support of World Bank, French Development Agency, KfW of Germany and African Development Bank, will set up a \$2 bil (Sh150 billion) revolving fund. The money will be lent to the private sector to invest in commercially viable geothermal, solar and wind electricity production projects.

Edison International received approval from the California Public Utilities Commission to construct the Devers Palo Verde2 Transmission Line project. Once complete, the \$537 mil, 150-mile long transmission line project, will transmit 1.2 Gw of electricity from renewable sources to customers in Southern California. The transmission line project will interconnect renewable and conventional generation projects in the solar energy rich areas of Southeastern California. The project will support southwest state efforts to meet their respective renewable portfolio targets.

US Federal Energy Regulatory Commission approved a stimulus financing arrangement of \$161 mil USD for the Montana-Alberta transmission line to help connect consumers with renewable power sources. The 230-kilovolt line will run 214-miles from Great Falls, Montana to Lethbridge, Alberta. Tonbridge Power Inc will start construction in 2009, and have operation in the fourth quarter of 2010.

Wyoming's legislature is considering taxing wind energy development and generation. The Wyoming Power Producers Coalition, a consortium of 15 wind development companies is fighting such measures.

The US National Institute of Standards and Technology (NIST) held the first meeting of its Smart Grid Interoperability Panel (SGIP) and elected their Governing Board with representatives from 22 companies including Honeywell, American Electric Power, Lockheed Martin, Intel, Google, GE Energy.

SMART GRID

The New York Power Authority has secured \$720,000 in federal stimulus money to test new smart grid technology on transmission lines in the Massena and Chateaugay areas. The funds will pay for half of a \$1.5 million demonstration project to help the power authority better understand how adding wind power to the electric grid affects existing transmission infrastructure.

Seattle, WA Battelle Memorial Institute will receive a federal investment of \$89 mil to develop smart grid technologies for the Pacific Northwest Smart Grid Demonstration Project. The project will be used to install a smart grid framework, including a digital telecommunications network, substation automation and a robust distribution system infrastructure.

Southern California utilities received \$125 mil in stimulus funds from the US DOE for smart grid systems demonstrations and test energy storage projects. Los Angeles Department of Water and Power received \$60 mil and Southern California Edison Co. received \$40 mil to test out and collect data on smart grid programs. SoCal Edison was also given \$24 mil for its Tehachapi Wind Energy Storage Project, using an 8-Mw lithium ion battery technology.

Power Tagging received a grant by the National Science Foundation (NSF). The grant will be used towards the eGRID(tm) database development that provides the intelligence hub for all its deployments of smart grid mapping and security.

Duke Energy Corp. will recoup smart grid upgrade costs from its customers in Ohio through electric and natural gas rate increases.

US Dept of Energy will give \$127.5 mil of stimulus funds towards Sacramento's smart grid project, the State of California will match these funds. The project includes retrofitting buildings and installation of Smart meters and software to monitor energy usage.

Aclara announced that Mark Thompson, Vice-President of Strategic Communication Networks, has been elected by member companies of the Wi-Fi Alliance® to chair the newly formed Smart Grid task group. The Smart Grid task group will provide technical expertise to utilities and government officials on the properties of Wi-Fi® that make it suitable for the Smart Grid.

Swiss-Swedish engineering group ABB Ltd. will partner with Finnish energy company Fortum Oyj to design and install a large-scale smart grid in the new Stockholm Royal Seaport district in Stockholm.

The Orkney Registered Power Zone in the United Kingdom has been installed by Glasgow-based Smarter Grid Solutions. The UK's first smart grid system is to be switched on over the coming weeks.

ComEd will begin installing smart meters this month on homes and businesses in several Chicago-area suburbs. The program was approved October 14.

Echelon (ELON) and ELO Sistemas Electronicos of Brazil announced an alliance to bring smart grid solutions to Latin America. ELO Sistemas is a reseller of Echelon's NES smart grid system.

Lawrence Berkeley National Laboratory (CA) and Utility Integration Solutions have partnered together on open source software for use in smart grids. The California Energy Commission and Utility Integration Solutions are paying for the work.

Intelligent Grid Solutions, LLC has begun offering services to utility companies interested in pursuing smart grid enhancements.

