



Office of Energy Projects Energy Infrastructure Update *For June 2017*

Natural Gas Highlights

- Florida Gas Transmission received authorization to place into service 8.7 miles of pipeline for the Jacksonville Expansion Project in Northern FL.
- Florida Southeast Connection received authorization to place into service 126 miles of pipeline for the FSC Expansion Project in Central FL.
- Equitrans received authorization to place into service the TP-371 Pipeline Replacement Project in Armstrong and Indiana Counties, PA.
- Perryville Gas Storage received authorization to place into service Well PGS-2 and the associated 7.5 Bcf storage cavern at the Crownsville Salt Dome Storage Project in Franklin Parish, LA.
- Northern Natural received authorization to construct and operate two new 30-and-36 inch mainline pipeline extension segments totaling 2.25 miles and to abandon short pipeline segments in Dakota County, MN, and Worth County, IA.
- ANR received authorization to change the maximum operating pressure for its Line 8230 in Clare County, MI
- Guthrie Natural Gas received approval for its service area determination request in KY and TN, for its requests that it qualifies as a local distribution company, and for a waiver of accounting and reporting requirements.
- Texas Eastern received authorization to abandon 166 miles of its Line 1 in Fayette and Pickaway Counties, OH, Green and Greene Counties, PA, and Marshall County, WV.
- Navitas received approval for its service area determination request in KY and TN, for its request that it qualifies as a local distribution company, and for a waiver of accounting and reporting requirements.
- National Fuel received authorization to convert two observation wells to injection/withdrawal wells, and to install two well lines within its Beech Hill Storage Field in Allegany County, NY. There will be no changes to physical storage field parameters.
- Rover requests approval install a third compressor at its Majorsville Compressor Station in Marshall County, WV. The new unit would add 3,550 HP of compression and increase capacity by 100 MMcf/d.
- Northern requests authorization to construct the Bakersfield Compressor Station Project, including 11,152 HP of compression, and 1.45 miles of new pipeline with a 200 MMcf/d capacity in Pecos County, TX.
- Florida Southeast Connection requests authorization to construct its Okeechobee Lateral Project, a 5.2 mile pipeline that will supply a new powerplant in Okeechobee County, FL.
- Texas Eastern requests authorization to excavate, elevate, and replace sections of four different pipelines in Marshall County, WV due to planned longwall mining activities.
- Columbia Gas requests authorization to construct and operate a new well at its Pavonia Storage Field in Ashland and Richland Counties, OH.
- Dominion Energy request for authorization to plug and abandon three wells and associated pipelines at its Oakford Storage Complex in Westmoreland County, PA.
- WBI Energy requests authorization to abandon its Billy Creek Storage Field in Johnson County, WY.
- Freeport LNG seeks authorization to build the Train 4 Project, to liquefy up to 680 MMcf/d of natural gas for export at its Quintana Island LNG Terminal in Brazoria County, TX



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Natural Gas Activities in June 2017

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	3			655	135	5,000
Certificated	1			0	2.25	0
Proposed	5			900	6.95	24,702
Storage						
Placed in Service	1	7.5	600.0			9,500
Certificated	0	0.0	0.0			0
Proposed	3	0.0	10.0			0
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Import/Export)	0	0	0			0
Proposed (Export)	1	0.680	0			0

Source: Staff Database

Natural Gas Activities through June 30, 2017 January through June 30, 2016

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	12			5,434.3	200.3	222,939
through June 30, 2016	15			2,670.3	138.8	89,695
Certificated	18			9,627.9	1,257.0	623,318
through June 30, 2016	33			13,001.9	977.7	976,659
Storage						
Placed in Service	1	7.5	600.0			9,500
through June 30, 2016	0	0	0			0
Certificated	0	0	0			0
through June 30, 2016	0	0	0			0
LNG (Import & Export)						
Placed in Service	1	0	570			0
through June 30, 2016	1	0	700			0
Certificated (Import/Export)	0	0	0			0
through June 30, 2016	3	10.2	2,841			0

Source: Staff Database



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Hydropower Highlights (nonfederal)

There were no hydropower activities this month.

