



Office of Energy Projects Energy Infrastructure Update For June 2015

Natural Gas Highlights

- Houston Pipe Line received authorization to place into service its border crossing facilities located at the International Boundary between the U.S. and Mexico in Hidalgo County, TX. These facilities will provide 140 MMcf/d of capacity to export and/or import gas to and from Mexico.
- Florida Gas received authorization to place into service its Pompano Compressor Station 21.5 Project which will provide 25 MMcf/d of capacity to Florida Gas & Light to service its Port Everglades Next Generation Clean Energy Center located in Broward County, FL.
- Ozark Gas received authorization to abandon by sale to an affiliate 159 miles of mainline pipeline in AR for conversion to a refined petroleum products pipeline.
- Gulf South Pipeline received authorization under the Commission's prior notice process to increase the working gas capacity of Cavern 12A by 1.02 Bcf at its Petal Storage facility located in Forrest County, MS.
- Northern Natural received authorization under the Commission's prior notice process to construct and operate its Permian Expansion II Project which will provide 112 MMcf/d of capacity to its system for markets in TX.
- WBI Energy commenced the Commission's pre-filing process to construct and operate its Demicks Lake Pipeline Project which would provide 221.5 MMcf/d of capacity to ONEOK Rockies Midstream's proposed Demicks Lake gas plant to be located west of Keene, ND.
- Corpus Christi LNG and Corpus Christi Pipeline commenced the Commission's pre-filing process to construct and operate Trains 4 and 5 (providing 1,400 MMcf/d of deliverability) at the export terminal currently under construction in Corpus Christi, TX, and pipeline facilities which would provide 1,500 MMcf/d of bi-directional capacity to the terminal.
- Natural requests authorization to construct and operate its Chicago Market Expansion Project which would provide 238 MMcf/d of northbound capacity on its existing system for delivery to markets in the Chicago, IL area.
- Southern Star requests authorization under the Commission's prior notice proceeding to construct and operate its Line XMAA Expansion Project which would provide 24 MMcf/d of capacity on its existing Line XMAA system in MO.
- Texas Gas requests authorization to construct and operate its Northern Supply Access Project which would provide 384 MMcf/d of bi-directional capacity on its existing system in OH to markets in the Midwest and Gulf Coast region.
- Columbia Gas requests authorization to construct and operate its Leach XPress Project which would provide 1,530 MMcf/d of capacity on portions of its existing pipeline system in WV and OH.
- Gulf South requests authorization to construct and operate its Coastal Bend Header Project which would provide 1,420 MMcf/d of capacity to serve the Freeport LNG export facility near Freeport, Brazoria County, TX..
- Freeport LNG commenced the Commission's pre-filing process to construct and operate Train 4 at its export terminal, currently under construction, near the City of Freeport, TX. Train 4 would provide 720 MMcf/d of deliverability.
- Freeport LNG requests authorization to increase its authorized maximum peak-day LNG production capacity by 340 MMcf/d at its export terminal, currently under construction, near the City of Freeport, TX.
- Tennessee Gas requests authorization to construct and operate its Triad Expansion Project which would provide 180 MMcf/d of capacity to its 300 Line system for delivery to a proposed generation facility in Lackawanna County, PA.
- Gulf LNG Liquefaction requests authorization to construct and operate an LNG export terminal near Pascagoula, Jackson County, MS. The proposed terminal would provide a deliverability of 1,500 MMcf/d.
- American Midstream requests authorization to construct and operate its Natchez Pipeline Project which would provide 48.3 MMcf/d of capacity in LA and MS, all under a settlement approved in Docket Nos. RP14-638, et al.

Natural Gas Activities in June 2015

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	2			165.0	1.3	22,000
Certificated	1			112.0	0.0	15,900
Proposed	9			5,545.8	330.2	344,010
Storage						
Placed in Service	0	0.0	0.0			0
Certificated	1	1.02	0.0			0
Proposed	0	0.0	0.0			0



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LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Import/Export)	0	0	0			0
Proposed (Export)	4	3.4	3,960			0

Source: Staff Database

Natural Gas Activities through June 30, 2015 Through June 30, 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	10			3,080.7	67.5	106,095
Through June 30, 2014	6			578.2	50.3	30,950
Certificated	18			5,531.0	282.2	207,573
through June 30, 2014	16			5,742.2	189.2	204,153
Storage						
Placed in Service	2	2.4	53			0
through June 30, 2014	5	17.25	110			4,800
Certificated	2	2.7	0			0
through June 30, 2014	2	1.2	0			500
LNG (Import & Export)						
Placed in Service	0	0	0			0
through June 30, 2014	0	0	0			0
Certificated (Import/Export)	1	0	1,400			0
through June 30, 2014	2	3.4	2,260			0

