



Office of Energy Projects Energy Infrastructure Update For January 2018

Natural Gas Highlights

- Florida Gas received authorization for its Wekiva Parkway Relocation project, which involves abandoning and replacing approximately 7.7 miles of pipeline in Lake and Seminole Counties, FL.
- Gulf South Pipeline received authorization to abandon by sale to Shongaloo Midstream, LLC, gathering and transmission pipelines, meter and regulator stations, and other facilities and appurtenances located in Claiborne and Webster Parishes, LA. These facilities have been inactive since summer 2011.
- Transco received authorization to construct and operate its St. James Supply Project, which would provide 162 MMcf/d of firm transportation capacity from Transco's Station 65 Zone 3 Pool in St. Helena Parish, LA to a new interconnection with the proposed Yuhuang Chemical Plant in St. James Parish, LA.
- Southern Star Central Gas received authorization to construct its 4.7 mile Blue Mountain Chisholm Trail Project, which would transport 150 MMcf/d of natural gas from the Blue Mountain Midstream gas processing plant to an interconnect with NGPL. The project is located in Carter and Grady Counties, OK.
- PennEast received authorization to construct and operate its PennEast Pipeline Project which would provide 1,107 MMcf/d of capacity on a new pipeline system extending from Luzerne County, PA to Mercer County, NJ.
- Dominion Cove Point LNG received authorization to construct and operate its Eastern Market Access Project, which would provide 294 MMcf/d of capacity to serve markets in the Mid-Atlantic region, including a proposed 990 MW power generating station in Prince George's County, MD.
- Alberta LTD received authorization to transfer to Spartan US its NGA Section 3 authorization and Presidential Permit for the existing border crossing near the Village of Monchy, Saskatchewan, Canada.
- Bakken Hunter received authorization to transfer its NGA section 3 Authorization and Presidential Permit to Steppe Petroleum, including the permit to construct, operate, and maintain facilities in North Dakota for the import of natural gas from Canada.
- Algonquin received authorization to abandon in place compressor units Nos. 1 and 2, and remove related appurtenances at its Burrillville Compressor Station in Providence County, RI. This project will not affect the operational capacity of the facilities.
- Kinder Morgan Border Pipeline received authorization to increase the design capacity of its facilities crossing the border between Texas and Mexico from 300 to 450 MMcf/d.
- Transco received authorization to retroactively abandon certain gas supply metering and regulating facilities and pipeline laterals located in LA, MS, TX, NJ and Offshore Louisiana.
- National Fuel received authorization to use Beech Hill Well 7451 on an interim basis to assess the reservoir connection between the Beech Hill Storage Field and the Shongo Pool in Allegany County, NY.
- Adelphia requests authorization to construct its Adelphia Gateway Project, including 4.75 miles of new pipeline, two new compressor stations and related appurtenances, as well as utilization of existing pipelines to increase natural gas deliveries into the Philadelphia area by 250 MMcf/d.
- Transwestern requests authorization to modify the existing units at its WT-1 Compressor Station in Lea County, NM, which would increase capacity on its West Texas Lateral between the WT-1 Station and Compression Station 9 by 130 MMcf/d.
- Columbia Gas of Pennsylvania requests a service area determination within which it may, without further Commission authorization, enlarge or expand its facilities in order to transport gas from a delivery point in Columbiana County, OH to consumers in Pennsylvania.
- Texas Eastern requests authorization to relocate segments of its Lines 1-B and 1-F in Montgomery County, PA in order to accommodate a highway expansion project.
- Gulf South requests authorization to abandon by sale to Tristate NLA, gathering and transmission pipeline facilities in Texas and Louisiana.
- CIG requests permission to abandon by sale to EPNG three interconnected pipeline segments that total approximately 40 miles, as well as certain metering and appurtenant facilities located at the interconnection of the CIG and EPNG pipeline systems in Moore and Potter Counties, TX.
- Columbia Gas requests authorization to construct and operate horizontal storage wells 12601 and 12602 and related pipelines and appurtenances at its Pavonia Storage Field. The new wells would be located in Ashland County, OH, and increase deliverability by 18 MMcf/d.



