



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

Natural Gas Highlights

- Northern received authorization to place into service the Gaines County Crossover Compressor Station Project in Gaines County, TX.
- Texas Eastern received approval to abandon in place two compressor units and remove related appurtenances at its Longview Compressor Station in Gregg County, TX.
- Transco received authorization to implement its Central Penn Line North Alternative 13, amending the originally certificated route for the Atlantic Sunrise Project in Luzerne and Wyoming Counties, PA.
- Transco received authorization to place into service approximately .30 mile of replacement pipeline for the Lower New York Bay Lateral, as part of the New York Bay Expansion Project in Middlesex County, NJ.
- Gulf South received authorization to amend its Coastal Bend Header Project, and install a gas-fired Solar Titan 130 turbine compressor unit in place of the currently certificated gas-fired Solar Mars 100 turbine at the Magasco Compressor Station, in Sabine County, TX.
- Dominion requests authorization to modify the certificated horsepower rating of a new unit at its Burch Ridge Compressor Station in Marshall County, West Virginia, increasing it from 6,130 HP to 6,276 HP.
- DTE Mainstream requests authorization to construct 13.19 miles of pipeline in Berks County, PA, from an interconnection with Texas Eastern to the new Birdsboro gas-fired generation facility.
- Algonquin requests authorization to replace 1,300 feet of 24-inch pipeline underneath the channel of the Mystic River and Alewife Brook in Somerville, Medford, and Arlington, MA.
- Texas Gas requests authorization to abandon or remove 6.8 miles of the Calliu Bay-Dog Lake and 11.8 miles of the Deep Saline-Peltex pipelines in Terrebonne Parish, LA.
- Northwest requests authorization to remove a section of its previously abandoned 8 inch North Seattle Lateral pipeline and replace it with new 20 inch line, and rebuild the existing North Seattle/Everett meter station in Snohomish County, WA.
- Transco requests authorization to abandon offshore gathering laterals extending from Brazos Block A-133A to Brazos Block 538, in offshore TX.
- Midship requests authorization to construct 233 miles of pipeline and three compressor stations to transport gas from the Stack and Scoop plays in Oklahoma to interconnects with Midcontinent Express, Gulf Crossing, and NGPL pipelines in Southeastern OK.
- Caledonia Energy requests authorization to abandon Gas Storage Wells No. 7 and No. 9, located at its storage facility in Lowndes and Monroe Counties, MS.
- Equitrans requests authorization to plug and abandon the Logansport 6188 and 8271 wells in Marion County, WV.
- CIG requests authorization to reclassify to observation status seven injection/withdrawal wells at the Latigo storage field and six wells at the Flank storage fields in Arapahoe and Baca Counties, CO.
- Equitrans requests authorization to plug and abandon an injection/withdrawal well at its Hunters Cave Storage Field in Greene County, PA.
- Equitrans requests authorization to abandon in part injection and withdrawal Well 8215 and Well 8217 in its Rhodes Complex and Skin Creek Storage field in Lewis County, WV.
- National Fuels requests authorization to plug and abandon well WH23 and associated 931 pipeline at its Wharton Storage Field in Potter County, PA.



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Natural Gas Activities in May 2017

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	1			210.0	0.3	18,089
Certificated	2			0.0	1.6	4,734
Proposed	4			1,715.3	253.1	118,546
Storage						
Placed in Service	0	0.0	0.0			0
Certificated	0	0.0	0.0			0
Proposed	0	0.0	0.0			0
LNG (Import & Export)						
Placed in Service (Export)	0	0.0	0.0			0
Certificated (Import/Export)	0	0.0	0.0			0
Proposed (Import/Export)	0	0.0	0.0			0

Source: Staff Database

Natural Gas Activities through May 31, 2017 January through May 31, 2016

Status	No. of Projects	Storage Capacity (BCF)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	8			4,779.3	65.6	217,939
through May 31, 2016	12			2,598.6	92.1	88,315
Certificated	14			9,627.9	1,254.8	623,318
through May 31, 2016	26			10,197.9	864.2	687,125
Storage						
Placed in Service	0	0.0	0.0			0
through May 31, 2016	0	0.0	0.0			0
Certificated	0	0.0	0.0			0
through May 31, 2016	0	0.0	0.0			0
LNG (Import & Export)						
Placed in Service (Export)	1	0.0	700.0			0
through May 31, 2016	1	0.0	700.0			0
Certificated (Import/Export)	0	0.0	0.0			0
through May 31, 2016	2	10.2	2,491.0			0

