

For February 2020

## Natural Gas Highlights

- Cameron LNG received authorization to place in service the 0.71 Bcf/d Train 2 at its liquefaction project in Hackberry, LA. The project consists of three trains with a total liquefaction capacity of 2.2 Bcf/d.
- Northern Natural received authorization for its New Lisbon 2020 Expansion Project, including 7.4 miles of branch line looping, additional compression at an existing compressor station, and other appurtenances in Juneau and Sauk Counties, WI. The project would add 15 MMcf/d of incremental capacity.
- Columbia Gas of Maryland received a determination of a service area within which it may, without further Commission authorization, enlarge or expand its facilities in order to transport gas from Somerset County, PA, into Maryland.
- Southern Natural received authorization to abandon in place one compressor unit at its Ellerslie Compressor Station in Harris County, GA.
- UGI Sunbury received authorization to remove and relocate one mile of its Sunbury Pipeline in order to accommodate the construction of a highway project in Snyder County, PA.
- Wyoming Interstate withdrew its request to abandon by sale to its affiliate, Hiland Crude, LLC, Line 29A of its Medicine Bow Lateral in Converse, Platte, and Laramie Counties, WY, and Weld County, CO.
- NGPL received authorization for its Gulf Coast Southbound Project, which would add new compression at compressor stations CS 300, 301, and 304 in Victoria, Wharton, and Harrison Counties, TX respectively, in order to provide up to 300 MMcf/d of transportation capacity to serve the Corpus Christi Liquefaction facility.
- Southern Star Central received authorization to increase the maximum allowable operating pressure on its Lines TLB and TLB-001 to 005, in Hemphill County, TX, in order to provide additional firm delivery capacity to Transwestern.
- Dominion Energy received authorization for its Tri-West Project, including 1.7 miles of pipeline and re-wheeling of three compressors at its Newark Compressor Station in Tuscarawas County, OH, in order to provide up to 120 MMcf/d of firm capacity to Tennessee Gas Pipeline in Ohio.
- Columbia Gulf received authorization to relocate and/or abandon segments of its Line SM-116 in Mingo County, WV, to accommodate highwall and area surface mining on Central Appalachian Mining's Millseat Surface Mine. The project will not change the design or delivery capacity of the system.
- Northern Natural received authorization to abandon in-place it's A and J Lines in Clay, Cloud, Ellsworth, Lincoln, Ottawa, and Rice counties, KS, and build an 11,152 HP compressor and related facilities at its Tescott compressor station in Ottawa County, KS in order to maintain existing deliverability.
- Gulf South received authorization for its McComb Compressor Station Reliability Project in Walthall County, MS, which includes installing a new 8,565 HP compressor and retiring three existing compressors. The project would result in 48 MMcf/d of increased capacity on its system.
- Dominion Energy received authorization to abandon, reconfigure, and relocate storage wells and related pipelines at its Bridgeport Storage Field in Harrison County, WV. The project will not affect the field's parameters or customers.
- Sabine Pass LNG received authorization for its Third Berth Expansion Project, which would add an additional berth at its LNG terminal in Cameron Parish, LA
- Tennessee Gas requests authorization for its Evangeline Pass Expansion Project, including 13.1 miles of pipeline and 23,470 HP of new compression in Plaquemines and St. Bernard Parish, LA, and acquisition of lease capacity from Southern Natural Gas. The project would provide 1.1 Bcf/d of firm transportation capacity to serve the Venture Global Plaquemines LNG terminal.
- Southern Natural requests authorization for its Evangeline Pass Expansion project, including construction of a 22,220 HP compressor station in Clarke County, MS, and two meter stations in MS and TN. The project would provide 1.1 Bcf/d of transportation capacity, which will be leased to Tennessee Gas.
- WBI Energy requests authorization for its North Bakken Expansion Project, including 92 miles of pipeline and 28,250 HP of compression in Burke, McKenzie, Mountrail and Williams Counties, ND, in order to provide an additional 350 MMcf/d of incremental firm transportation capacity from NW North Dakota to a new interconnect with Northern Border.
- National Fuel requests authorization to remove the "spare" designation from 1,775 HP of compression at its Mercer compressor station in Mercer County, PA, in order to re-direct a portion of a subscribing shipper's firm transportation capacity to a different primary delivery point.
- Northwest Pipeline requests authorization for its Walla Walla Compressor Station Project, including installing a 500 HP compressor and associated facilities to expand deliverability on its Walla Walla Lateral from 16.2 to 17.3 MMcf/d.
- Southern Star Central requests authorization for its Tougaloo Project Nash Compressor Station, including a 3,750 HP compressor station in Grant County, OK, in order to provide up to 40 MMcf/d of firm capacity to a customer.



## **Office of Energy Projects Energy Infrastructure Update** For February 2020

- Northern Natural requests authorization to install three injection and withdrawal wells and related facilities at its Redfield Storage Field in Dallas County, Iowa. The project would not affect the capacity or deliverability of the field.
- Port Arthur LNG requests authorization for its Phase II project, including constructing Trains 3 and 4 at its liquefied natural gas terminal in Jefferson County, TX. These trains would provide an additional 1.8 Bcf/d of export capacity.