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Natural Gas Activities in January 2018

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	0			0	0	0
Certificated	7			1,868	132	83,215
Proposed	2			380	5	11,250
Storage						
Placed in Service	0	0.0	0.0			0
Certificated	0	0.0	0.0			0
Proposed	1	0.0	18.0			0
LNG (Import & Export)						
Placed in Service (Export)	0	0	0			0
Certificated (Import/Export)	0	0	0			0
Proposed (Import/Export)	0	0	0			0

Source: Staff Database

Natural Gas Activities through January 31, 2018 January through January 31, 2017

Status	No. of Projects	Storage Capacity (BCF)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through January 31, 2017	0 2			0.0 0	0.0 0	0 0
Certificated through January 31, 2017	7 5			1,867.5 2,466	132.2 173	83,215 238,000
Storage						
Placed in Service through January 31, 2017	0 0	0.0 0	0.0 0			0 0
Certificated through January 31, 2017	0 0	0.0 0	0.0 0			0 0
LNG (Import & Export)						
Placed in Service (Export) through January 31, 2017	0 0	0.0 0	0.0 0			0 0
Certificated (Import/Export) through January 31, 2017	0 0	0.0 0	0.0 0			0 0

Source: Staff Database



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Hydropower Highlights (nonfederal)

There were no hydropower activities this month.

Hydropower Project Activities in January 2018

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	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	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
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 January 31, 2018)

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	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	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
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



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Electric Generation Highlights

- Red Dirt Wind Project LLC's 300 MW Red Dirt Wind Project in Kingfisher County, OK is online. The power generated is sold to Grand River Dam Authority and T Mobile US Inc. under long-term contract.
- Magic Valley Wind Farm II's 229 MW Magic Valley Wind Project in Willacy County, TX is online.
- Red Pine Wind Project LLC's 200 MW Red Pine Wind Project LLC in Lincoln County, MN is online.
- Copenhagen Infrastructure II's 197 MW wind powered Bearkat Renewable Energy Project in Glasscock County, TX is online.
- Tule Wind LLC's 131 MW Tule Wind Project in San Diego County, CA is online. The power generated is sold to Southern California Edison Co. under long-term contract.
- Twin Buttes Wind II LLC's 76 MW Twin Buttes II Project in Prowers County, CO is online.
- Hog Creek Wind Farm LLC's 50 MW Hog Creek Wind Farm in Hardin County, OH is online. The power generated is sold to Southern Maryland Electric Coop. Inc. under long-term contract.
- Consumers Energy Co.'s 44 MW Cross Winds Energy Park in Tuscola County, MI is online. The power generated is sold to Consumers Energy Co. under long-term contract.
- Florida Power & Light Co.'s 75 MW Coral Farms Solar Project in Putnam County, FL is online.
- Florida Power & Light Co.'s 75 MW Horizon Solar Energy Center in Alachua County, FL is online.
- Florida Power & Light Co.'s 75 MW Indian River Solar Project in Indian River County, FL is online.
- Florida Power & Light Co.'s 75 MW Wildflower Solar Project in Desoto County, FL is online.
- Coronal Development Services LLC's 26 MW Essex Solar Center LLC in Essex County, VA is online. The power generated is sold to Virginia Electric & Power Co. under long-term contract.
- Cianbro Corp's 10 MW Pittsfield Solar Project in Somerset County, ME is online.
- Scenic Hill Solar III LLC's 7 MW Clarksville Light & Water Solar Power Plant in Johnson County, AR is online. The power generated is sold to Clarksville Light & Water Co. under long-term contract.
- 1406RB PV LLC's 5 MW Solean Solar Project in Cattaraugus County, NY is online. The power generated is sold to Niagara Mohawk Power Corp. under long-term contract.
- Stenner Creek Solar LLC's 5 MW Stenner Creek Solar Project in San Luis Obispo County, CA is online.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	January 2018		January 2017	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0
Natural Gas	0	0	19	1,454
Nuclear	0	0	1	102
Oil	0	0	1	1
Water	0	0	0	0
Wind	12	1,230	5	909
Biomass	0	0	1	1
Geothermal Steam	0	0	0	0
Solar	11	356	45	623
Waste Heat	0	0	0	0
Other *	2	0	6	1
Total	25	1,586	78	3,091

Sources: Data derived from Velocity Suite, ABB Inc. and The C Three Group LLC. The data may be subject to update.