Source: Staff Database



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Hydropower Highlights (nonfederal)

- Friant Power Authority's 7.000 MW Friant Hydro Project in Fresno County, CA is online.
- FFP Missouri 5, LLC was issued an original license for the 24.000 MW Emsworth Locks and Dam Hydroelectric Project No. 13757. The project will be located at the U.S. Army Corps of Engineers' Emsworth Locks and Dam on the Ohio River in Allegheny County, PA.
- FFP Missouri 6, LLC was issued an original license for the 12.000 MW Emsworth Back Channel Dam Hydroelectric Project No. 13761. The project will be located at the U.S. Army Corps of Engineers' Emsworth Back Channel Dam on the Ohio River in Allegheny County, PA.
- Solia 6 Hydroelectric, LLC was issued an original license for the 42.000 MW Montgomery Locks and Dam Hydroelectric Project No. 13768. The project will be located at the U.S. Army Corps of Engineers' Montgomery Locks and Dam on the Ohio River in Beaver County, PA.
- Brookfield White Pine Hydro, LLC filed an application to raise the capacity of its Gulf Island-Deer Rips Project No. 2282 from 37.232 MW to 38.132 MW. The project is located on the Androscoggin River in Androscoggin County, ME.

Hydropower Project Activities in May 2017

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	1	0.900	0	0	0	0	1	0.900
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	3	78.000	0	0	0	0	3	78.000
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
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



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Hydropower Project Activities Year to Date (through May 31, 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	155.90	0	0	0	0	7	155.90
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

- Wolf Hollow I Power LLC's 1,231 MW natural gas-fired Wolf Hollow Project in Hood County, TX is online. The power generated is sold to Exelon Energy Co. under long-term contract.
- Green Energy Partners/Stonewall LLC's 802 MW natural gas-fired Stone Wall Energy Park Project in Loudoun County, VA is online.
- Grand River Dam Authority's 600 MW natural gas-fired Grand River Energy Center Project in Mayes County, OK is online.
- NRG Texas LLC's 427 MW natural gas-fired Cielo Lindo Peaker Facility Project in Galveston County, TX is online.
- Florida Power & Light Co.'s 100 MW natural gas-fired Lauderdale Project in Broward County, FL is online.
- Basin Electric Power Coop's 90 MW natural gas-fired Lonesome Creek Station in McKenzie County, ND is online.
- Sinovel Wind Group Co. Ltd's 163 MW wind powered Falvez Astra W Project in Randall County, TX is online.
- Building Energy Wind Iowa LLC's 30 MW Building Energy Wind Farm Project in Polk County, IA is online.
- BNB Lamesa Solar LLC's 102 MW Lamesa Solar Facility Project in Dawson County, TX is online. The power generated is sold to City of Garland under long-term contract.
- Innovative Solar 37 LLC's 80 MW Innovative Solar 37 Project in Anson County, NC is online. The power generated is sold to Duke Energy Progress under long-term contract.
- Imperial Irrigation District's 30 MW Midway Solar Farm Project in Imperial County, CA is online. The power generated is sold to Pacific Gas and Electric Co. and Imperial Irrigation District under long-term contracts.
- Altus Power America Inc.'s 10 MW solar powered Spartan Project in Burlington County, NJ is online. The power generated is sold to Jersey Central Power & Light Co. under long-term contract.
- Dodge Holdco LLC's 5 MW solar powered Dodge Holdco Project in Dodge County, MN. The power generated is sold to Xcel Energy Inc. under long-term contract.
- Forest Lake Holdco LLC's 5 MW solar powered Forest Lake Holdco Project in Washington County, MN. The power generated is sold to Xcel Energy Inc. under long-term contract.



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- Hwy 14 Holdco LLC's 5 MW solar powered Highway 14 Holdco Project in Olmsted County, MN. The power generated is sold to Xcel Energy Inc. under long-term contract.
- Greenway Renewable Power LLC's 50 MW biomass fueled Greenway Renewable Power Project in Heard County, GA is online. The power generated is sold to Georgia Power Co. under long-term contract.
- Bio Energy (Ohio III) LLC's 5 MW Brown County LFG Project in Brown County, OH is online.
- DuPont Fabros Technology's 14 MW oil-fired Ashburn Corporate Center Project in Loudoun County, VA is online.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	May 2017		January – May 2017 Cumulative		January – May 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	16	4,030	52	8,085	52	3,730
Nuclear	0	0	1	102	0	0
Oil	1	14	1	14	2	7
Water	3	8	5	13	26	269
Wind	2	193	33	3,461	23	1,782
Biomass	6	59	15	146	19	48
Geothermal Steam	0	0	0	0	0	0
Solar	17	256	148	1,882	166	1,837
Waste Heat	0	0	1	220	0	0
Other *	2	0	13	1	6	29
Total	47	4,560	269	13,924	297	7,747

