



Office of Energy Projects Energy Infrastructure Update For November 2014

Natural Gas Highlights

- Transco placed into service its Northeast Connector Project which will provide 100 MMcf/d of capacity from its existing system in York County, PA to an interconnection between its existing Lower NY Bay and proposed Rockaway laterals.
- Transco placed into service a portion of its Virginia Southside Expansion Project which will provide 250 MMcf/d of mainline capacity and bi-directional flow for Virginia Power Services from NJ to NC.
- Texas Gas requests authorization to construct and operate its Southern Indiana Market Lateral Project. This project will provide 166 MMcf/d of capacity to serve Midwest Fertilizer and SABIC Innovative Plastics in Posey County, IN.
- Transco requests authorization to construct and operate its Hillabee Expansion Project which will provide 1,131.7 MMcf/d of capacity from Transco's existing system in Choctaw County, AL to the proposed Sabal Trail pipeline in Tallapoosa County, AL.
- Sabal Trail requests authorization to construct and operate its Sabal Trail Project which will provide 1,075 MMcf/d of capacity from Tallapoosa County, AL to the proposed Florida Southeast Connection in Osceola County, FL.
- Eastern Shore requests authorization to construct and operate its White Oak Mainline Expansion Project which will provide 45 MMcf/d of capacity to Calpine Energy to serve its proposed 309 megawatt power plant in Dover, DE.

Natural Gas Activities in November 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	2			350.0	0.0	16,940
Certificated	0			0.0	0.0	0
Proposed	5			2,457.7	608.8	301,950
Storage						
Placed in Service	1	0.0	0.9			0
Certificated	1	0.0	50.0			0
Proposed	0	0.0	0.0			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 November 30, 2014 Through November 30, 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through November 30, 2013	28 27			6,464.7 4,488.2	300.3 226.5	240,046 155,875
Certificated through November 30, 2013	27 29			7,273.6 7,049.8	262.4 342.2	306,123 185,086
Storage						
Placed in Service through November 30, 2013	8 15	22.25 55.3	146 2,882			8,350 56,620
Certificated through November 30, 2013	4 12	1.2 33.3	50 766			2,500 9,240
LNG (Import & Export)						
Placed in Service through November 30, 2013	0 0	0 0	0 0			0 0
Certificated (Export) through November 30, 2013	4 0	3.4 0	4,885 0			0 0

Source: Staff Database



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Hydropower Highlights (nonfederal)

- City and Borough of Sitka placed in service an additional 17.0 MW at the Blue Lake Project Expansion No. 2230 in Sitka Borough, AK.

Hydropower Activities in November 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	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	1	17.000	0	0	0	0	1	17.000
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database

Hydropower Activities Year to Date (through November 30, 2014)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	14	209.800	0	0	0	0	14	209.800
10-MW Exemption	2	1.800	0	0	0	0	2	1.800
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	2	49.400	0	0	0	0	2	49.400
Issued								
License	12	150.444	3	1,736.000	1	0.600	16	1887.044
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	2	5.185	0	0	0	0	2	5.185
Conduit Exemption	3	49.700	0	0	0	0	3	49.700
Placed in Service								
License	3	11.805	0	0	0	0	3	11.805
10-MW Exemption	1	0.700	0	0	0	0	1	0.700
Capacity Amendment	1	17.000	0	0	0	0	1	17.000
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database



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Electric Generation Highlights

