

For July 2019

#### **Natural Gas Highlights**

- Cameron LNG received authorization to place in service the 0.71 MMcf/d Train 1 at its liquefaction project in Hackberry, LA.
- PNGTS received authorization to increase the certificated capacity on its system from Pittsburg, New Hampshire, to Westbrook, Maine, by 42,482 Mcf/d.
- National Fuel received authorization for its Brockway Modernization Project, which includes replacing 9.6 miles of pipeline with 10.1 miles of new pipeline in Jefferson and Elk Counties, PA.
- Equitrans received authorization to abandon in place 3.82 miles of its TP-4555 pipeline, part of its Allegheny Valley Connector System, and replace it with 9.92 miles of new pipeline. This project is in Westmoreland County, PA.
- Centerpoint Energy received a determination for a service area within which it may, without further Commission
  authorization, enlarge or expand its natural gas distribution facilities. These facilities consist of small diameter
  pipelines used to make deliveries to customers in various counties in Arkansas, Texas, and Louisiana.
- Texas Eastern received authorization to abandon, in place and by removal, its Cameron System, located onshore Louisiana and Offshore in State and Federal waters.
- Gulf South received authorization for its Willis Lateral Project, which consists of 19 miles of pipeline and 15,876 HP of new compression in Montgomery and San Jacinto Counties, TX, to supply 200 MMcf/d of natural gas to a proposed new power plant.
- Tennessee Gas received authorization for its Compressor Station 321 Turbine Replacement Project in Susquehanna County, PA, which involves replacing one turbine engine with a lower emissions model that will add 800 HP of compression and increase transportation capacity by 10 MMcf/d.
- Gulf South received authorization to construct two 5,000 horsepower compressors within its existing Petal III
  Compressor Station, a dehydration unit, a thermal oxidizer, and other appurtenant facilities in order to increase
  operational flexibility at its Petal Gas Storage Facility in Forrest County, MS.
- Gulf LNG received authorization to construct and operate an LNG export terminal in Jackson County, MS. The proposed export terminal would provide 1.5 Bcfd of export capacity.
- Columbia Gulf requests authorization for its Louisiana XPress Project, which consists of three new compressor stations and modifications to an existing compressor station. The project would create 493 MMcf/d of new incremental capacity on a north-south path from Columbia Gulf's Mainline Pool to a delivery point with Kinder Morgan Louisiana Pipeline in Evangeline County, LA.
- El Paso requests authorization for its Waha Compressor Station Upgrade, which includes installing a new Electric Motor Drive at the existing Waha Compressor Station in Reeves County, TX. The project will provide 10,000 HP of additional compression.
- National Fuel requests authorization for its FM100 Project, which includes installing 30.9 miles of pipeline, a 37,385
  HP compressor station, and a new overpressure protection station, as well as abandoning 44.9 miles of older pipeline
  and a compressor station. The project would take place in Potter, McKean, and Elk Counties, PA, and provide up to
  330 MMcf/d of firm capacity to transport gas to Transco at Leidy.
- Equitrans requests authorization to abandon by sale to Peoples Natural Gas, 4,287 feet of its TP-7575 pipeline in Allegheny County, PA.
- Transco requests authorization for its Leidy South Project, including 12.2 miles of new pipeline and 125,672 HP of new compression in order to provide 582 MMcf/d of incremental transportation capacity along two paths in Transco Zone 6 in Pennsylvania.
- Double E requests authorization for its Double E Pipeline Project, which consists of 133 miles of new pipeline that
  would provide up to 1.3 Bcfd of firm takeaway capacity from the Delaware Basin in Eastern New Mexico and Western
  Texas, to delivery points near Waha in Reeves and Pecos Counties, TX.
- Columbia Gas requests authorization for its Lucas and Weaver Wells Abandonment Project, which involves
  abandoning six underperforming injection/withdrawal wells and associated pipelines and appurtenances at its Lucas
  and Weaver Storage Fields in Ashland County, OH. The abandonment will not affect service to its customers.
- Columbia Gas requests authorization for its Brinker Wells Abandonment Project, which involves abandoning three
  injection/withdrawal wells and associated pipelines and appurtenances at its Brinker Storage Field in Columbiana
  County, OH. This project would have no impact on existing customers or storage operations.
- Columbia Gas requests authorization for its Laurel Wells Abandonment Project, including the abandonment of three
  injection/withdrawal wells and associated pipelines and appurtenances at its Laurel Storage Field in Hocking County,
  OH. This project would have no impact on existing customers or operations.



#### **Natural Gas Activities in July 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	5			253	33	16,676		
Proposed	5			2,755	176	312,877		
Storage								
Placed in Service	0	0	0			0		
Certificated	1	0	350			10,000		
Proposed	0	0	0			0		
LNG (Import & Export	t)							
Placed in Service (Export)	1	3.4	713			0		
Certificated (Import/Export)	1	0	1,500			0		
Proposed (Import/Export)	0	0	0			0		

Source: Staff Database

#### Natural Gas Activities through July 31, 2019

January through July 31, 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 July 31, 2018	6			3,671.2	93.6	134,020
Certificated	19			10,240.9	426.6	601,211
through July 31, 2018	31			5,864.1	296.4	152,195
Storage						
Placed in Service	0	0.0	0.0			0
through July 31, 2018	0	0.0	0.0			0
Certificated	3	1.0	429.0			10,000
through July 31, 2018	4	3,600.3	152.0			0
LNG (Import & Export)						
Placed in Service (Export)	3	13.5	2,126.0			0
through July 31, 2018	1	0.0	825.0			0
Certificated (Import/Export)	5	34.3	8,779.0			0
through July 31, 2018	0	0.0	0.0			0

Source: Staff Database



For July 2019

#### **Hydropower Highlights (nonfederal)**

- Lock 13 Hydro Partners filed an application for an original license for the proposed 2.800 MW Evelyn Project No. 14799. The project is located on the Kentucky River, in Lee and Estill Counties, KY.
- Blackstone Hydro Associates filed an application for an relicense with a net increase in capacity of 0.114 MW for the
  existing Central Falls Hydroelectric Project No. 3063. The project is located on the Blackstone River, in Providence
  County, RI.

