



Office of Energy Projects Energy Infrastructure Update For January 2016

Natural Gas Highlights

- Paiute Pipeline received authorization to place into service its 2015 Elko Area Expansion Project which will provide 22 MMcf/d of capacity to serve markets in the Elko, NV area.
- Transwestern received authorization to construct and operate its Malaga Lateral Project which will provide 200 MMcf/d of capacity from a new cryogenic processing plant in Eddy County, NM to markets served by Transwestern.
- Texas Gas received authorization to construct and operate its Western KY Lateral Project which will provide 230 MMcf/d of capacity to TVA's electric generating plant located in Muhlenberg County, KY.
- Regency Field Services requests authorization to vacate the certificate issued to Regency Field Services to own, operate, and maintain the existing Coyanosa Residue Line located in Pecos County, TX as an interstate pipeline. Regency Field Services proposes to transfer the ownership and operation of the pipeline to Oasis Pipeline who will operate the pipeline as a non-jurisdictional pipeline. The Coyanosa Residue Line has a capacity of 100 MMcf/d and connects the Coyanosa processing plant to El Paso Natural Gas pipeline.
- ANR requests authorization to construct and operate its Collierville Expansion Project which would expand delivery pressures on its system to serve TVA's pending 1,070 MW Allen Combined Cycle Power Plant in Memphis, TN.

Natural Gas Activities in January 2016

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	1			22.0	35.2	0
Certificated	2			430.0	37.2	0
Proposed	1			0.0	0.0	4,700
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)	0	0	0			0
Proposed (Export)	0	0	0			0

Source: Staff Database

Natural Gas Activities through January 31, 2016 January through January 31, 2015

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through January 31, 2015	1 1			22.0 100.0	35.2 0.0	0 9,470
Certificated through January 31, 2015	2 0			430.0 0.0	37.2 0.0	0 0
Storage						
Placed in Service through January 31, 2015	0 0	0.0 0.0	0 0			0 0
Certificated through January 31, 2015	0 0	0.0 0.0	0 0			0 0



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For January 2016

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
LNG (Import & Export)						
Placed in Service through January 31, 2015	0	0	0			0
Certificated (Import/Export) through January 31, 2015	0	0	0			0

Source: Staff Database

Hydropower Highlights (nonfederal)

There were no hydropower activities this month.

Electric Generation Highlights

- MidAmerican Energy Co.'s 153.4 MW Adams Wind Project in Adams County, IA is online.
- Fowler Ridge IV Wind Farm LLC's 150 MW Amazon Wind Farm Expansion Project in Benton County, IN is online. The power generated is sold to Amazon Web Services under long-term contract.
- Los Vientos Windpower IV LLC's 110 MW Los Vientos Windpower Phase 2 Expansion Project in Starr County, TX is online. The power generated is sold to Bryan Texas Utilities, Garland Power and Light, and Greenville Electric Utility System under long-term contract.
- Milo Wind Project LLC's 50 MW Milo Wind Project in Roosevelt County, NM is online. The power generated is sold to Southwestern Public Service Co. under long-term contract.
- Patriot Renewables LLC's 4.5 MW Beaver Ridge Hill Wind Project in Waldo County, ME is online.
- Solar Star California XIII, LLC's 108 MW Sun Power Solar Star XIII Project in Merced County, CA is online. The power generated is sold to Southern California Edison Co. under long-term contract.
- 8 Minutes Energy Renewables LLC's 27 MW Hayworth Solar Farm Project in Kern County, CA is online. The power generated is sold to the City of Palo Alto under long-term contract.
- Silicon Ranch Corp's 4 MW Skylark Solar Project and 4 MW Valley View Solar Project, both in Weld County, CO are online. The power generated is sold to Poudre Valley Rural Electric Association under long-term contracts.
- NRG Energy Inc.'s 2 MW Mandalay Bay (MGM) Solar Expansion Project in Clark County, NV is online. The power generated is sold to MGM Resorts International under long-term contract.
- Willey Battery Utility LLC's Willey Battery Storage Project in Hamilton County, OH is online. The facility will provide supply-demand balancing service for the frequency regulation market of PJM.
- Silicon Ranch Corp.'s 4 MW Valley View Solar Project and 4 MW Skylark Solar Project in Weld County, CO are online. The power generated from Valley View is sold to Poudre Valley Rural Electric Association Inc. under long-term contract.
- Chei Solar LLC's 7 MW Chei Solar Project in Nash County, NC is online. The power generated is sold to Duke Energy North Carolinas under long-term-contract.
- Green Farm Solar LLC's 6.2 MW Green Farm Solar Project in Martin County, NC is online. The power generated is sold to Dominion Energy Inc. under long-term-contract.
- Blueberry One LLC's 5 MW Blueberry One Solar Project in Wayne County, NC is online. The power generated is sold to Duke Energy Progress under long-term-contract.
- Murdock Solar LLC's 5.6 MW Murdock Solar Project in Johnston County, NC is online. The power generated is sold to Duke Energy Carolinas under long-term-contract.
- Happy Solar LLC's 5 MW Happy Solar Project in Johnston County, NC is online. The power generated is sold to Duke Energy Progress under long-term-contract.
- Kenneth Solar LLC's 5 MW Kenneth Solar Project in Warren County, NC is online. The power generated is sold to Duke Energy Corp. under long-term-contract.
- Kirkwall Holdings LLC's 5 MW Kirkwall Holdings Solar Project in Sampson County, NC is online. The power generated is sold to Duke Energy Progress under long-term-contract.