Hydropower Project Activities Year to Date (through June 30, 2017)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	1.500	0	0	0	0	1	1.500
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	3	1.770	0	0	0	0	3	1.770
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	7	155.900	0	0	0	0	7	155.900
10-MW Exemption	1	0.360	0	0	0	0	1	0.360
Capacity Amendment	2	4.220	0	0	0	0	2	4.220
Conduit Exemption	0	0	0	0	0	0	0	0
Placed in Service								
License	1	7.000	0	0	0	0	1	7.000
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

Source: Staff Database

Electric Generation Highlights

- Colorado Bend I Power LLC's 1,230 MW natural gas-fired Colorado Bend Energy Center in Wharton County, TX is online.
- Austin Energy's 192 MW natural gas-fired Sand Hill Project in Travis County, TX is online
- CP Bloom Wind LLC's 178 MW Bloom Wind Power Project in Ford County, KS is online.
- Navajo Tribal Utility Authority's 28 MW Kayenta Solar Project in Navajo County, AZ is online.
- Hecate Energy Clark County LLC's 20 MW Double Tollgate Solar Project in Clarke County, VA is online.
- Aurora Distributed Solar LLC's 10 MW Waseca Solar Project in Waseca County, MN is online.
- Aurora Distributed Solar LLC's 10 MW Paynesville Solar Project in Stearns County, MN is online.
- Aurora Distributed Solar LLC's 10 MW Albany Solar Project in Stearns County, MN is online. The power generated is sold to Northern States Power Co. (Minnesota) under long-term contract.
- Aurora Distributed Solar LLC's 9 MW West Waconia Solar Project in Carver County, MN is online.
- Aurora Distributed Solar LLC's 9 MW Lake Pulaski Solar Project in Wright County, MN is online.
- AEP Onsite Partners LLC's 7 MW Northwest Jacksonville Solar Partners Project in Duval County, FL is online.
- Lemond Solar Center LLC's 7 MW Lemond Solar Center Project in Steele County, MN is online. The power generated is sold to Southern Minnesota Municipal Power Agency under long-term contract.
- Aurora Distributed Solar LLC's 7 MW Dodge Center Solar Project in Dodge County, MN is online.
- Aurora Distributed Solar LLC's 6 MW Annandale Solar Project in Wright County, MN is online.
- Aurora Distributed Solar LLC's 6 MW West Faribault Solar Project in Rice County, MN is online.
- Aurora Distributed Solar LLC's 6 MW Eastwood Solar Project in Blue Earth County, MN is online.
- Aurora Distributed Solar LLC's 5 MW Lake Emily Solar Project in Le Sueur County, MN is online.
- Aurora Distributed Solar LLC's 5 MW Hastings Solar Project in Washington County, MN is online.



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- Albany Green Energy LLC's 58 MW Proctor & Gamble Biomass Project in Dougherty County, GA is online. The power generated is sold to Georgia Power Co. under long-term contract.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	June 2017		January – June 2017 Cumulative		January – June 2016 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0	3	45
Natural Gas	3	1,424	55	8,729	60	5,773
Nuclear	0	0	1	102	0	0
Oil	0	0	1	14	5	12
Water	0	0	5	13	27	298
Wind	1	178	34	3,639	26	2,202
Biomass	2	60	11	198	19	48
Geothermal Steam	0	0	0	0	0	0
Solar	28	169	176	2,050	203	2,132
Waste Heat	0	0	0	0	1	8
Other *	0	0	13	1	6	21
Total	34	1,831	296	14,746	350	10,539

Sources: Data derived from Velocity Suite, ABB Inc. and The C Three Group LLC which include plants with nameplate capacity of 1 MW or greater. The data may be subject to update.

Total Available Installed Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	284.72	23.93%
Natural Gas	517.80	43.52%
Nuclear	106.89	8.98%
Oil	44.32	3.72%
Water	100.72	8.47%
Wind	85.69	7.20%
Biomass	16.89	1.42%
Geothermal Steam	3.79	0.32%
Solar	27.21	2.29%
Waste Heat	1.04	0.09%
Other*	0.75	0.06%
Total	1,189.82	100.00%

Sources: Data derived from Velocity Suite, ABB Inc. and The C Three Group LLC which include plants with nameplate capacity of 1 MW or greater. The data may be subject to update.