Smart grid firm GridPoint has purchased Roanoke, Va.-based energy management company ADMMicro.

The City of Fulton, MO has received \$1.5 mil in stimulus funding from the US DOE for a new smart grid meter system. The project will replace all electric meters with two-way meters.

Pacific Gas and Electric is installing smart meters at a rate of 13,000 units a day and aims to have 10 mil meters deployed by 2012. The utility will have installed 3 mil smart meters by the end of this year.

Allele received a \$1.5 mil grant for a smart grid project that will expand its smart meter network in Minnesota by 8,000 units.

ON World Inc. has identified 133 smart grid projects in 45 US states and territories representing 60 mil households. Some states with mass smart meter rollouts include Arizona, California, Delaware, Florida, Georgia, Ohio, and Texas.

GridPoint, Inc. will provide storage management, renewable integration, and home energy management solutions for Sacramento Municipal Utility District's (SMUD) smart grid solar project in Virginia.

The City of Fort Collins, Colorado will receive a little over \$18 mil to help fund Smart Grid Projects. The funds will be used for installing 79,000 smart meters and in-home demand response systems, in-home displays, smart thermostats and air conditioning and water heater control switches. Automated transmission and distribution systems, and enhanced grid security are also included.

Infobility, Inc., which provides distributed intelligent agent software that enables utilities and communities to increase the efficiency and utilization of electric grid assets, has launched the field-test phase of a Smart Grid demonstration project in Marin County, California.

PPL Electric Utilities, a subsidiary of PPL Corporation was awarded a Federal grant to deploy smart grid technology that would benefit 60,000 Harrisburg, Pennsylvania area customers.

Hawaii is to receive \$5.3 mil in federal stimulus money that will be used for projects modernizing the state's power grids. The money will go toward Hawaiian Electric Co., Referentia, the University of Hawaii and the Hawaii Natural Energy Institute.

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GEOTHERMAL

Callabonna Uranium of Australia submitted three more Geothermal Exploration License Applications for an area of 1,479 km² in the Frome Embayment in South Australia. Callabonna holds 6 granted Geothermal Exploration Licenses covering 2,875km² in the same area. The Callabonna Energy project is on the proposed development route for a new 275 kV NEM powerline to connect the geothermal projects of the Cooper Basin and Paralana areas to potential markets.

Puna Geothermal, which runs Hawaii's only commercial geothermal plant on the Big Island, has been awarded three federal grants totaling up to \$5 mil and will use one of the grants to study geothermal resources along the east and southwest rift zones of Haleakala. Ormat Technologies has operated the 30 Mw Puna plant, which supplies almost a quarter of the Big Island's electricity needs, since 1993. General Electric Co. received a \$2 mil USD grant from the US DOE to develop a sensor for geothermal power generation. The sensor will provide temperature, pressure, strain and vibration information from inside geothermal wells.

AltaRock Energy received \$25 mil USD from the DOE for an "enhanced" geothermal demonstration project, Newberry, in Oregon. Newberry starts as a 30-Mw test facility that can expand to a 120 Mw plant within the next 2 years.

Indie Energy Systems Co. LLC won a \$2.45-mil US DOE grant to demonstrate its high-tech underground heat pumps.

In Australia, Geodynamics Ltd. will receive a A\$90 mil grant for its Cooper Basin geothermal project, Petratherm Ltd.'s MNGI Pty. Ltd. will receive a grant of A\$62.8 mil for its Paralana geothermal project.

Louisiana Geothermal received a \$5 mil Recovery Act grant for a geothermal power plant in Cameron Parish, LA. The proposed plant would generate 2-5 Mws of power.

Westernfield Holdings Inc. was awarded a \$152 mil contract for a geothermal power plant in Dominica. The island of Dominica will construct four geothermal plants producing 30 Mws of energy each.

GE Energy Financial Services has agreed to extend a US\$50 mil loan for Indonesia's largest geothermal power plant project in West Java. The loan, which is extended through its local subsidiary Star Energy, will support the financing of a 220 Mw plant in Pangalengan.

The Arizona Geological Survey received a \$17.8 mil grant from the US DOE to push geothermal energy production. The Arizona survey was awarded the money over three years to work with 40 other state geological surveys to create the National Geothermal Data System of state-specific geological information.

