



Office of Energy Projects Energy Infrastructure Update *For August 2020*

Natural Gas Highlights

- Eastern Shore received authorization to replace two 1.6-mile pipeline segments in New Castle County, DE, with two larger diameter pipeline segments in order to accommodate a Delaware Department of Transportation project and provide 3.5 MMcf/d of additional firm capacity for a customer.
- Dominion Energy received authorization for its Leidy North Project, which would increase firm transportation by 10 MMcf/d from Clinton County, PA to the interconnection with Iroquois in Montgomery, NY by updating hydraulic flow models at certain compressor stations.
- El Paso Natural Gas received authorization for its Carlsbad South Project, including 17.1 miles of looping pipeline in Eddy County, NM, and modifications at a compressor station in Lea County, NM. The project would provide 159 MMcf/d of firm transportation capacity from the Permian Basin to the Keystone Pool in West Texas.
- Enable Gas received authorization for its Merge Arkoma, SCOOP & STACK Project, including 1.5 miles of new pipeline, a new 11,110 HP compressor, and other appurtenances and modifications in Clark and Jackson Counties, AR, Richland Parish, LA, and Grady and McClain Counties, OK. The project would provide up to 100 MMcf/d of firm transportation capacity from OK and TX to points east.
- Dakota Natural Gas was granted a service area determination within which it may, without further Commission authorization, enlarge or expand its natural gas distribution facilities and operations in order to provide service to Trail County and the cities of Hillsboro and Mayville, ND.
- Transco, Sea Robin, and FGT request authorization for the VR-22 to Shore Abandonment Project, which involves abandoning a jointly owned lateral extending from Vermillion Block 22 to shore in Vermillion Parish, LA, and related facilities. The lateral has not been used in over five years, and the platform to which it is attached is being removed.
- Cimarron River requests authorization to abandon by transfer to Ladder Creek 193 miles of pipeline, a finding that most of the line will be non-jurisdictional, and a certificate for Ladder Creek to operate a 23 mile residue pipeline. The pipeline facilities are in Finney, Kearny, Hamilton, Greeley and Wallace counties, KS and Cheyenne County, CO.
- Columbia Gas of Pennsylvania requests an amendment to extend its service area to include the TCO POD 89 pipeline point of delivery in Columbiana County, OH in order to serve approximately 24 customers in Pennsylvania.
- Gulf South requests authorization to abandon in place four compressor units and appurtenant facilities at the Koran Compressor Station in Bossier and Webster Parishes, LA.
- Transco requests authorization to abandon its Shell Elba Lateral and appurtenant metering facilities in St. Landry Parish, LA. The lateral has not been used in over a year.
- Trunkline requests authorization to increase its North-to-South Firm Transportation Service Capacity from south of the Tuscola Compressor Station to the Independence Compressor Station in Tate County MS. The overall increase would be 120 MMcf/d and have no impact on the mainline system's design capacity.
- Transco requests authorization to abandon a supply lateral originating from Eugene Island Block 57, Platform "D" to Ship Shoal Area Block 11 and appurtenant metering facilities, all in federal waters, offshore Louisiana. The lateral has not been used since October 2019.
- ANR requests authorization for its Lincoln Freeman Plug and Abandonment Project, including abandoning by removal 10 injection/withdrawal wells and associated pipelines and appurtenances at its Lincoln/Freeman Storage Field in Clare County, MI, in order to ensure field integrity.
- Equitrans requests authorization to convert its Tepe 3900 injection/withdrawal storage well to an observation well, remove the associated drip, and abandon in place 385 feet of pipeline. The well is located at the Tepe Storage Field in Allegheny County, PA. The project will not have an impact on the field's certificated parameters.
- Columbia Gas requests authorization for its Laurel Wells 9058 and 9129 Abandonment Project, including abandonment of two injection/withdrawal wells and associated pipelines and appurtenances at its Laurel Storage Field in Hocking County, OH. The proposed abandonment will not impact customers or deliverability.
- WBI Energy requests authorization for its Baker Storage Field Well Abandonment Project, including abandoning six natural gas storage wells and 1.9 miles of associated pipelines in Fallon County, MT. The project will not affect firm storage requirements and will not change the field's certificated parameters.
- Columbia Gas requests authorization for its Medina Wells 10090 and 10116 Abandonment Project, involving abandoning these wells and associated appurtenances at its Medina Storage Field in Medina County, OH. The project will have no impact on existing customers or affect existing storage operations.