* "Other" includes purchased steam, tires, and miscellaneous technology such as batteries, fuel cells, energy storage, and fly wheel.



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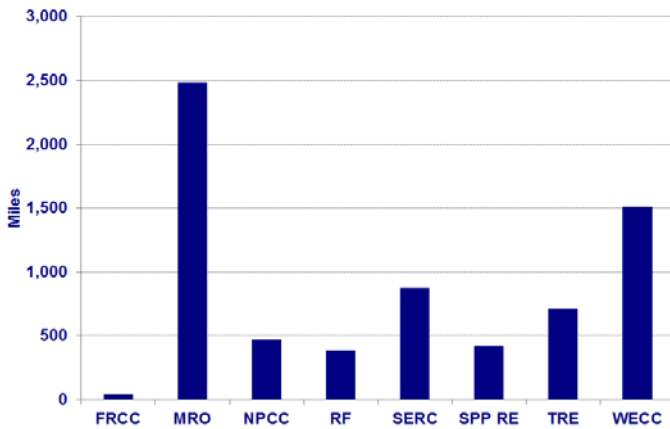
Electric Transmission Highlights

- Commonwealth Edison has completed the 57.0 mile, 345 kV Byron – Wayne Transmission Project in IL.

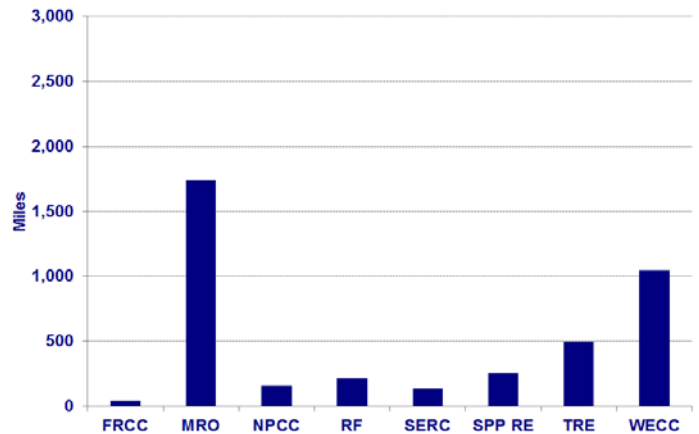
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by June 2019	
	June 2017	June 2016	January – June 2017 Cumulative	January – December 2016 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	95.5	86.4	513.2	1,787.9	3,044.2
345	57.0	113.0	57.0	508.9	2,028.6	3,220.6
500	0.0	43.0	0.0	85.0	287.9	634.9
Total U.S.	57.0	251.5	143.4	1,107.1	4,104.4	6,899.7

Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2017 The C Three Group, LLC.

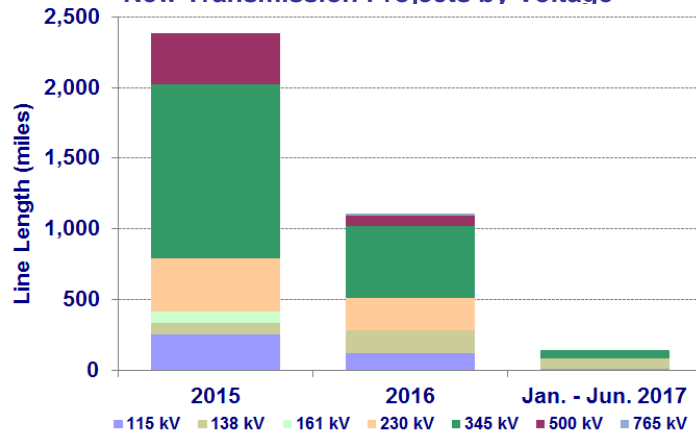
All Transmission Projects with a Proposed In-Service Date by June 2019



Transmission Projects with a High Probability of being completed by June 2019



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2017 The C Three Group, LLC.

Disclaimer: This Report contains analyses, presentations, and conclusions that may be based on or derived from the data sources cited, but do not necessarily reflect the positions or recommendations of the data providers.