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- Cline Solar LLC's 5 MW Cline Solar Project in Burke County, NC is online. The power generated is sold to Duke Energy Carolinas under long-term-contract.
- Coats Solar LLC's 5 MW Coats Solar Project in Harnett County, NC is online.
- McCoy Solar LLC's 42 MW McCoy Solar Energy Phase 5 Expansion Project in Riverside County, CA is online. The power generated is sold to Southern California Edison Co. under long-term contract.
- Silver State Solar Power South LLC's 35.7 MW Silver State South Solar Phase 5 Expansion Project in Clark County, NV is online. The power generated is sold to Southern California Edison Co. under long-term contract.
- NRG Solar Oasis LLC's 20 MW Oasis 20 MW Solar Project in Los Angeles County, CA is online. The power generated is sold to Southern California Edison Co. under long-term contract.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	January 2016		January 2015	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0
Natural Gas	0	0	2	121
Nuclear	0	0	0	0
Oil	0	0	0	0
Water	0	0	0	0
Wind	6	470	8	742
Biomass	0	0	0	0
Geothermal Steam	0	0	0	0
Solar	28	385	27	212
Waste Heat	0	0	0	0
Other *	1	0	0	0
Total	35	855	37	1,075

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 Available Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	303.93	26.00%
Natural Gas	500.11	42.79%
Nuclear	107.03	9.16%
Oil	44.68	3.82%
Water	100.09	8.56%
Wind	74.43	6.37%
Biomass	16.67	1.43%
Geothermal Steam	3.90	0.33%
Solar	15.98	1.37%
Waste Heat	1.16	0.10%
Other*	0.79	0.07%
Total	1,168.77	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.

* "Other" includes purchased steam, tires, and miscellaneous technology such as batteries, fuel cells, energy storage, and fly wheel.



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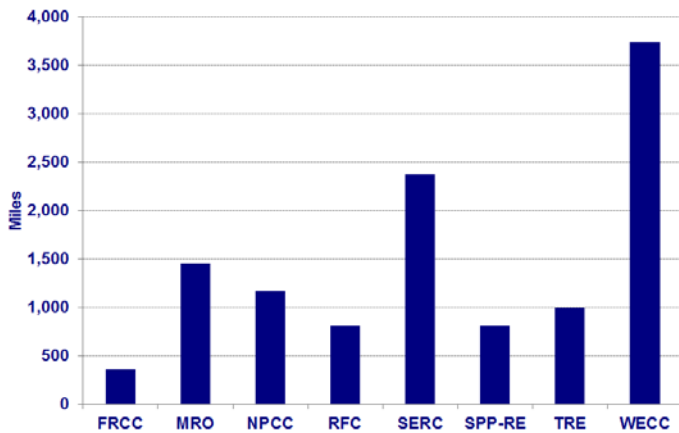
Electric Transmission Highlights

- Xcel Energy has completed the 38 mile, 115 kV Bowers - Howard Transmission Line in TX.

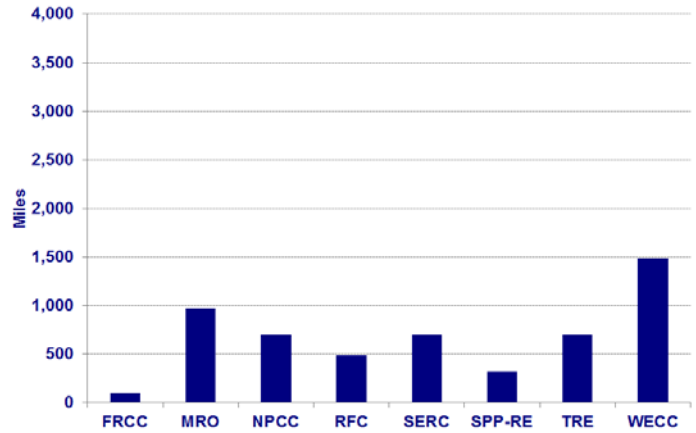
Voltage (kV)	Transmission Projects Completed			Proposed Transmission Projects In-Service by January 2018	
	January 2016	January 2015	January – December 2015 Cumulative	High Probability of Completion	All
	Line Length (miles)				
≤230	38.0	37.0	198.3	2,655.6	5,420.8
345	0.0	0.0	1,048.3	2,211.8	4,381.6
≥500	0.0	0.0	294.0	582.9	1,910.9
Total U.S.	38.0	37.0	1,540.6	5,450.3	11,713.3

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

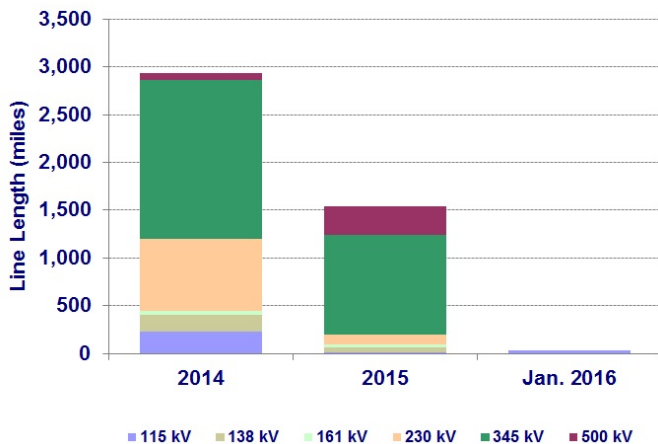
All Transmission Projects with a Proposed In-Service Date by January 2018



Transmission Projects with a High Probability of being completed by January 2018



New Transmission Projects by Voltage



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.