



Office of Energy Projects Energy Infrastructure Update

For January 2014

Natural Gas Highlights

- Petal Gas Storage placed into service 0.45 Bcf of working gas capacity at its Petal Salt Dome's Cavern 12A facility in Forrest County, MS.
- Texas Eastern requested authorization to construct and operate its Ohio Pipeline Energy Network Project which will provide 550 MMcf/d of capacity and reverse flow capabilities from the Utica and Marcellus production areas in Ohio to delivery points along Texas Eastern's system in the Gulf Coast region.
- Freeport LNG requested authorization to reconnect and integrate on a permanent basis the once temporary skid mounted boil-off gas refrigeration/chiller unit system at its existing LNG terminal on Quintana Island, TX. This unit will assist in re-liquefying 5-7 MMcf/d of boil-off gas.
- WBI Energy requested authorization under the Commission's prior notice proceeding to construct and operate its Garden Creek II Pipeline Project. This project will provide 75 MMcf/d of capacity to transport natural gas produced in the Bakken region from the Garden Creek II processing plant in McKenzie County, ND to Northern Border Pipeline.
- Cadeville Gas Storage requested authorization under the Commission's prior notice proceeding to convert 0.6 Bcf of base gas to working gas at its natural gas storage facility in Ouachita Parish, LA.

Natural Gas Activities in January 2014

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
Certificated	0			0.0	0.0	0
Proposed	2			625.0	90.8	18,800
Storage						
Placed in Service	2	0.45	0			4,800
Certificated	0	0.0	0			0
Proposed	1	0.6	0			0
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Export)	0	0	0			0
Proposed (Export)	0	0	0			0

Source: Staff Database

Natural Gas Activities through January 31, 2014

Through January 31, 2013

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, 2013	0 0			0.0 0.0	0.0 0.0	0 0
Certificated through January 31, 2013	0 2			0.0 25.6	0.0 0.5	0 1,950
Storage						
Placed in Service through January 31, 2013	2 0	0.45 0.0	0 0			4,800 0
Certificated through January 31, 2013	0 2	0.0 5.2	0 0			0 0
LNG (Import & Export)						
Placed in Service through January 31, 2013	0 0	0 0	0 0			0 0
Certificated (Export) through January 31, 2013	0 0	0 0	0 0			0 0

Source: Staff Database



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Hydropower Highlights (nonfederal)

- The Pershing County Water Conservation District was issued an original license for the 0.750 MW Humboldt River Hydropower Project No. 14327. The project will be located at the Bureau of Reclamation's Rye Patch Dam, located on the Humboldt River in Pershing County, NV.
- California Department of Natural Resources filed a conduit exemption for the Alamo Powerplant Project No. 14579 to be located in Los Angeles County, CA. It has an estimated total generation capacity of 17,000 MW.
- California Department of Natural Resources filed a conduit exemption for the Mohave Siphon Powerplant Project No. 14580 to be located in San Bernardino County, CA. It has an estimated total generation capacity of 32,400 MW.

Hydropower Activities in January 2014

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
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	2	49.400	0	0	0	0	2	49.400
Issued								
License	1	0.750	0	0	0	0	1	0.750
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

Electric Generation Highlights

- Exelon Corp's 130 MW Antelope Valley Solar Phase II expansion project in Los Angeles County, CA is online. The power generated is sold to Pacific Gas and Electric under long-term contract.
- MidAmerican Solar's 61 MW Topaz Solar Farm Phase III expansion project in San Luis Obispo County, CA is online. The power generated is sold to Pacific Gas and Electric under long-term contract.
- Duke Energy Corp's 20 MW Dogwood Solar Power project in Halifax County, NC is online. The power generated is sold to Dominion Virginia Power under long-term contract.
- NextEra Energy Inc.'s 20 MW Mountain View Solar project in Clark County, NV is online. The power generated is sold to NV Energy under long-term contract.
- Strata Solar LLC has three solar projects that came online in NC: 6 MW Marshville Farm Solar project in Union County, and 6.4 MW Waco Farm Solar project in Cleveland County (The power generated from Marshville and Waco is sold to Duke Energy Carolinas under long-term contracts); and 6.4 MW Nash 58 Farm in Nash County (The power generated from Nash 58 Farm is sold to Progress Energy Carolinas under long-term contract).
- Wagstaff Farm I LLC's 5 MW Wagstaff Farm I Solar project in Person County, NC is online. Power generated is sold to Progress Energy Carolinas under long-term contract.
- KKR Global Infrastructure Investors LP's 20 MW Recurrent Gillespie 1 Solar project in Maricopa County, AZ is online. The power generated is sold to a local utility under long-term contract.



