

Office of Energy Projects Energy Infrastructure Update

For April 2011

Natural Gas Highlights

- Exceleerate Energy announced on April 13 that it plans to retire its LNG import facility, Gulf Gateway Deepwater Port, which lies about 115 miles offshore Louisiana in the Gulf of Mexico.
- Transco placed into service its 85 North Expansion (Phase II) and Mobile Bay South Expansion II Projects. Transco's 85 North Expansion (Phase II) will provide 218.5 MMcf/d of additional capacity to shippers in Transco's Southeastern Market Area, while Transco's Mobil Bay South Expansion II Project will provide 380 MMcf/d of additional capacity on Transco's Mobile Bay Lateral in Alabama.
- CenterPoint Energy - MRT received authorization to reclassify 1.2 Bcf of cushion gas capacity as working gas capacity in its East and West Unionville Storage Fields, in Lincoln Parish, Louisiana.

Natural Gas Activities in April 2011

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	2			598.5	22.1	54,205
Certificated	0			0.0	0	0
Proposed	0			0.0	0	0
Storage						
Placed in Service	0	0.0	0			0
Certificated	1	1.2	0			0
Proposed	0	0.0	0			0
LNG						
Placed in Service	0	0	0			0
Certificated	0	0	0			0
Proposed	0	0	0			0

Source: Staff Database

Natural Gas Activities through April 30, 2011

Through April 30, 2010

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	8			5,403.5	661.6	390,735
through April 30, 2010	7			4,300.2	209.3	90,285
Certificated	2			688.0	20.5	59,265
through April 30, 2010	9			5,365.5	1,276.8	372,116
Storage						
Placed in Service	1	8.0	2,500			0
through April 30, 2010	3	22.1	800			0
Certificated	4	69.2	2,115			47,210
through April 30, 2010	4	31.7	600			9,500
LNG						
Placed in Service	1	9.84	1,000			0
through April 30, 2010	0	0	0			0
Certificated	0	0	0			0
through April 30, 2010	0	0	0			0

Source: Staff Database

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Hydropower Highlights

- On April 18, 2011, DHL staff issued an original license for CRD Hydroelectric, LLC's proposed 36.39-MW Red Rock Hydroelectric Project No. 12576. The proposed project would be located at the existing U.S. Army Corps of Engineers' Red Rock Dam on the Des Moines River, in Marion County, Iowa.
- On April 21, 2011, the Commission issued an original license to the City of Spearfish, South Dakota for the existing, unlicensed 4.0-MW Spearfish Hydroelectric Project No. 12775. The project is located on Spearfish Creek in Lawrence County, South Dakota.
- On April 15, 2011, the Nevada Irrigation District filed its relicense application for the 79.3-MW Yuba-Bear Project No. 2266. The applicant proposed to add a new powerhouse and turbine to increase the project's installed capacity by 11.4 MWs, for a total installed capacity of 90.7 MWs. The project is located on the Middle Yuba River, Canyon Creek, Rucker Creek, and Bear River watersheds in Nevada, Placer, and Sierra Counties, California. The current license will expire on May 1, 2013.
- On April 22, 2011, Coleman Hydro, LLC filed an application for an original license for the proposed 0.75-MW Coleman Hydroelectric Project No. 13629. The project would be located on Little Timber Creek, a tributary of the Lemhi River, near the Town of Leadore, in Lemhi County, Idaho.
- On April 29, 2011, Symbiotics filed license applications, on behalf of Uniontown Hydro, LLC and Newburgh Hydro, LLC, for the proposed 96.0-MW Uniontown Hydroelectric Project No. 12958 and the proposed 65.0-MW Newburgh Hydroelectric Project No. 12962. The Uniontown Hydroelectric Project would be located at the existing U.S. Army Corps of Engineers' John T. Myers Locks and Dam on the Ohio River near Uniontown, Kentucky. The Newburgh Hydroelectric Project would be located at the existing U.S. Army Corps of Engineers' Newburgh Locks and Dam on the Ohio River near Newburgh, Indiana.
- On April 21, 2011, the County of Los Alamos, New Mexico began commercial generation with a turbine-generator unit that was added to the two existing units at the Abiquiu Project, FERC Project No. 7396. This resulted in a capacity increase of 3.0 MW for SFRO's licensed projects.

