

For December 2015

Natural Gas Highlights

- Transco received authorization to place into service the remaining facilities of its Leidy Southeast Expansion Project which will provide an additional 395 MMcf/d of capacity (totalling 525 MMcf/d) from receipt points in Clinton County, PA to Transco's Station 85 Pooling Point in Choctaw County, AL.
- Transwestern received authorization to place into service compression facilities which will provide 22 MMcf/d of
 capacity in a westerly direction on its Panhandle Lateral beginning in Chaves County, NM and terminating in Hemphill
 County, TX.
- American Midstream received authorization to construct and operate its Natchez Pipeline Project which will provide 48.3 MMcf/d of capacity in portions of LA and MS as approved under a settlement in Docket Nos. RP14-638, et al.
- Texas Eastern received authorization to construct and operate its Gulf Markets Expansion Project which will provide 650 MMcf/d of bi-directional and mainline capacity on its system from the Northeast to the Gulf Coast region of LA and TX.
- Texas Gas received authorization to construct and operate its Southern Indiana Market Lateral Project which will
 provide 53.5 MMcf/d of capacity to serve SABIC Innovative Plastics's existing chemical manufacturing plant and
 planned co-generation plant in Mt. Vernon, IN.
- Equitrans received authorization to construct and operate its Ohio Valley Connector Project which will provide 850 MMcf/d of capacity to Rockies Express Pipeline and Texas Eastern for delivery to mid-continent and Gulf Coast Markets.
- Dominion received authorization to construct and operate its Monroe to Cornwell Project which will provide 205 MMcf/d of capacity on its mainline system from Monroe County, OH to Kanasha County, WV.
- Columbia Gas received authorization to construct and operate its Utica Access Project which will provide 205 MMcf/d
 of capacity from a new interconnection with Dominion to an interconnection with Columbia Gas's existing Line X-52M1 located in Kanawha and Clay Counties, WV.
- Lake Charles LNG Export and Lake Charles LNG received authorization to construct and operate a liquefaction and
 export facility at Lake Charles LNG's existing import terminal near Lake Charles in Calcasieu Parish, LA.. The export
 terminal will provide 2,200 MMcf/d of deliverability from three trains.
- Trunkline received authorization to construct, and operate its Pipeline Modifications Project which will provide 3,100 MMcf/d of capacity for delivery (2,600 MMcf/d) to the Lake Charles Export facility near Lake Charles, LA and to provide bi-directional flow (north-south) on its system in LA.
- Kern River received authorization to abandon and replace a long segment of its 6-inch diameter A-line with thicker walled pipe in Clark County, NV to comply with a class location change by DOT and PHMSA.
- National Fuel received authorization to expand the reservoir and buffer boundaries of its Beech Hill, East Independence, and West Independence storage fields located in Allegany and Steuben Counties, NY. The Commission denied National Fuels request to convert Well 7451 from observation to withdrawal-only status.
- The Commission vacated a portion of the certificate issued to Mississippi Hub to construct and operate salt dome storage caverns and compressor facilities at its existing storage terminal in Simpson County, MS. The facilities would have provided 7.5 Bcf of working gas capacity.
- Columbia Gas requests authorization to construct and operate its WB XPress Project which would provide 1,300 MMcf/d of bi-directional capacity to markets in western WV and northern VA.
- Paulsboro Pipeline requests authorization to construct and operate its 45-Foot Project which would provide an additional 20 MMcf/d of capacity to Paulsboro Refining Company located in Paulsboro, NJ.
- National Fuel requests authorization to construct and operate its Line QP Project and to abandon by sale its Queen Storage Field and facilities located in Forest and Warren Counties, PA. Line QP would maintain existing service to National Fuel Distribution and its customers.
- First ECA Midstream requests authorization to own, operate, and maintain an existing pipeline (the Existing Pipeline
 Project) located in Clearfield and Elk Counties, PA as an interstate pipeline. The Existing Pipeline would provide 152
 MMcf/d of capacity to Dominion Transmission and National Fuel with deliveries to a power plant in Shawville, PA.
- National Fuel requests authorization to construct and operate its Line D Expansion Project which would provide 77.5
 MMcf/d of capacity on its existing Line D system to serve markets in Erie and Warren, PA and maintain existing
 storage withdrawals.
- G2 LNG commenced the Commission's pre-filing process to construct and operate an LNG export terminal (Calcasieu River LNG Project) in Cameron Parish, LA, and pipeline facilities which would provide capacity to the proposed terminal. The export terminal would provide 1,840 MMcf/d of deliverability.



