



Office of Energy Projects Energy Infrastructure Update For August 2014

Natural Gas Highlights

- WBI Energy placed into service its Garden Creek II Pipeline Project which will provide 75 MMcf/d of capacity from the tailgate of the Garden Creek II Plant to an interconnection with Northern Border in McKenzie County, ND.
- TransCanada Alaska filed a letter with the Commission terminating the pre-filing review process of its Alaska Pipeline Project which would have provided 4,500 MMcf/d of capacity to the lower U.S.
- Columbia Gas received authorization to construct and operate its Line 1655 North Project which will improve the reliability and safety of Line 1655 in Adams County, PA., and provide 15.7 MMcf/d of capacity for one shipper.
- Transco received authorization to construct and operate its Woodbridge Delivery Lateral Project which will provide 264 MMcf/d of capacity to the Woodbridge Energy Center's proposed electric generation facility in Woodbridge, NJ.
- Southeast Supply Header received authorization to construct and operate its SESH Expansion Project. This project will provide 45 MMcf/d of additional mainline capacity between Delhi, LA., and Coden, AL.
- Downeast LNG and Downeast Pipeline commenced the Commission's pre-filing process to construct and operate an LNG export terminal (450 MMcf/d) in Robbinston, ME., and pipeline facilities to provide an additional 100 MMcf/d of bi-directional capacity on Downeast Pipeline's proposed system to serve the proposed terminal.

Natural Gas Activities in August 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	2			80.0	16.0	0
Certificated	3			324.7	6.6	8,000
Proposed	1			100.0	0	0
Storage						
Placed in Service	0	0.0	0			0
Certificated	0	0.0	0			0
Proposed	0	0.0	0			0
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Export)	0	0	0			0
Proposed (Export)	1	3.4	450			0

Source: Staff Database

Natural Gas Activities through August 31, 2014

Through August 31, 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	9			888.2	73.9	30,950
through August 31, 2013	13			1,860.3	104.7	77,840
Certificated	22			6,176.6	228.6	221,623
through August 31, 2013	17			3,196.6	103.7	61,550
Storage						
Placed in Service	5	17.25	110			4,800
through August 31, 2013	12	41.1	2,282			56,620
Certificated	3	1.2	0			2,500
Through August 31, 2013	11	31.6	766			9,240
LNG (Import & Export)						
Placed in Service	0	0	0			0
through August 31, 2013	0	0	0			0
Certificated (Export)	3	3.4	4,060			0
through August 31, 2013	0	0	0			0

Source: Staff Database



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Hydropower Highlights (nonfederal)

- The Sabine River Authority of Texas and Sabine River Authority, State of Louisiana were issued a new license for the existing Toledo Bend Hydroelectric Project No. 2305. The license authorizes an increase in total capacity from 81.0 MW to 82.3 MW. The project is located on the Sabine River in Panola, Shelby, Sabine, and Newton Counties, TX, and DeSoto, Sabine, and Vernon Parishes, LA.
- Portland General Electric (PGE) was issued an amendment to its license to install new generating facilities at its Clackamas River Project No. 2195 located in Clackamas County, OR. The new facilities will increase the project's authorized capacity by 3.89 MW and will generate power using minimum flows already required by PGE's new license issued in 2010.
- Monroe Hydro, LLC was issued a Conduit Exemption for the 0.30 MW Monroe Drop Hydroelectric Project No. 14430, located on U.S. Bureau of Reclamation's North Unit Irrigation District's Main Canal near the town of Culver in Jefferson County, OR. The project will have an annual generation of 1.004 gigawatt-hours.
- The City of Watervliet filed an original license application for the proposed 5.0 MW Delta Hydroelectric Project No. 13135. The project would be located at the New York State Canal Corporation's Delta Dam, on the East Branch of the Mohawk River in the Town of Rome, Oneida County, NY.

Hydropower Activities in August 2014

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	5.000	0	0	0	0	1	5.000
10-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
Issued								
License	1	1.300	0	0	0	0	1	1.300
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	1	3.890	0	0	0	0	1	3.890
Conduit Exemption	1	0.300	0	0	0	0	1	0.300
Placed in Service								
License	0	0	0	0	0	0	0	0
10-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

Source: Staff Database

Hydropower Activities Year to Date (through August 31, 2014)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	13	177.800	0	0	0	0	13	177.800
10-MW Exemption	2	1.800	0	0	0	0	2	1.800
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	2	49.400	0	0	0	0	2	49.400
Issued								
License	7	137.220	3	1,736.000	1	0.600	11	1,873.820
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	2	5.185	0	0	0	0	2	5.185
Conduit Exemption	1	0.300	0	0	0	0	1	0.300



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Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Placed in Service								
License	3	11.805	0	0	0	0	3	11.805
10-MW Exemption	1	0.700	0	0	0	0	1	0.700
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database