Hydropower Activities in April 2011

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	4	173.150	0	0	0	0	4	173.150
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	2	16.900	0	0	0	0	2	16.900
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	2	40.390	0	0	0	0	2	40.390
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Placed in Service								
License	0	0	0	0	0	0	0	0
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	1	3.000	0	0	0	0	1	3.000
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database

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Hydropower Activities Year to Date (through April 30, 2011)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	8	258.4225	0	0	0	0	8	258.4225
5-MW Exemption	4	1.346	0	0	0	0	4	1.346
Capacity Amendment	4	20.270	0	0	0	0	4	20.270
Conduit Exemption	1	0.075	0	0	0	0	1	0.075
Issued								
License	3	46.390	0	0	0	0	3	46.390
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	6	12.618	0	0	0	0	6	12.618
Conduit Exemption	2	0.350	0	0	0	0	2	0.350
Placed in Service								
License	0	0	0	0	0	0	0	0
5-MW Exemption	1	0.065	0	0	0	0	1	0.065
Capacity Amendment	1	3.000	0	0	0	0	1	3.000
Conduit Exemption	3	1.340	0	0	0	0	3	1.340

Source: Staff Database

Electric Generation Highlights

- Sacramento inaugurated the region's largest private solar power installation, a 3-MW project that supplies electricity to Depot Park business complex, the former Sacramento Army Depot. The 12,600-panel array on the Brownfield site will produce 40% of the electricity needs at Depot Park. This installation is the only one located at a Superfund Site within a redeveloped military facility.
- An array of 6,152 solar panels on the roof of the Emmett J. Bean Federal Center in Indianapolis has begun generating. GSA said the project will save \$475,000 a year or 20% of the Bean Center's utility bills.
- The expansion of Riverside Energy Resource Center Units 3 & 4 in Riverside, California came online. The gas-fired peaking units are 48 MW each, totaling 96 MW of capacity. The project uses recycled water from the city's adjacent wastewater treatment plant for cooling.
- The 3.2 MW SX Renewable Energy Generation Facility in Lafayette, New Jersey has begun operation. The facility captures landfill gas to fuel two generator sets to generate power to sell to the electricity grid.
- Midland Gas-to-Energy facility in Midland, Michigan has begun operation. This renewable project captures methane from the city's landfill to fuel electricity generation which is used to power the city's wastewater treatment and water treatment plant, saving the city \$400,000 in the first year.
- SolFocus with partners Bechtel Power Corp and Sol Orchard completed the 1-MW high concentrator photovoltaic (CPV) power plant for the Nichols Farms in Hanford, California. This installation is the latest in a string of utility-scale distributed generation projects by SolFocus, which will produce 2,244 MWh in the first year, roughly 70% of the pistachio processing facility electricity demand. Nichols Farms processes pistachios for the farmers throughout the Central Valley of California. This CPV agribusiness project is the first of its kind in North America.
- A subsidiary of Consolidated Edison, Con Edison Development, has announced the completion of its 2-MW photovoltaic solar farm in New Bedford Business Park. This 7,000 solar panel facility, Massachusetts' largest solar farm, is expected to provide electricity to 2,000 households.
- Chevron Mining Inc. has installed a 1-MW CPV at its molybdenum mine in Questa, New Mexico, demonstrating a practical use of previously impacted land. The Questa solar field covers 20 acres, includes 173 Soitec solar trackers that are about 18 feet by 21 feet in size. The electricity generated will be sold to Kit Carson Electric Cooperative.

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New Generation In-Service (New Build and Expansion)

Primary Fuel Type	April 2011		January – April 2011 Cumulative		January – April 2010 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	3	615	10	2,301
Natural Gas	2	96	12	955	39	2,072
Nuclear	0	0	0	0	0	0
Oil	0	0	0	0	2	4
Water	1	3	5	4	6	17
Wind	0	0	30	1,080	24	1,033
Biomass	5	7	23	48	34	100
Geothermal Steam	0	0	1	8	0	0
Solar	10	14	42	115	10	20
Waste Heat	0	0	0	0	0	0
Other	0	0	7	20	0	0
Total	18	120	123	2,845	125	5,547

Source: Data derived from Ventyx Global LLC, Velocity Suite.