Source: Staff Database

Hydropower Highlights (nonfederal)

- Lock Hydro Friends Fund XLII was issued an original license for the proposed 5.25 MW Braddock Locks and Dam Hydroelectric Project No. 13739. The project will be located at the U.S. Army Corps of Engineers' Braddock Locks and Dam on the Monongahela River in the borough of West Mifflin and city of Duquesne, Allegheny County, PA.
- Public Utility District No. 1 of Snohomish County, WA, was issued original licenses for the proposed 6.0 MW Hancock Creek Hydroelectric Project No. 13994 and 6.0 MW Calligan Creek Hydroelectric Project No. 13948. The projects will be located on Hancock and Calligan Creeks near the city of North Bend, King County, WA.
- New England Hydropower Company, LLC filed a small-hydro exemption from licensing application for the proposed 0.192 MW Hanover Pond Dam Hydroelectric Project No. 14550. The project would be located at the city of Meriden's Hanover Dam on the Quinnipiac River in New Haven County, CT.

Hydropower Project Activities in June 2015

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	0	0	0	0	0	0	0	0
10-MW Exemption	1	0.192	0	0	0	0	1	0.192
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	3	17.250	0	0	0	0	3	17.250
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



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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	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 Project Activities Year to Date (through June 30, 2015)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	2	5.600	1	240.000	0	0	3	245.600
10-MW Exemption	1	0.192	0	0	0	0	1	0.192
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	3	17.250	0	0	0	0	3	17.250
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
Placed in Service								
License	0	0	1	21.250	0	0	1	21.250
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

Electric Generation Highlights

- Lost Hills Solar LLC and Blackwell Solar LLC's 32 MW Lost Hills Solar Project in Kern County, CA is online. The power generated is sold to Roseville Electric under long-term contract.
- Fremont Solar LLS's 8 MW Fremont Solar Project in Lake County, OR is online. The power generated is sold to Portland General Electric Co. under long-term contract.
- NextEra Energy Resources LLC's 20 MW Shafter Solar Project in Kern County, CA is online.
- Solid Waste Authority of Palm Beach's 95 MW municipal solid waste-to-energy North County Regional Resource Project in Palm Beach County, FL is online. The power generated is sold to Florida Power & Light under long-term contract.
- Stephens Ranch Wind Energy II LLC's 165 MW Stephens Bor Lynn Wind Expansion Project in Borden County TX is online. Phase 1 with 210 MW came online in December 2014.
- Cannon Power Corp and Sempra Generation's 155 MW Energia Sierra Juarez Wind Project in Baja California is online. The power generated is sold to San Diego Gas and Electric Co. under long-term contract.
- HP Hood LLC's 15 MW natural gas-fired HP Hood Cogeneration Qualifying Facility Project in Frederick County, VA is online. Excess power generated will be sold into PJM Wholesale Market.



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New Generation In-Service (New Build and Expansion)

Primary Fuel Type	June 2015		January – June 2015 Cumulative		January – June 2014 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	1	3	0	0
Natural Gas	1	15	21	1,173	29	2,835
Nuclear	0	0	0	0	0	0
Oil	0	0	0	0	6	18
Water	0	0	1	21	7	144
Wind	3	320	18	1,969	23	884
Biomass	1	95	7	128	35	137
Geothermal Steam	0	0	1	45	6	34
Solar	5	62	71	549	173	1,404
Waste Heat	0	0	0	0	2	75
Other	0	0	5	0	3	1
Total	10	491	125	3,888	284	5,532

Sources: Data derived from Velocity Suite, ABB Inc., and The C Three Group LLC

Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	311.66	26.83%
Natural Gas	495.45	42.66%
Nuclear	106.89	9.20%
Oil	44.97	3.87%
Water	100.06	8.61%
Wind	67.82	5.84%
Biomass	16.31	1.40%
Geothermal Steam	3.91	0.34%
Solar	12.49	1.08%
Waste Heat	1.11	0.10%
Other	0.77	0.07%
Total	1,161.44	100.00%