Electric Generation Highlights

- Mississippi Power Company's 840 MW Plant Ratcliffe project in Kemper County, MS is online. Plant Ratcliffe is fueled by coal derived synthetic gas.
- OCI Alamo 4 LLC's 42 MW OCI Alamo 4 Solar project in Kinney County, TX is online. The power generated is sold to CPS Energy under long-term contract.
- Two SunEdison's solar projects in Fresno County, CA are online: 2.1 MW Coalinga State Hospital Solar project and 1.3 MW Pleasant Valley State Prison Solar project. The power generated at each project is used on-site.
- Two Panda Power Funds' natural gas-fired power plants in TX are online: 720 MW Panda Sherman Power Plant project in Grayson County, and 717 MW Panda Temple project in the City of Temple.
- Four Strata Solar LLC's solar projects in NC are online: 6.4 MW Eastover project in Scotland County, 6.4 MW Soluga 2 project in Bladen County, 5.3 MW Erwin Farm project in Harnett County, and 5.3 MW Nash 64 Solar Farm project in Nash County. The power generated from all four projects is sold to Duke Energy Progress under long-term contracts.
- BWC Origination 3 LLC's 1.8 MW Sullivan's Ledge Solar Facility project in Bristol County, MA is online.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	August 2014		January – August 2014 Cumulative		January – August 2013 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0	2	1,543
Natural Gas	4	2,277	26	5,188	67	6,586
Nuclear	0	0	0	0	0	0
Oil	0	0	4	23	11	35
Water	0	0	7	141	13	116
Wind	0	0	23	1,246	10	963
Biomass	0	0	32	130	68	209
Geothermal Steam	0	0	5	32	1	14
Solar	12	68	163	1,510	178	1,511
Waste Heat	0	0	0	0	2	76
Other	0	0	2	1	2	0
Total	16	2,345	262	8,271	354	11,054

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



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Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	328.23	28.20%
Natural Gas	490.12	42.11%
Nuclear	107.41	9.23%
Oil	46.41	3.99%
Water	98.36	8.45%
Wind	61.94	5.32%
Biomass	16.03	1.38%
Geothermal Steam	3.87	0.33%
Solar	9.55	0.82%
Waste Heat	1.13	0.10%
Other	0.80	0.07%
Total	1,163.84	100.00%

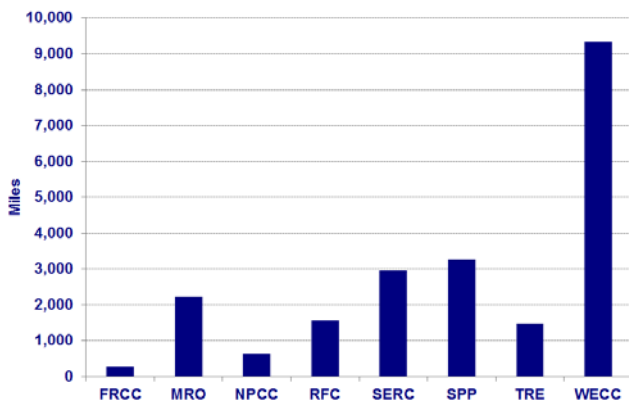
Source: Data derived from Ventyx Global LLC, Velocity Suite.

Electric Transmission Highlights

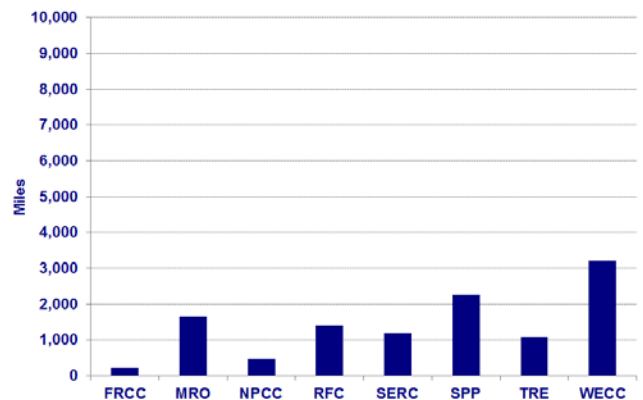
- Great River Energy has completed the 3 mile, 115 kV LeSauk - Sartell Transmission Line. The \$1.4 million project is located in MN.

Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by August 2016	
	August 2014	August 2013	January – August 2014 Cumulative	January – December 2013 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	3.0	14.0	291.0	470.2	4,224.5	7,608.6
345	0.0	547.5	669.3	2,795.2	4,953.6	7,711.2
≥500	0.0	111.0	62.0	466.0	2,326.7	6,396.0
Total U.S.	3.0	672.5	1,022.3	3,731.4	11,504.8	21,715.8

All Transmission Projects with a Proposed In-Service Date by August 2016



Transmission Projects with a High Probability of being completed by August 2016

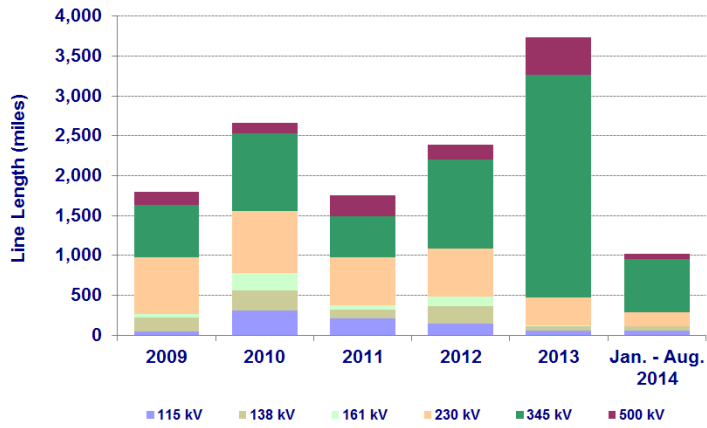


Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2014 The C Three Group, LLC



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New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2014 The C Three Group, LLC

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