Office of Energy Projects Energy Infrastructure Update For August 2020

Natural Gas Activities in August 2020

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	4			273	22	11,010
Proposed	1			120	0	0
Storage						
Placed in Service	0	0	0			0
Certificated	0	0	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 August 31, 2020 January through August 31, 2019

Status	No. of Projects	Storage Capacity (BCF)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	4			937.3	61.8	31,776
through August 31, 2019	9			4,785.0	16.6	323,770
Certificated	32			6,191.6	837.2	466,879
through August 31, 2019	22			10,250.9	428.4	614,413
Storage						
Placed in Service	0	0.0	0.0			0
through August 31, 2019	0	0.0	0.0			0
Certificated	2	81.0	2,836.0			11,150
through August 31, 2019	3	1.0	429.0			10,000
LNG (Import & Export)						
Placed in Service (Export)	7	6.8	2,314.0			0
through August 31, 2019	4	23.7	2,839.0			0
Certificated (Import/Export)	3	20.4	1,022.6			0
through August 31, 2019	5	33.6	9,915.0			0

Source: Staff Database



Office of Energy Projects Energy Infrastructure Update For August 2020

Hydropower Highlights (nonfederal)

- The Community of Elfin Cove Non-Profit Corporation, DBA Elfin Cove Utility Commission filed an original license application for the proposed 0.140 MW Crooked Creek and Jim's Lake Hydroelectric Project No. 14514. The project would be located on the Crooked Creek and Jim's Lake, near the community of Elfin Cove, AK.

Hydropower Project Activities in August 2020

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	0.140	0	0	0	0	1	0.140
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 August 31, 2020)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	0.140	1	1,200.000	0	0	2	1,200.140
10-MW Exemption	1	4.500	0	0	0	0	1	4.500
Capacity Amendment	5	19.585	0	0	0	0	5	19.585
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	0	0	0	0	0	0	0	0
10-MW Exemption	1	0.002	0	0	0	0	1	0.002
Capacity Amendment	5	10.481	0	0	0	0	5	10.481
Conduit Exemption	0	0	0	0	0	0	0	0
Placed in Service								
License	1	24.000	0	0	0	0	1	24.000
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



Office of Energy Projects Energy Infrastructure Update For August 2020

Electric Generation Highlights

- Enel-Green Power North America Inc.'s 500.0 MW Cheyenne Ridge Wind Project in Cheyenne County, CO is online.
- Madison Gas & Electric Co.'s 5.0 MW Middleton Arp Solar Project in Dane County, WI is online.
- Enel-Green Power Roadrunner Solar Project II LLC's 200.0 MW Queen Solar Project in Upton County, TX is online.
- Twiggs County Solar LLC's 200.0 MW Twiggs County Solar Project in Twiggs County, GA is online. The power generated is sold to Georgia Power Co. under long-term contract.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	August 2020		January – August 2020 Cumulative		January – August 2019 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	3	20	3	62
Natural Gas	0	0	33	6,029	92	7,664
Nuclear	0	0	0	0	1	155
Oil	0	0	0	0	24	87
Water	0	0	10	62	19	130
Wind	1	500	51	5,208	30	3,506
Biomass	0	0	2	11	14	66
Geothermal Steam	0	0	0	0	0	0
Solar	6	408	238	5,164	335	2,778
Waste Heat	0	0	0	0	1	50
Other *	1	0	17	5	38	0
Total	8	908	354	16,499	557	14,498

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	243.53	20.11%
Natural Gas	539.39	44.55%
Nuclear	104.98	8.67%
Oil	39.73	3.28%
Water	100.78	8.32%
Wind	111.48	9.21%
Biomass	15.76	1.30%
Geothermal Steam	3.88	0.32%
Solar	49.25	4.07%
Waste Heat	1.28	0.11%
Other	0.78	0.06%
Total	1,210.85	100.00%

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



Office of Energy Projects Energy Infrastructure Update *For August 2020*

Generation Capacity Additions and Retirements (September 2020 – August 2023) From ABB Velocity Suite's Generating Unit Capacity Dataset