Nevada energy companies will receive nearly \$93 mil in federal grants to develop geothermal power. The money will fund 20 projects in Northern Nevada and nearly triple the number of geothermal power plants in Nevada from 21 to 60.

US Geothermal Inc. received the Conditional Use Permit from the Malheur County Planning Commission for construction of its proposed 22 net Mw geothermal power plant at Neal Hot Springs, Oregon.

US DOE announced \$338 mil in Recovery Act funding for the exploration and development of new geothermal fields and research into advanced geothermal technologies. These grants will support 123 projects in 39 states, with recipients including private industry, academic institutions, tribal entities, local governments, and DOE's National Laboratories. The grants will be matched more than one-for-one with an additional \$353 mil in private and non-Federal cost-share funds.

HYDROPOWER

The renewable energy arm of state-owned Philippine National Oil Co. (PNOC) is looking at about nine partners for its planned 11 hydropower projects in the country with a total capacity of about 300 Mws.

The AGL station at Bogong, a zero emission hydro plant, opened in Victoria. It has 140 Mw capacity, enough to power about 120,000 homes. The \$240 mil facility, the biggest hydroelectricity project in Australia in the past 25 years, uses recycled water from AGL's nearby McKay Creek power station.

Ohio Power & Light requested federal approval to study placement of hydropower facility at Griggs river basin. This study is expected to take 2-3 years and would consider a 4 Mw project.

Hydropower developer Comexhidro has proposed two hydroelectric projects with a combined capacity of 57 Mw in northern Mexico. Technical, geographical and hydrological studies are underway for the 7-Mw La Angostura project and the 50-Mw Puebla project.

The city of Angoon, Alaska has been granted a preliminary permit for the 20 Mw Ruth Lake hydropower project.

The US DOE approved up to \$13 mil in stimulus funding to help upgrade the generating capacity at ALCOA Inc.'s Tapoco powerhouse at Cheoah Dam in Graham County, NC. Funding will go to replace four 90-year-old Francis Turbines with four new high-efficiency stainless steel turbines, generators, and transformers, providing an additional 22 Mws of generating capacity.

The 10 Mw Lower Saint Anthony Falls hydroelectric project being built in Minneapolis, MN, owned by Brookfield Renewable Power and Spaulding Consultants, is at peak construction and should be completed by the end of 2010. The project will create 63,000 Mw hours of energy per year.

The US DOE selected two hydropower projects in Washington state to receive nearly \$5.5 mil in Recovery Act money. \$4.7 mil will go to Tacoma's public utilities department to add two turbines to Cushman Dam. \$800,000 will go to Energy Northwest for a new turbine at its Packwood Lake facility.

The US DOE announced that more than \$4 mil will be awarded to Los Alamos County, NM to pay for adding a low-flow turbine to the 13.8 Mw hydroelectric plant in Abiquiu. The upgrade is expected to increase annual power generation by 22 percent.

Alabama Power received \$6 mil in federal stimulus to improve hydropower projects. The money will be used to increase efficiency and upgrade 4 units at 3 hydroelectric dams on the Coosa River.

World Energy Research of Auckland, New Zealand has secured construction contracts and purchase power agreements for three new hydro electric projects in Guatemala.

PPL Corp. completed an \$81 mil deal to sell six dams in Maine to Black Bear Hydro Partners LLC. PPL will sell its stake in the dams at Milford, Orono, Stillwater, Ellsworth, Medway and West Enfield.

American Municipal Power Inc. is investing nearly \$2 billion on five hydropower projects on the Ohio River over the next five years. AMP will build the hydro plants on locks and dams operated by US Army Corps of Engineers.

Indian power utility Tata Power and SN Power, a Norway-based renewable energy company, have signed an exclusive partnership agreement to develop joint hydropower projects in India and Nepal. The partners aim to have 2,000 Mw under construction or in operation by 2015, and a total of 4,000 Mw by 2020.

The renewable energy arm of state-owned Philippine National Oil Co. (PNOC) is in talks with foreign and local investors for a plan to build 11 hydropower plants in the country with a total capacity of 300 Mws. The biggest of the hydro-power projects will be the 60-Mw Abuan facility in Ilagan, Isabela.