Total Installed Operating Generation Capacity

Primary Fuel Type	Installed Capacity (GW)	% of Total Capacity
Coal	344.45	30.40%
Natural Gas	469.34	41.42%
Nuclear	106.37	9.39%
Oil	52.71	4.65%
Water	99.08	8.75%
Wind	41.18	3.63%
Biomass	13.38	1.18%
Geothermal Steam	3.37	0.30%
Solar	1.25	0.11%
Waste Heat	0.82	0.07%
Other	1.04	0.09%
Total	1,133.00	100.00%

Source: Data derived from Ventyx Global LLC, Velocity Suite.

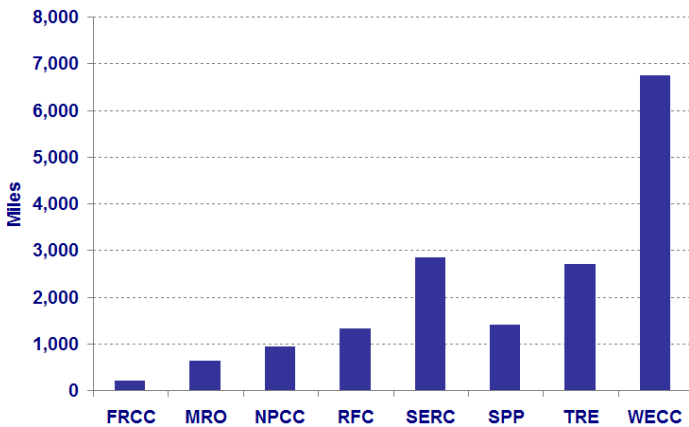
Electric Transmission Highlights

- On April 13, American Transmission Co. and Duke Energy announced the formation of a joint venture called Duke-American Transmission Co. (DATC). DATC will seek to build electric transmission projects across North America.
- On April 20, Paul Manson, Sea Breeze President and CEO, announced that the Juan de Fuca project has all of its major permits and just needs to arrange commercial financing contracts in order to start construction. The Juan de Fuca project is a 31 mile, 550-MW, high voltage direct-current underwater transmission line between Victoria, British Columbia, and Port Angeles, Washington.
- On April 27, high winds and tornadoes caused 25, 500-kV transmission lines to go out of service in central and northern Mississippi, northern Alabama and southeast Tennessee. It also resulted in the shutdown of the Browns Ferry nuclear plant in Alabama due to damage to the surrounding transmission system.

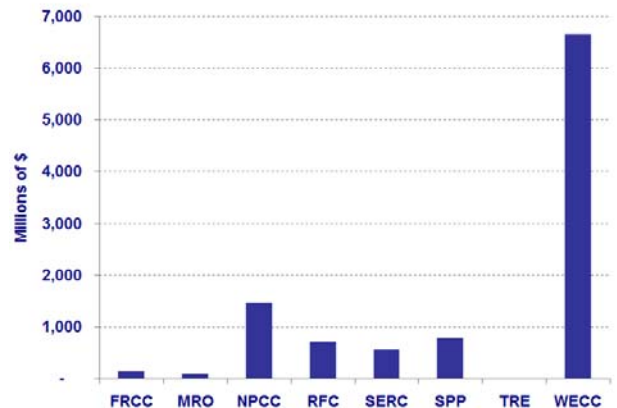
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Voltage (kV)	Transmission Projects Completed		Proposed Transmission Projects In-Service by April 2013	
	April 2011	April 2010	High Probability of Completion	All
	Line Length (miles)			
≤230	0	95.5	3,903.0	6,509.4
345	0	73.7	3,632.2	5,279.3
500	0	27.0	1,688.6	4,978.3
765	0	0	0	0
Total U.S.	0	196.2	9,223.8	16,767.0

Transmission Projects with a Proposed In-Service Date by April 2013



Projected Investment Cost of Transmission Projects with a Proposed In-Service Date by April 2013



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2011 The C-Three Group, LLC

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