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Electric Generation Highlights (Continued)

- Consolidated Edison Inc.'s 4 MW Russell Point Wind Farm project in Logan County, OH is online. The power generated is sold to Buckeye Power Inc. under long-term contract.
- Gradient Resources Inc.'s 30 MW Patua Hot Springs Geothermal project in Lyon County, NV is online. The power generated is sold to Sacramento Municipal Utility District under long-term contract.
- NRG Yield, Inc.'s 228 MW Alta Wind Energy Center Expansion phase 10 project in Kern County, CA is online. The power generated is sold to Southern California Edison Co. and San Diego Gas & Electric under long-term contracts.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	January 2014		January 2013	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0
Natural Gas	0	0	4	342
Nuclear	0	0	0	0
Oil	0	0	0	0
Water	0	0	3	5
Wind	7	235	7	958
Biomass	9	13	17	29
Geothermal Steam	3	30	0	0
Solar	27	342	27	256
Waste Heat	0	0	1	36
Other	1	1	0	0
Total	47	621	59	1,625

Source: Data derived from Ventyx Global LLC, Velocity Suite.

Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	325.89	28.25%
Natural Gas	485.53	42.09%
Nuclear	106.87	9.26%
Oil	46.02	3.99%
Water	98.23	8.52%
Wind	60.93	5.28%
Biomass	15.86	1.37%
Geothermal Steam	3.87	0.34%
Solar	8.40	0.73%
Waste Heat	1.13	0.10%
Other	0.80	0.07%
Total	1,153.51	100.00%

Source: Data derived from Ventyx Global LLC, Velocity Suite.



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For January 2014



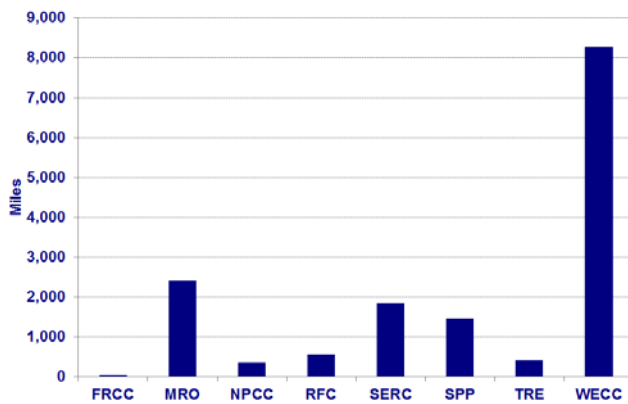
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Electric Transmission Highlights

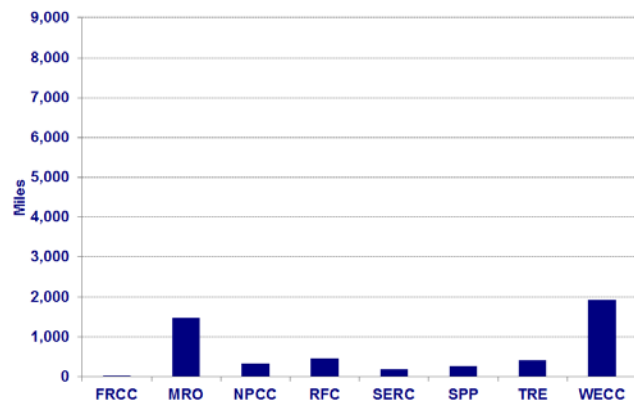
- Wind Energy Transmission Texas completed three 345 kV Competitive Renewable Energy Zone transmission projects, the 37.0 mile Sand Bluff – Divide, the 28.9 mile Bearkat - Sand Bluff; and the 77.4 mile Sand Bluff - Long Draw. The projects are located in Glasscock, Coke, Sterling and Borden counties in TX.

Voltage (kV)	Transmission Projects Completed			Proposed Transmission Projects In-Service by January 2016	
	January 2014	January 2013	January – December 2013 Cumulative	High Probability of Completion	All
	Line Length (miles)				
≤230	0.0	7.0	328.4	931.0	4,222.0
345	143.3	0.0	2,757.2	2,449.0	4,451.3
500	0.0	0.0	448.0	1,705.7	6,630.8
Total U.S.	143.3	7.0	3,533.6	5,085.7	15,304.1

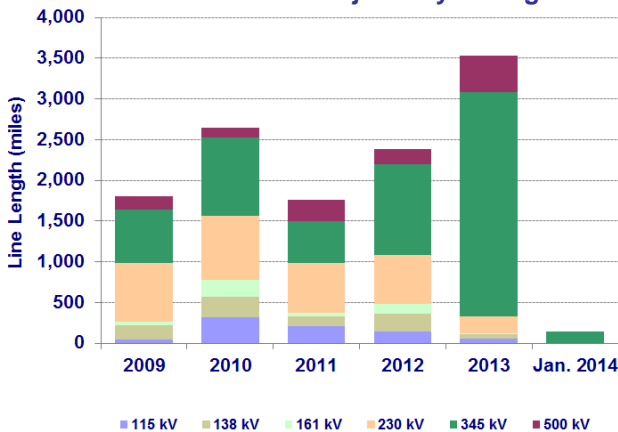
All Transmission Projects with a Proposed In-Service Date January 2016



Transmission Projects with a High Probability of being completed by January 2016



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2014 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.