



Office of Energy Projects Energy Infrastructure Update For June 2019

Natural Gas Highlights

- Columbia Gas received authorization to place in service portions of its KA1 North Launcher/Receiver Project in Madison and Fayette Counties, KY. The project includes installing bi-directional launchers, receivers, and mainline valves.
- Tennessee Gas received authorization to abandon inactive supply lateral Line No. 520A-100 and associated meter, platforms, and appurtenances in Terrebonne Parish, LA.
- Columbia Gas received authorization for its VNG Suffolk No. 3 Meter Station Expansion Project in Suffolk County, VA, which includes replacing the meter station to increase the station's maximum delivery capacity from 3.7 to 12 MMcf/d.
- Enable Gas requests authorization to decrease the maximum allowable operating pressure of its Line JM-22 in Monroe County, AR, from 686 to 400 psig. This change will have no adverse effects on its customer.
- Dominion withdrew its application for the Sweden Valley Project.
- Enable Gas received authorization to install a new delivery meter in Sequoia County, OK, in order to provide direct service to a customer.
- PNGTS received authorization to increase the certificated capacity on its system from Pittsburg, New Hampshire, to Westbrook, Maine, by 42.5 Mcf/d, and to amend its import/export Presidential Permit accordingly.
- Young Gas received authorization to increase the total certificated gas storage capacity from 9.95 Bcf to 10.95 Bcf at its storage field in Morgan County, CO. The proposed increase does not require changes to its infrastructure and would result in enhanced withdrawal capabilities.
- Columbia Gas received authorization for its Dundee Wells 122 and 166 Abandonment Project, which involves abandoning two storage wells and associated pipelines and appurtenances at its Dundee Storage Field in Steuben and Schuyler counties, NY. The project will not affect the field's operations.
- Gulfstream requests authorization for its Phase VI Expansion Project, including a 16,000 HP compressor and 4 miles of replacement pipe in Mobile County, AL, and new metering equipment in Manatee County, FL, in order to supply up to 78 MMcf/d of firm transportation capacity to Tampa Electric.
- America Midstream (AlaTenn) requests authorization for its Greene Interconnect Project, which includes abandoning in place four compressors at its Decatur Compression Station in Limestone County, AL and replacing them with two new compressors. The project would increase compression by 2,095 HP and downstream capacity by 10 MMcf/d.
- Mountain Valley requests authorization for its Greene Interconnect Project, including a new metering and regulating station, 370 feet of new pipe, and an above-ground tap in Monroe County, WV, to interconnect and deliver up to 1 Bcf/d of natural gas into Columbia's KA system.
- Stingray Pipeline requests authorization to abandon three compressor units at its Station 701 in Cameron Parish, LA and one unit at its Station 702 in the Gulf of Mexico. These are older units that have not operated in over a year.
- Northern Natural requests authorization to abandon in-place the A-line and J-line in Clay, Cloud, Ellsworth, Lincoln, Ottawa, and Rice counties, KS, and to construct an 11,152 HP compressor and related facilities at its Tescott Compressor Station in Ottawa County, KS.
- Transco requests authorization to abandon 20.3 miles of a lateral line extending from Ship Shoal Block 169 to Ship Shoal Block 72 and appurtenant metering facilities in Federal waters, offshore LA. These laterals have not been used in the past 12 months.
- Sabal Trail requests authorization for its Citrus County Meter Station Project, which includes a new metering and regulating facility for the receipt of natural gas from the FGT system to a point on Sabal Trail's Citrus County Line in Citrus County, FL. The project would provide Duke Energy Florida with additional operational flexibility and reliability.
- Texas Gas requests authorization to plug and abandon Injection/Withdrawal Well No. 5710 and its related lateral line, side valve, and associated above-ground equipment at its Leesville Storage Field in Lawrence County, IN. The abandonment would have no effect on the certificated physical parameters of the field.
- Kinder Morgan Louisiana requests authorization for its Acadiana Project, which includes installing 95,700 HP of new compression at Compressor Station 760 in Acadia Parish, LA, in order to increase transportation capacity by 894 MMcf/d from existing interconnects to a delivery point with Sabine Pass Liquefaction in Cameron Parish, LA.