**Hydropower Project Activities in July 2019** 

Status	Conventional		Pumped Storage		Hydrokinetic		Total No.	Total
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)	of Projects	Capacity (MW)
Filed								
License	2	2.914	0	0	0	0	2	2.914
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
<b>Capacity Amendment</b>	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 July 31, 2019)** 

Status	Coi	nventional	Pump	ed Storage	Hyd	rokinetic	Total No.	Total	
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)	of Projects	Capacity (MW)	
Filed									
License	3	3.764	0	0	1	20.000	4	23.764	
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



For July 2019

#### **Electric Generation Highlights**

- Hale Wind Energy LLC's 478.0 MW Hale County Wind Energy Project in Hale County, TX is online.
- Lockett Wind Farm LLC's 184 MW Electra Wind Farm Phase 2 in Wilbarger County, TX is online.
- Santa Rita East Wind Energy LLC's 200.0 MW Santa Rita Wind East Project in Irion County, TX is online. The power generated is sold to Merck & Co. Inc. and Grupo Bimbo under long-term contracts.
- Synergen Panorama LLC's 6.6 MW Panorama Solar Electric Facility in Prince Georges County, MD is online. The power generated is sold to Pepco under long-term contract.

#### **New Generation In-Service (New Build and Expansion)**

	July 2019			January – July 2019 Cumulative		ary – July 2018 Cumulative
Primary Fuel Type	No. of Installed Units Capacity (MW)		No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	2	45	4	10
Natural Gas	0	0	65	7,268	75	10,469
Nuclear	0	0	1	155	3	30
Oil	0	0	14	74	24	44
Water	0	0	10	47	10	115
Wind	3	862	25	2,863	27	1,991
Biomass	0	0	2	18	12	101
Geothermal Steam	0	0	0	0	3	36
Solar	3	10	207	2,052	345	2,872
Waste Heat	0	0	0	0	1	50
Other *	0	0	18	0	18	2
Total	6	872	344	12,522	522	15,720

#### **Total Available Installed Generating Capacity**

	Installed Capacity (GW)	% of Total Capacity
Coal	256.59	21.38%
Natural Gas	534.57	44.54%
Nuclear	107.31	8.94%
Oil	39.87	3.32%
Water	100.72	8.39%
Wind	99.95	8.33%
Biomass	16.00	1.33%
Geothermal Steam	3.84	0.32%
Solar	39.33	3.28%
Waste Heat	1.32	0.11%
Other*	0.77	0.06%
Total	1,200.26	100.00%

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

<sup>\* &</sup>quot;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 (August 2019 – July 2022)

From ABB Velocity Suite's Generating Unit Capacity Dataset

	All Proposed Additions			ed Additions Construction**	Proposed Retirements		
Primary Fuel Type	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	
Coal	2	94	1	17	57	18,517	
Natural Gas	224	60,622	100	31,151	109	11,316	
Nuclear	9	7,781	1	1,100	9	9,209	
Oil	12	685	2	5	26	1,295	
Water	220	14,595	84	1,900	20	621	
Wind	550	99,434	172	27,153	2	320	
Biomass	59	568	28	472	38	118	
Geothermal Steam	18	860	6	280	0	0	
Solar	2,622	113,118	580	17,041	1	1	
Waste Heat	4	54	2	29	0	0	
Other *	142	475	34	15	1	2	
Total	3,862	298,286	1,010	79,163	263	41,399	

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

### **Electric Transmission Highlights**

ITC Midwest has completed the 9.5 mile, 345 kV Quinn – J426 Project in IA.

		Trans	Proposed Transmiss In-Service by Aug						
Voltage (kV)	July 2019	July 2018	January – July 2019 Cumulative	January – December 2018 Cumulative	Planned and Under Construction	All			
(14.4)	Line Length (miles)								
≤230	0.0	32.0	122.6	481.7	540.0	1,292.8			
345	9.5	39.0	299.5	847.2	752.4	2,129.1			
500	0.0	0.0	7.4	69.4	670.0	1,859.0			
Total U.S.	9.5	71.0	429.5	1,398.3	1,962.4	5,280.9			

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.

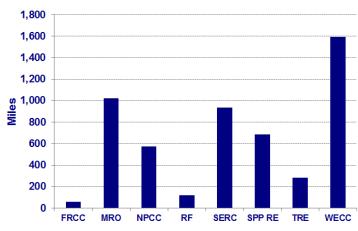
<sup>\* &</sup>quot;Other" includes purchased steam, tires, and miscellaneous technology such as batteries, fuel cells, energy storage, and fly wheel.

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

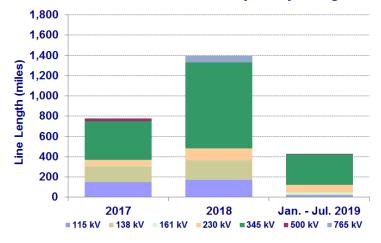


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## All Transmission Projects with a Proposed In-Service Date by August 2021



#### **New Transmission Projects by Voltage**



#### Planned and Under Construction Transmission Projects with a Proposed In-Service Date by



**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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