Sources: Data derived from Velocity Suite, ABB Inc., and The C Three Group LLC

Electric Transmission Highlights

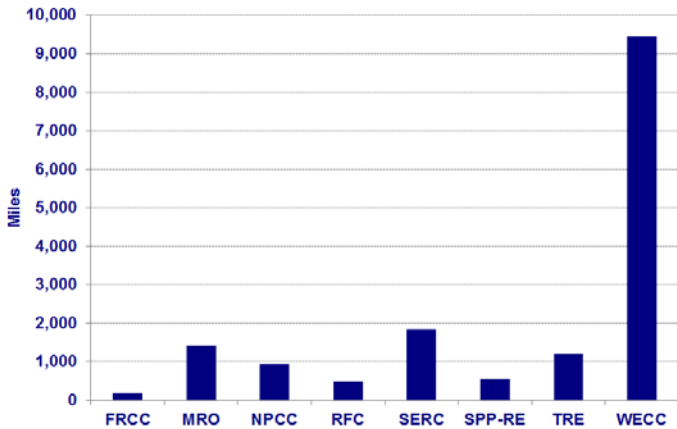
- FirstEnergy has completed the 115 mile, 345 kV Bruce Mansfield – Glenwillow Transmission Line. The \$151 million interstate project connects OH and PA.
- Dominion has completed the 28.2 mile, 230 kV North Anna – Spotsylvania Transmission Line in VA.
- Dominion has completed the 19.8 mile, 230 kV Harrisonburg – Endless Caverns Transmission Line in VA.
- Dominion has completed the 8 mile, 230 kV Cannon Branch – Cloverhill Transmission Line in VA.
- Lincoln Electric has completed the 6 mile, 115 kV SW7th and Bennet – 40th and Rokeby Transmission Line in NE.
- Dominion has completed the 5.8 mile, 230 kV Liberty – Cloverhill Transmission Line in VA.
- FirstEnergy has completed the 1 mile, 138 kV Bluebell – New Berlin Lake Transmission Line in OH.
- FirstEnergy has completed the 1 mile, 138 kV Niles – New Berlin Lake Transmission Line in OH.
- FirstEnergy has completed the 0.6 mile, 115kv and 230 kV Four Mile Junction Project in PA.
- Duke Energy has completed the 0.1 mile, 138 kV Summerside – Cornell Transmission Line in OH.
- Duke Energy has completed the 0.1 mile, 138 kV Union – Cornell Transmission Line in OH.



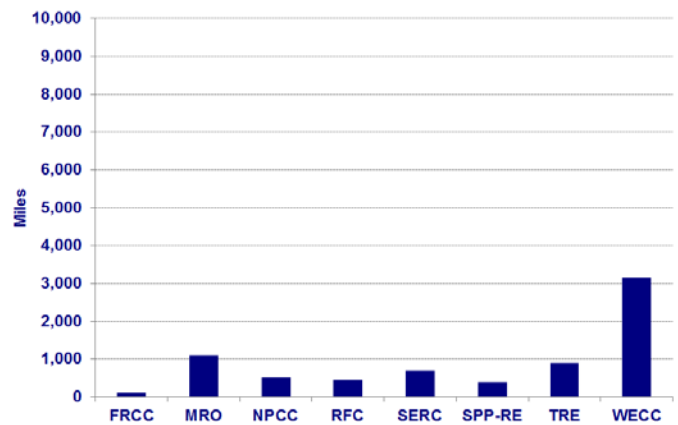
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Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by June 2017	
	June 2015	June 2014	January – June 2015 Cumulative	January – December 2014 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	212.6	70.1	116.4	1,218.5	3,037.7	5,358.2
345	66.3	115.0	556.7	1,659.8	2,099.9	3,780.7
500	8.0	0.0	256.0	70.0	2,173.0	6,916.0
Total U.S.	286.9	185.1	929.1	2,948.3	7,310.6	16,054.9

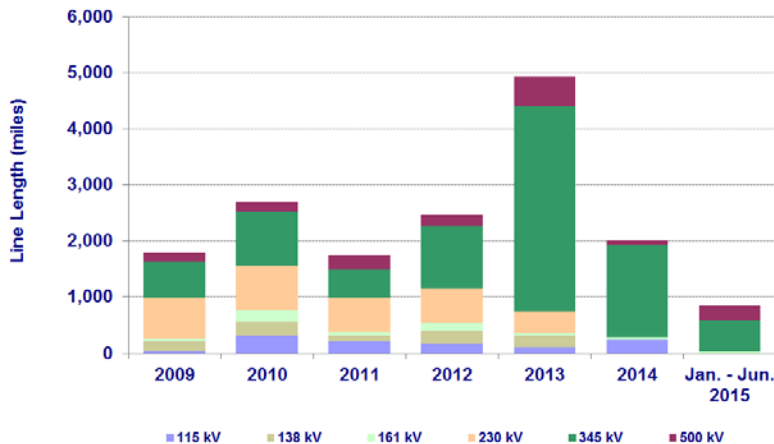
All Transmission Projects with a Proposed In-Service Date by June 2017



Transmission Projects with a High Probability of being completed by June 2017



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2015 The C Three Group, LLC
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