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Natural Gas Activities in June 2019

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	0			0	0	0
Proposed	5			1,011	4	124,947
Storage						
Placed in Service	0	0	0			0
Certificated	1	1	0			0
Proposed	0	0	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 June 30, 2019

January through June 30, 2018

Status	No. of Projects	Storage Capacity (BCF)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	5			4,101.0	1.4	282,400
through June 30, 2018	4			3230.0	79.3	116,020
Certificated	14			9,988.4	393.6	584,535
through June 30, 2018	25			5060.7	286.1	149,395
Storage						
Placed in Service	0	0.0	0.0			0
through June 30, 2018	0	0.0	0.0			0
Certificated	2	1.0	79.0			0
through June 30, 2018	4	3600.3	152.0			0
LNG (Import & Export)						
Placed in Service (Export)	2	10.1	1,413.0			0
through June 30, 2018	1	0.0	825.0			0
Certificated (Import/Export)	4	34.3	7,279.0			0
through June 30, 2018	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 Year to Date (through June 30, 2019)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	0.850	0	0	1	20.000	2	20.850
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	2	3.900	0	0	0	0	2	3.900
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	0	0	1	393.300	1	0.070	2	393.370
10-MW Exemption	1	0.140	0	0	0	0	1	0.140
Capacity Amendment	1	3.640	0	0	0	0	1	3.640
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

Electric Generation Highlights

- Entergy Services LLC's 980.0 MW natural gas-fired Little Gypsy Plant in Saint Charles Parish, LA is online.
- PSEG Power Connecticut LLC's 576.3 MW natural gas-fired Bridgeport Station in Fairfield County, CT is online.
- Canal 3 Generating LLC's 330.0 MW expansion of the natural gas-fired Canal Plant in Barnstable County, MA is online.
- Southeastern Colorado Water Conservancy District's 7.5 MW Pueblo Dam Hydro Project in Pueblo County, TX is online.
- Patriot Wind Farm LLC's 226.0 MW Patriot Wind Farm Expansion in Nueces County TX is online.
- Seymour Hills Wind Project LLC's 30.2 MW Seymour Hills Wind Farm in Baylor County, TX is online. The power generated is sold to Akamai Technologies under long-term contract.
- North Rosamond Solar LLC's 153 MW Rosamond Solar Project in Kern County, CA is online. The power generated is sold to Southern California Edison Co. under long-term contract.
- MD Solar 2 LLC's 27.5 MW Ripley Solar Project in Charles County, MD is online. The power generated is sold to Southern Maryland Electric Coop Inc. under long-term contract.
- KDC Solar PR1 LLC's 22.0 MW Six Flags Great Adventure Solar Project in Ocean County, NJ is online.



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New Generation In-Service (New Build and Expansion)

Primary Fuel Type	June 2019		January – June 2019 Cumulative		January – June 2018 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	2	45	2	45	4	10
Natural Gas	18	2,327	66	7,277	53	8,743
Nuclear	0	0	1	155	3	30
Oil	4	20	14	74	17	34
Water	3	65	12	104	8	104
Wind	2	256	22	2,001	23	1,981
Biomass	0	0	2	18	12	101
Geothermal Steam	0	0	0	0	3	36
Solar	40	363	205	2,048	311	2,688
Waste Heat	0	0	0	0	1	50
Other *	2	0	18	0	18	2
Total	71	3,076	342	11,722	453	13,779

Total Available Installed Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	256.51	21.39%
Natural Gas	534.33	44.56%
Nuclear	107.31	8.95%
Oil	39.86	3.32%
Water	100.76	8.40%
Wind	99.09	8.26%
Biomass	16.00	1.33%
Geothermal Steam	3.84	0.32%
Solar	39.34	3.28%
Waste Heat	1.32	0.11%
Other*	0.77	0.06%
Total	1,199.13	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.



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Generation Capacity Additions and Retirements (July 2019 – June 2022) From ABB Velocity Suite's Generating Unit Capacity Dataset

Primary Fuel Type	All Proposed Additions		Proposed Additions Under Construction**		Proposed Retirements	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	2	94	1	17	51	16,277
Natural Gas	234	62,008	107	31,718	106	10,039
Nuclear	9	7,781	1	1,100	9	9,209
Oil	17	717	6	25	21	1,065
Water	220	14,595	84	1,900	19	526
Wind	546	99,962	169	27,098	2	320
Biomass	60	570	28	472	42	137
Geothermal Steam	18	860	6	280	0	0
Solar	2,580	87,404	567	17,111	1	1
Waste Heat	3	34	2	29	0	0
Other *	140	475	34	15	1	2
Total	3,829	274,500	1,005	79,765	252	37,576

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.