Primary Fuel Type	All Additions		High Probability Additions		Retirements	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	1	77	0	0	70	23,881
Natural Gas	221	57,522	97	28,361	71	4,948
Nuclear	6	4,460	4	2,560	7	7,190
Oil	16	683	3	4	41	5,023
Water	219	12,137	94	1,039	10	9
Wind	448	87,184	160	28,053	9	292
Biomass	43	255	22	189	14	73
Geothermal Steam	14	512	4	213	10	35
Solar	3,093	125,623	749	30,356	0	0
Waste Heat	3	49	2	29	0	0
Other *	350	475	81	15	1	2
Total	4,414	288,977	1,216	90,819	233	41,453

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

- LS Power has completed the 60.0 mile, 500 kV the Desert Link (Harry Allen – Eldorado) Transmission Project in NV.

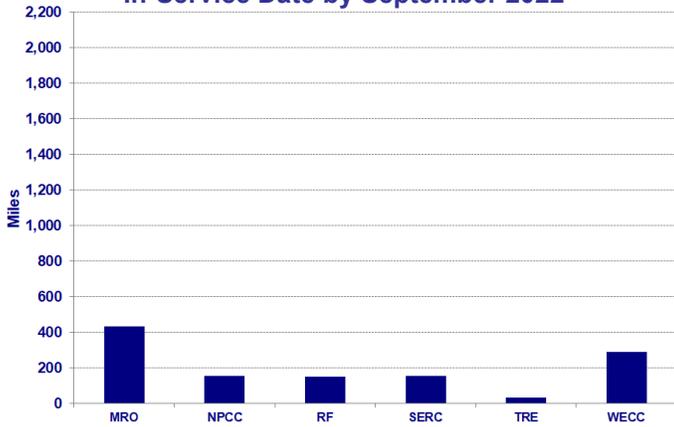
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by September 2022	
	August 2020	August 2019	January – August 2020 Cumulative	January – December 2019 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	0.0	39.0	299.0	241.1	464.1
345	0.0	0.0	152.6	604.5	117.0	560.4
500	60.0	0.0	60.0	7.7	191.4	191.4
Total U.S.	60.0	0.0	251.6	911.2	549.5	1,215.9

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

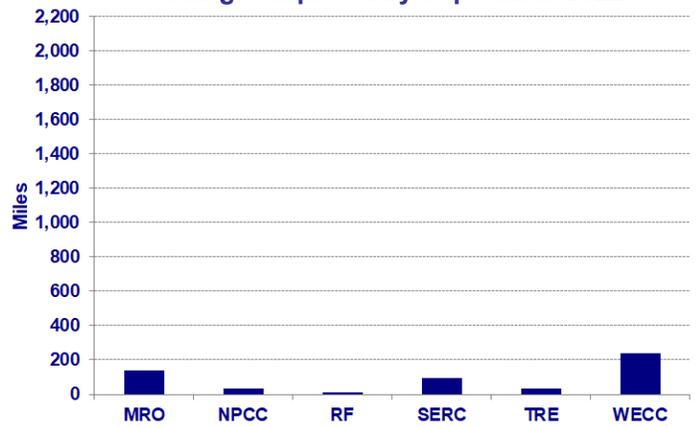


Office of Energy Projects Energy Infrastructure Update *For August 2020*

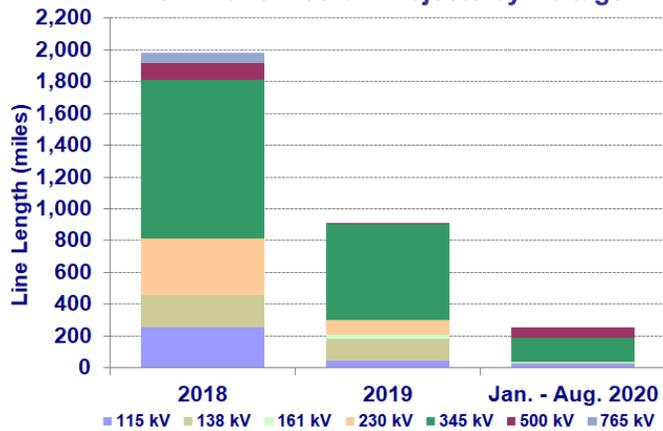
All Transmission Projects with a Proposed In-Service Date by September 2022



Transmission Projects with a High Probability of being completed by September 2022



New Transmission Projects by Voltage



Sources: Data derived from Staff Database 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.