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	23.97%
Natural Gas	515.28	43.38%
Nuclear	108.16	9.11%
Oil	43.84	3.69%
Water	100.72	8.48%
Wind	85.51	7.20%
Biomass	16.80	1.41%
Geothermal Steam	3.79	0.32%
Solar	27.05	2.28%
Waste Heat	1.26	0.10%
Other*	0.75	0.06%
Total	1,187.88	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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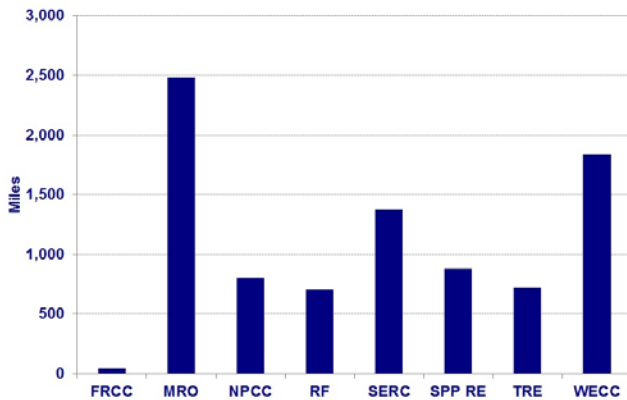
Electric Transmission Highlights

- American Electric Power has completed the 5.8 mile, 138 kV Chesterfield Avenue - Cabin Creek Transmission Project in WV.

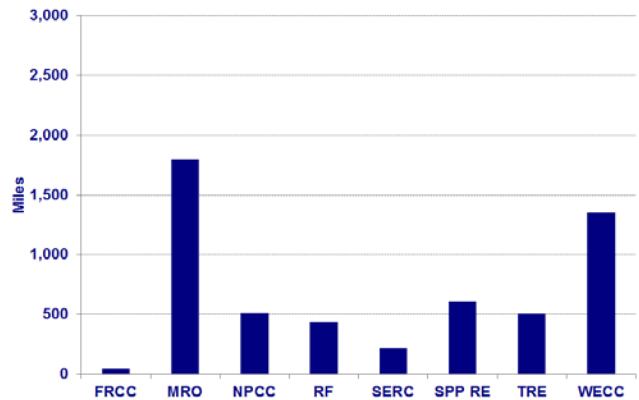
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by May 2019	
	May 2017	May 2016	January – May 2017 Cumulative	January – December 2016 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	5.8	53.6	43.9	479.2	2,338.9	3,932.0
345	0.0	59.2	0.0	508.9	2,788.4	4,096.7
500	0.0	28.0	0.0	85.0	342.9	819.9
Total U.S.	5.8	140.8	43.9	1,073.1	5,470.2	8,848.6

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

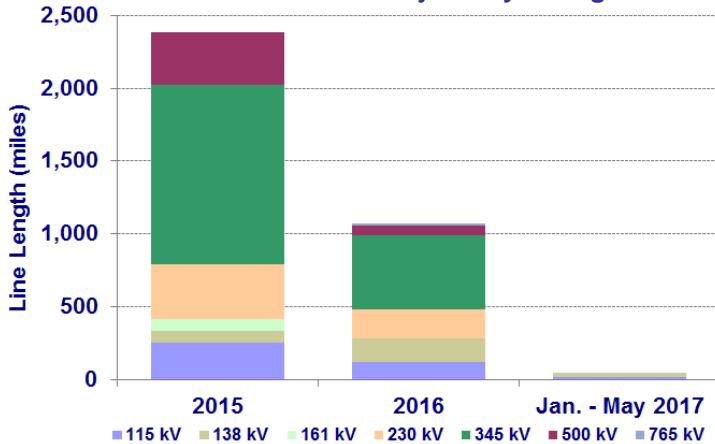
All Transmission Projects with a Proposed In-Service Date by May 2019



Transmission Projects with a High Probability of being completed by May 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.