Office of Energy Projects Energy Infrastructure Update For December 2015

Natural Gas Activities in December 2015

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	4			471.0	17.8	49,600
Certificated	9			5,133.8	144.4	185,407
Proposed	6			1,549.5	96.5	186,383
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	0	0	0			0
Certificated (Import/Export)	1	0	2,200			0
Proposed (Export)	1	11.79	1,840			0

Source: Staff Database

Natural Gas Activities through December 31, 2015

January through December 31, 2014

Dandary through December 51, 2014									
Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)			
Pipeline									
Placed in Service through December 31, 2014	31 32			7,475.4 7,273.8	394.2 312.7	291,397 270,689			
Certificated through December 31, 2014	47 35			15,748.0 12,119.2	578.0 534.2	522,580 513,802			
Storage									
Placed in Service through December 31, 2014	6 9	11.4 29.75	53 1,546			6,800 <mark>8,755</mark>			
Certificated through December 31, 2014	2 5	2.7 1.9	0 103			0 2,500			
LNG (Import & Export)	LNG (Import & Export)								
Placed in Service through December 31, 2014	0 0	0 0	0 0			0 0			
Certificated (Import/Export) through December 31, 2014	2 5	0 13.54	3,600 400/7,025*			0 0			

* Import/Export
Source: Staff Database



For December 2015

Hydropower Highlights (nonfederal)

- Lock 14 Hydro Partners, LLC was issued an original license for the proposed 2.64 MW Heidelberg Hydroelectric Project No. 13213. The project will be located at the Kentucky River Authority's Lock and Dam No. 14 on the Kentucky River, near the Town of Heidelberg, Lee County, KY.
- Lock 12 Hydro Partners, LLC was issued an original license for the proposed 2.64 MW Ravenna Hydroelectric Project No. 13214. The project will be located at the Kentucky River Authority's Lock and Dam No. 12 on the Kentucky River, near the Town of Ravenna, Estill County, KY.
- Clean River Power MR-3, LLC was issued an original license for the proposed 3.0 MW Beverly Lock and Dam Water Power Project No. 13404. The project will be located at the Ohio Department of Natural Resources' Beverly Dam on the Muskingum River, near the Village of Beverly, Washington and Morgan Counties, OH.
- Clean River Power MR-5, LLC was issued an original license for the proposed 4.0 MW Malta/McConnelsville Lock and Dam Water Power Project No. 13406. The project will be located at the Ohio Department of Natural Resources' Malta Dam on the Muskingum River, in Morgan County, OH.
- Clean River Power MR-7, LLC was issued an original license for the proposed 3.0 MW Philo Lock and Dam Water Power Project No. 13408. The project will be located at the Ohio Department of Natural Resources' Philo Dam on the Muskingum River, near the Village of Philo, Muskingum County, OH.
- Clean River Power MR-6, LLC was issued an original license for the proposed 4.0 MW Rokeby Lock and Dam Water Power Project No. 13411. The project will be located at the Ohio Department of Natural Resources' Rokeby Dam on the Muskingum River, near Bloom Township, Muskingum and Morgan Counties, OH.
- FFP Missouri 2, LLC was issued an original license for the proposed 14.6 MW Sardis Lake Hydroelectric Project No. 13701. The project will be located at the U.S. Army Corps of Engineers' Sardis Dam on the Little Tallahatchie River, near the Town of Sardis, Panola County, MS.
- FFP Missouri 2, LLC was issued an original license for the proposed 9.0 MW Grenada Lake Hydroelectric Project No. 13702. The project will be located at the U.S. Army Corps of Engineers' Grenada Dam on the Yalobusha River, near the Town of Grenada, Grenada County, MS.
- FFP Missouri 2, LLC was issued an original license for the proposed 4.6 MW Enid Lake Hydroelectric Project No. 13703. The project will be located at the U.S. Army Corps of Engineers' Enid Dam on the Yocona River, near the Town of Enid, Yalobusha County, MS.
- FFP Missouri 2, LLC was issued an original license for the proposed 5.1 MW Arkabutla Lake Hydroelectric Project No. 13704. The project will be located at the U.S. Army Corps of Engineers' Arkabutla Dam on the Coldwater River, near the Town of Arkabutla, Tate and Yalobusha Counties, MS.