** Under Constructions includes units that have started site preparation or construction. It also includes units that are in the testing phase.

Electric Transmission Highlights

- ITC Midwest has completed the 61.0 mile, 345 kV Ledyard – Colby Transmission Project in IA.
- Southwestern Public Service has completed the 64.0 mile 345 kV Yoakum – State Line – Hobbs Transmission Project in TX.

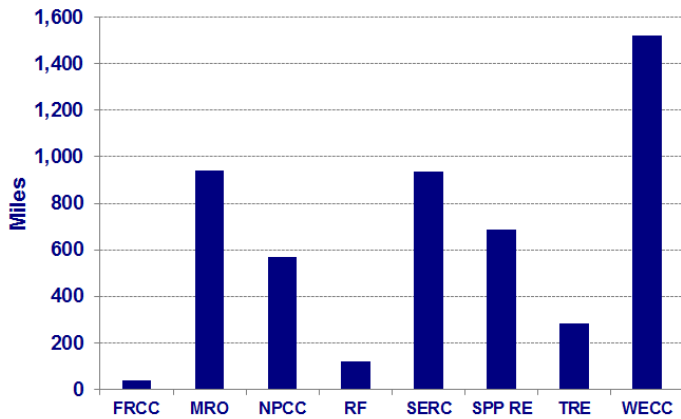
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by July 2021	
	June 2019	June 2018	January – June 2019 Cumulative	January – December 2018 Cumulative	Planned and Under Construction	All
	Line Length (miles)					
≤230	4.7	104.7	113.7	392.3	487.8	1,255.3
345	125.0	150.2	290.0	819.3	660.6	2,037.3
500	0.0	69.4	7.4	69.4	610.0	1,799.0
Total U.S.	129.7	324.3	411.1	1,281.0	1,758.4	5,091.6

Sources: Data derived from North American Electric Reliability Corporation (NERC) Electricity Supply and Demand (ES&D) and U.S. Electric Transmission Projects ©The C Three Group, LLC.

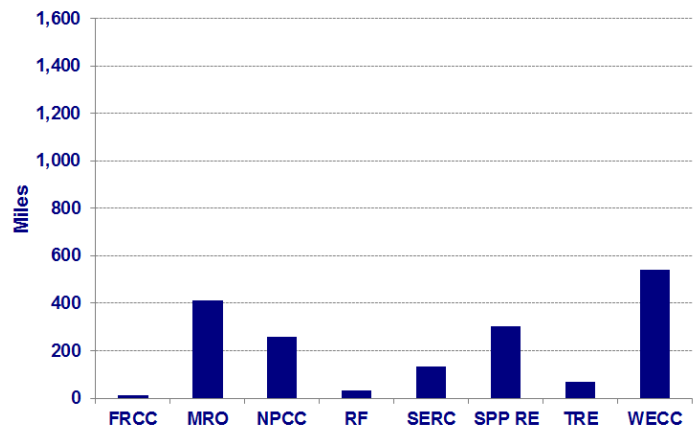


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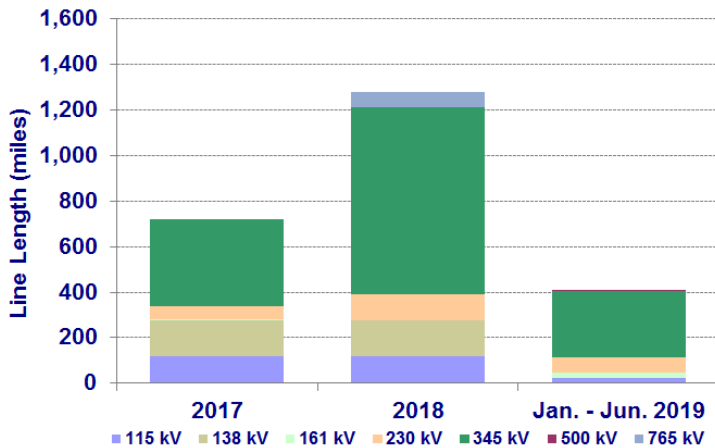
All Transmission Projects with a Proposed In-Service Date by July 2021



Transmission Projects with a High Probability of being completed by July 2021



New Transmission Projects by Voltage



Sources: Data derived from North American Electric Reliability Corporation (NERC) Electricity Supply and Demand (ES&D) and U.S. Electric Transmission Projects ©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.