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	6			483	10	55,507		
Proposed	5			2,591	106	78,190		
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)	1	3.4	713.0			0		
Certificated (Import/Export)	0	0.0	0.0			0		
Proposed (Import/Export)	1	10.2	1,865.0			0		

#### **Natural Gas Activities in February 2020**

Source: Staff Database

#### Natural Gas Activities through February 29, 2020 January through Fohruary 28, 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	0.0	0
through February 28, 2019	2			3,460	0	269,900
Certificated	8			798.0	76.3	55,507
through February 28, 2019	6			924	61	54,013
Storage						
Placed in Service	0	0.0	0.0			0
through February 28, 2019	0	0	0			0
Certificated	0	0.0	0.0			0
through February 28, 2019	1	0	79			0
LNG (Import & Export)						
Placed in Service (Export)	3	3.4	1,461.0			0
through February 28, 2019	0	0	0			0
Certificated (Import/Export)	0	0.0	0.0			0
through February 28, 2019	1	8	1,700			0

Source: Staff Database



# Office of Energy Projects Energy Infrastructure Update For February 2020

# Hydropower Highlights (nonfederal)

There were no hydropower activities this month.

Hydropower Project Activities Year to Date (through February 29, 2020)									
Status	Conventional		Pumped Storage		Hydrokinetic		Total No.	Total	
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)	of Projects	Capacity (MW)	
Filed	Filed								
License	0	0	0	0	0	0	0	0	
10-MW Exemption	0	0	0	0	0	0	0	0	
Capacity Amendment	2	6.575	0	0	0	0	2	6.575	
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



For February 2020

## **Electric Generation Highlights**

- Victoria City Power LLC's 100.0 MW natural gas-fired Victoria City Power Plant in Victoria County, TX is online.
- Wildhorse Wind Energy LLC's 100.0 MW Wildhorse Mountain Wind Facility in Pushmataha County, OK is online. The power generated is sold to Arkansas Electric Cooperative Corporation under long-term contract.
- Pegasus Wind A LLC's 48.7 MW Pegasus Wind Energy Center in Tuscola County, MI is online. The power generated is sold to Michigan Public Power Agency under long-term contract.
- Tampa Electric Co.'s 74.5 MW Little Manatee River Solar Project in Hillsborough County, FL is online.
- Northbrook Lyons Falls LLC's 11.2 MW Lyons Falls Hydoelectric Complex in Lewis County, NY is online.

New Generation in-Service (New Build and Expansion)								
	February 2020			– February 2020 Sumulative	January – February 2019 Cumulative			
Primary Fuel Type	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)		
Coal	0	0	0	0	0	0		
Natural Gas	2	100	7	218	11	203		
Nuclear	0	0	0	0	0	0		
Oil	0	0	0	0	2	5		
Water	2	11	3	13	7	35		
Wind	2	149	4	303	12	772		
Biomass	0	0	0	0	1	17		
Geothermal Steam	0	0	0	0	0	0		
Solar	10	99	38	987	90	1,270		
Waste Heat	0	0	0	0	0	0		
Other *	0	0	0	0	6	0		
Total	16	359	52	1,521	129	2,302		

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

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.

## Total Available Installed Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	248.16	20.62%
Natural Gas	535.04	44.46%
Nuclear	106.33	8.84%
Oil	39.74	3.30%
Water	100.74	8.37%
Wind	106.80	8.87%
Biomass	16.06	1.33%
Geothermal Steam	3.86	0.32%
Solar	44.61	3.71%
Waste Heat	1.32	0.11%
Other*	0.77	0.06%
Total	1,203.41	100.00%

**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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#### **Generation Capacity Additions and Retirements**

(March 2020 – February 2023)

From ABB Velocity Suite's Generating Unit Capacity Dataset

	All Additions		High Prob	ability Additions	Retirements	
Primary Fuel Type	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	1	77	0	0	61	19,082
Natural Gas	231	63,168	97	29,784	72	7,962
Nuclear	6	4,460	4	2,560	4	3,929
Oil	11	682	1	2	22	3,062
Water	236	13,154	92	1,910	9	7
Wind	480	88,977	163	26,416	2	249
Biomass	48	258	23	194	39	102
Geothermal Steam	13	478	4	213	10	35
Solar	2,872	107,729	710	22,593	0	0
Waste Heat	3	49	2	29	0	0
Other *	228	480	52	20	1	2
Total	4,129	279,512	1,148	83,721	220	34,430

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**

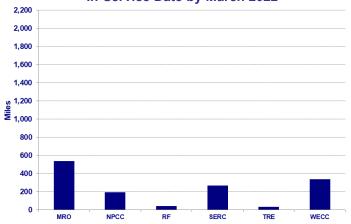
• Central Power Electric Cooperative has completed the 23.8 mile 115 kV East Ruthville - SW Minot Transmission Project in ND.

		Trans	Proposed Transmis In-Service by M						
Voltage (kV)	February 2020	February 2019	January – February 2020 Cumulative	High Probability of Completion	All				
(KV)	Line Length (miles)								
≤230	23.8	32.7	37.6	296.5	347.7	567.3			
345	0.0	163.0	-	604.5	224.0	594.4			
500	0.0	7.7	-	7.7	251.4	251.4			
Total U.S.	23.8	203.4	37.6	908.7	823.1	1,413.1			

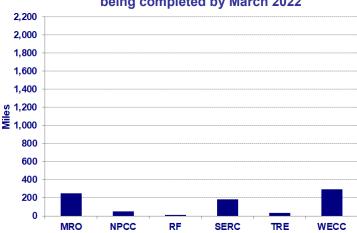
Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©The C Three Group, LLC.



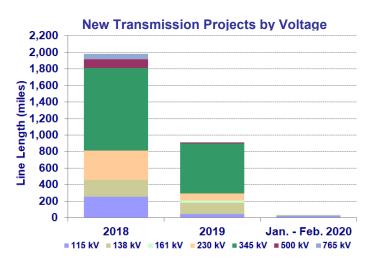
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#### All Transmission Projects with a Proposed In-Service Date by March 2022



#### Transmission Projects with a High Probability of being completed by March 2022



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

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