Hydropower Project Activities in December 2015

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	0	0	0	0	0	0	0	0	
Conduit Exemption	0	0	0	0	0	0	0	0	
Issued	Issued								
License	10	52.580	0	0	0	0	10	52.580	
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	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



Office of Energy Projects Energy Infrastructure Update For December 2015

Hydropower Project Activities Year to Date (through December 31, 2015)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No.	Total	
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)	of Projects	Capacity (MW)	
Filed	Filed								
License	3	10.300	3	1,033.300	0	0	6	1,043.600	
10-MW Exemption	1	0.192	0	0	0	0	1	0.192	
Capacity Amendment	1	0.600	0	0	0	0	1	0.600	
Conduit Exemption	0	0	0	0	0	0	0	0	
Issued									
License	15	70.498	0	0	0	0	15	70.498	
10-MW Exemption	1	0.600	0	0	0	0	1	0.600	
Capacity Amendment	0	0	0	0	0	0	0	0	
Conduit Exemption	0	0	0	0	0	0	0	0	
Placed in Service	Placed in Service								
License	0	0	1	21.250	0	0	1	21.250	
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 December 2015

Electric Generation Highlights

- Roosevelt Wind Project LLC's 250 MW Roosevelt Wind Project in Roosevelt County, NM is online. The power generated is sold to Southwestern Public Service Co. under long-term contract.
- Javelina Wind Energy LLC's 250 MW Javelina Wind Farm Phase II Expansion Project in Webb County, TX is online. The
 power generated is sold to Austin Energy under long-term contract.
- Shannon Wind LLC's 202.3 MW Shannon Wind Farm Project in Clay County, TX is online.
- South Plains Wind Energy LLC's 200 MW South Plains Wind Energy Phase 1 Project in Floyd County, TX is online.
- Cedar Bluff Wind LLC's 200 MW Cedar Bluff Wind Farm Project in Ness County, KS is online. The power generated is sold to Westar Energy Inc. under long-term contract.
- Slate Creek Wind Project LLC's 150 MW Slate Creek Wind Project in Sumner County, KS is online. The power generated
 is sold to Great Plains Energy Inc. under long-term contract.
- Briscoe Wind Farm LLC's 150 MW Briscoe County Wind Project in Briscoe County, TX is online.
- Green Pastures Wind LLC's 150 MW Green Pastures Wind Phase 2 Expansion Project in Knox County, TX is online.
- Thunder Spirit Wind LLC's 107 MW Thunder Spirit Wind Project in Adams County, ND is online. The power generated is sold to Montana-Dakota Utilities Co. under long-term contract.
- Campbell County Wind Farm LLC's 95 MW Campbell County Wind Project in Campbell County, SD is online. The power generated is sold to Basin Electric Power Cooperative under long-term contract.
- AEP Texas Central Co.'s 80 MW Sendero Wind Energy Project in Jim Hogg County, TX is online.
- Prairie Breeze Wind II LLC's 73 MW Prairie Breeze Wind Expansion Project in Boone County, NE is online. The power generated is sold to Lincoln Electric System under long-term contract.
- Goodwell Wind I, II, and III LLCs' Goodwell Wind I, II, and III Projects in Texas County, OK are online. Each project is 66.7 MW in capacity. The power generated is sold to Public Service Co. of Oklahoma under long-term contract.
- Little Elk Wind Project LLC's 74 MW Little Elk Wind Project in Kiowa County, OK is online. The power generated is sold to Peoples Electric Cooperative under long-term contract.
- Utah Red Hills Renewable Park LLC's 104 MW Utah Red Hills Renewable Park Solar Project in Iron County, UT is online.
 The power generated is sold to Rocky Mountain Power under long-term contract.
- CED Alamo 5 LLC's 100 MW Downie Ranch Solar Project in Uvalde County, TX is online. The power generated is sold to CPS Energy under long-term contract.
- Sustainable Power Group LLC's 26 MW Adera Solar Project in Madera County, CA is online. The power generated is sold to Southern California Edison Co. under long-term contract.
- Constellation Solar Maryland LLC's 20 MW Perryman Solar Farm Project in Harford County, MD is online. The power generated is sold to the Archdioce of Baltimore under long-term contract.
- 67RK 8ME LLC's 16.7 MW Red Crest Solar Project in Kern County, CA is online. The power generated is sold to Pacific Gas and Electric Co. under long-term contract.
- Citizen Solar B LLC's 7 MW Citizen B Project in Fresno County, CA is online.
- Phoenix Solar Inc.'s 5.8 MW University of Illinois Solar Project in Champaign County, IL is online. The power generated is sold to the University of Illinois under long-term contract.
- Pastime Farm LLC's 5 MW Pastime Solar Farm Project in Clay County, IN is online. The power generated is sold to Duke Energy Indiana under long-term contract.
- Meares Solar Center LLC's 5 MW Meares Solar Center Project in Columbus County, NC is online.
- Indiana Michigan Power Co.'s 2.5 MW Deer Creek Solar Project in Grant County, IN is online.