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Total Available Installed Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	275.73	23.21%
Natural Gas	516.28	43.47%
Nuclear	108.18	9.11%
Oil	43.29	3.64%
Water	100.88	8.49%
Wind	89.85	7.57%
Biomass	16.68	1.40%
Geothermal Steam	3.83	0.32%
Solar	30.99	2.61%
Waste Heat	1.26	0.11%
Other*	0.79	0.07%
Total	1,187.75	100.00%

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

Proposed Generation Additions and Retirements by February 2021

Primary Fuel Type	Additions		Retirements	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	4	1,927	66	15,963
Natural Gas	383	95,886	123	13,167
Nuclear	6	6,363	5	4,609
Oil	31	736	33	311
Water	266	12,953	18	583
Wind	470	83,434	2	68
Biomass	63	895	21	69
Geothermal Steam	28	1,173	0	0
Solar	1,837	47,948	5	2
Waste Heat	8	176	0	0
Other *	52	680	1	0
Total	3,148	252,171	274	34,772

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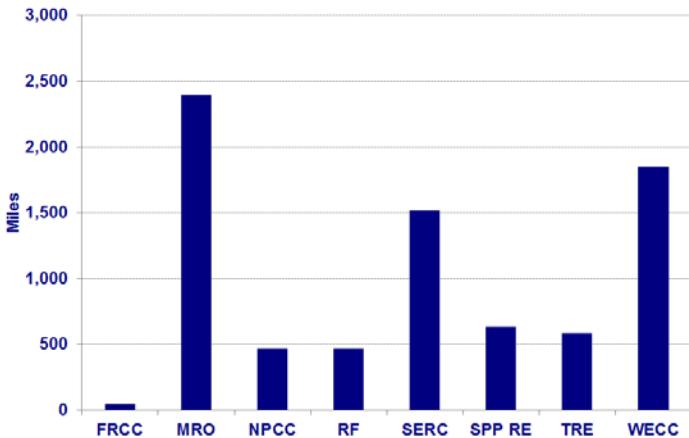
Electric Transmission Highlights

- ITC Holdings Corp. has completed the 6.0 mile, 120 kV Arctic – Crestwood Transmission Project in MI.
- Southwestern Public Service has completed the 24.0 mile, 115 kV Roswell – Captain Transmission Project in NM.

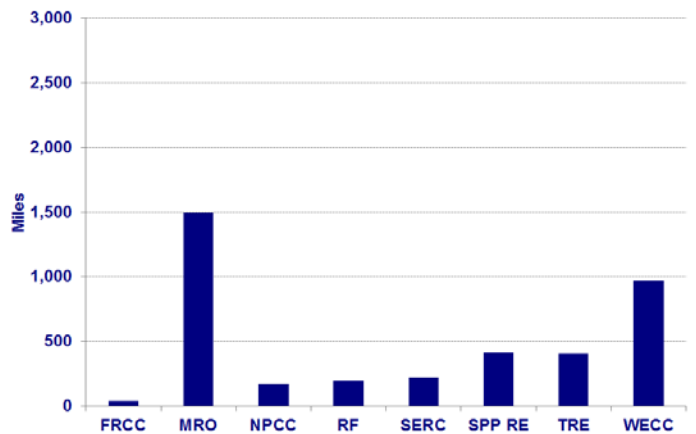
Voltage (kV)	Transmission Projects Completed			Proposed Transmission Projects In-Service by January 2020	
	January 2018	January 2017	January – December 2017 Cumulative	High Probability of Completion	All
	Line Length (miles)				
≤230	30.0	18.0	301.9	1,375.1	3,072.3
345	0.0	0.0	218.5	2,212.2	3,804.2
≥500	0.0	0.0	0.0	393.4	1,074.4
Total U.S.	30.0	18.0	520.4	3,980.7	7,950.9

Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2018 The C Three Group, LLC.

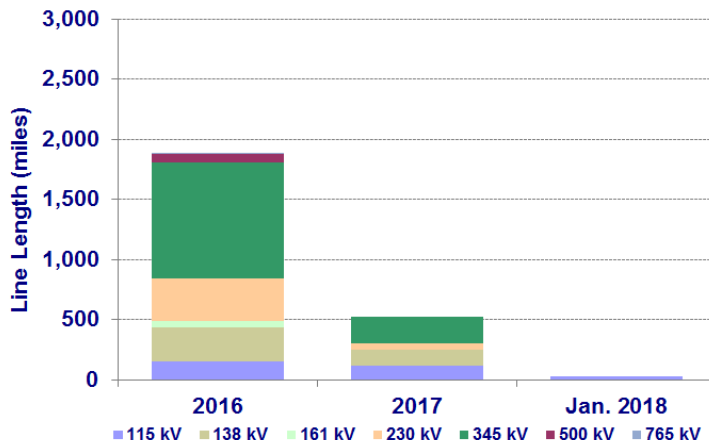
All Transmission Projects with a Proposed In-Service Date by January 2020



Transmission Projects with a High Probability of being completed by January 2020



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2018 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.