For December 2015

New Generation In-Service (New Build and Expansion)

	De	cember 2015	_	– December 2015 umulative	January – December 2014 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	1	3	3	166
Natural Gas	0	0	50	5,942	82	9,162
Nuclear	0	0	0	0	10	266
Oil	0	0	10	15	19	96
Water	0	0	21	153	19	237
Wind	19	2,544	69	7,977	71	5,319
Biomass	0	0	27	308	92	270
Geothermal Steam	0	0	2	48	7	36
Solar	15	302	248	2,157	426	3,776
Waste Heat	0	0	0	0	4	75
Other *	1	0	16	0	8	22
Total	35	2,846	444	16,602	741	19,425

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 Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity		
Coal	305.05	26.11%		
Natural Gas	500.71	42.85%		
Nuclear	107.03	9.16%		
Oil	44.84	3.84%		
Water	100.06	8.56%		
Wind	73.99	6.33%		
Biomass	16.73	1.43%		
Geothermal Steam	3.91	0.33%		
Solar	14.22	1.22%		
Waste Heat	1.15	0.10%		
Other*	0.77	0.07%		
Total	1,168.48	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.

^{* &}quot;Other" includes purchased steam, tires, and miscellaneous technology such as batteries, fuel cells, energy storage, and fly wheel.



For December 2015

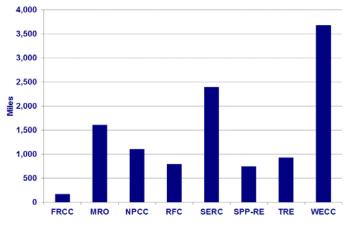
Electric Transmission Highlights

 Connecitcut Light and Power, New England Electric, and Narragansett Electric Company completed 65.3 miles of the Interstate Reliability Project. The 345 kV interstate transmission project connects MA, CT, and RI and it is part of the New England East-West Solution (NEEWS).

		Trans	Proposed Transmission Projects In-Service by December 2017						
Voltage (kV)	December 2015			High Probability of Completion	All				
(1.17)	Line Length (miles)								
≤230	0.0	405.3	198.3	1,202.5	2,644.6	5,086.1			
345	65.3	120.0	903.3	1,659.8	2,328.4	4,458.2			
500	0.0	0.0	294.0	70.0	657.9	1,905.9			
Total U.S.	65.3	525.3	1,395.6	2,932.3	5,630.9	11,450.2			

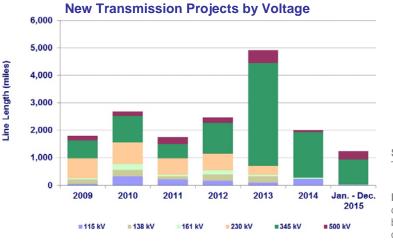
Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2016 The C Three Group, LLC.

All Transmission Projects with a Proposed In-Service Date by December 2017



Transmission Projects with a High Probability of being completed by December 2017





Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2016 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.