- MidAmerican Renewables LLC's 250 MW Topaz Solar Farms expansion project in San Luis Obispo County, CA is online. The earlier phases with a combined 300 MW came on line in February 2013 and in January 2014. Topaz Solar is the world's largest solar facility with 550 MW total capacity. The power generated is sold to Pacific Gas and Electric Co. under long-term contract.
- Great River Energy's 106 MW lignite-fueled Spiritwood Station project in Stutsman County, ND is online. The power generated is sold to the regional market and the steam to Cargill Malt and Dakota Spirit AgEnergy.
- Stella Wind Farm's 182 MW Panhandle Wind Farm Phase II expansion project in Carson County, TX is online. The 218 MW Phase I came online in July 2014. Panhandle Wind now has 400 MW total capacity.
- Origin Wind Energy LLC's 150 MW Origin Wind Energy project in Murray County, OK is online. The power generated is sold to Arkansas Electric Cooperative Corp. under long-term contract.
- Dominion Energy Inc.'s 20 MW Antelope West Solar Farm in Los Angeles County, CA is online. The power generated is sold to Pacific Electric and Gas Co. under long-term contract.
- Castaic Lake Water Agency's 3.5 MW Rio Vista WWTP Solar Phase II expansion project in Los Angeles County, CA is online. The 1 MW Phase I came online in January 2012. Rio Vista now has 4.5 MW total capacity. The power generated is sold to SunPower Corp. under long-term contract.
- Putah Creek Solar Farms LLC's 2.7 MW Putah Creek Solar project in Yolo County, CA is online.
- Southwestern College's 2.5 MW Southwestern College Chula Vista Solar project in San Diego County, CA is online. The power generated is used on-site at the campus.
- Fresh Air Energy VII LLC's 2.5 MW Logan County Community Solar Garden project in Logan County, CO is online. The power generated is sold to Xcel Energy under long-term contract.
- Fresh Air Energy VIII LLC's 2 MW Mesa County Community Solar Garden project in Mesa County, CO is online. The power generated is sold to Xcel Energy under long-term contract.
- Merced Solar LLC's 1.5 MW Merced Solar project, and Mission Solar LLC's 1.5 MW Mission Solar project, both in Merced County, CA are online. The power generated at both facilities is sold to Pacific Gas and Electric Co. under long-term contract.
- Brick Standard LLC's 5 MW Frenchs Landfill Solar project in Ocean County, NJ is online. This solar project is built on a capped landfill.
- Wisconsin Electric Power Co.'s 140 MW natural gas-fired Valley Power Plant Unit 1 Repowering project in Milwaukee County, WI is online. Valley Power Unit 1 was converted from coal-fired to natural gas-fired.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	November 2014		January – November 2014 Cumulative		January – November 2013 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	1	106	1	106	2	1,543
Natural Gas	1	140	46	5,513	77	6,674
Nuclear	0	0	1	71	0	0
Oil	0	0	15	47	18	49
Water	3	17	10	158	20	246
Wind	4	365	43	2,524	17	1,112
Biomass	0	0	54	291	99	555
Geothermal Steam	0	0	5	32	3	39
Solar	15	315	253	2,358	260	3,054
Waste Heat	1	5	1	5	2	76
Other	0	0	6	7	5	0
Total	25	948	435	11,112	503	13,349

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



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Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	325.99	28.01%
Natural Gas	490.90	42.18%
Nuclear	106.87	9.18%
Oil	46.07	3.96%
Water	98.39	8.45%
Wind	63.22	5.43%
Biomass	16.13	1.39%
Geothermal Steam	3.87	0.33%
Solar	10.41	0.89%
Waste Heat	1.13	0.10%
Other	0.81	0.07%
Total	1,163.79	100.00%

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

Electric Transmission Highlights

- Clean Line Energy Partners advanced the \$2 billion, 500 mile Rock Island transmission project by asking the Iowa regulators for permission to build across 16 counties in the state. The 600 kV DC project is expected to be completed seven years after all approvals are granted.

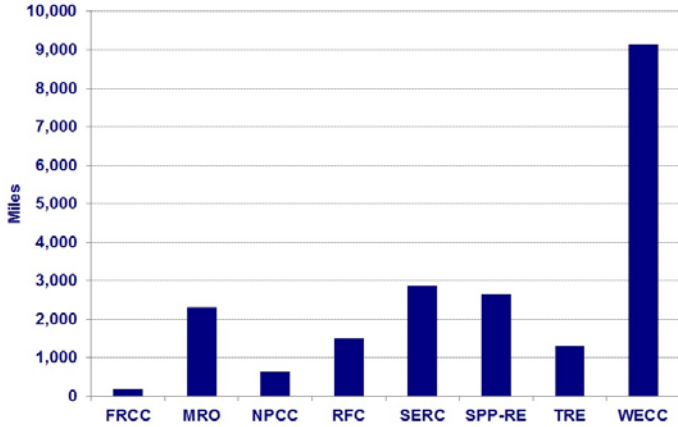
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by November 2016	
	November 2014	November 2013	January – November 2014 Cumulative	January – December 2013 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	2.1	379.7	543.3	3,972.6	7,199.3
345	0.0	85.3	1,137.6	3,631.5	4,318.5	7,044.1
≥500	0.0	0.0	62.0	466.0	2,294.3	6,363.6
Total U.S.	0.0	87.4	1,579.3	4,640.8	10,585.4	20,607.0

Sources: Data derived from Staff Database and U.S. Electric Transmission Projects©2014 The C Three Group, LLC

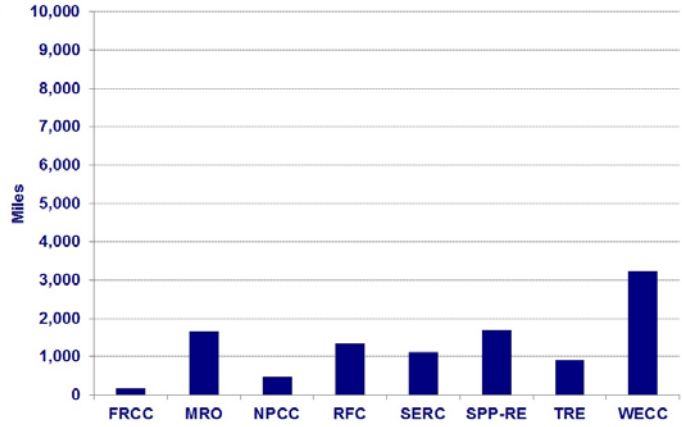


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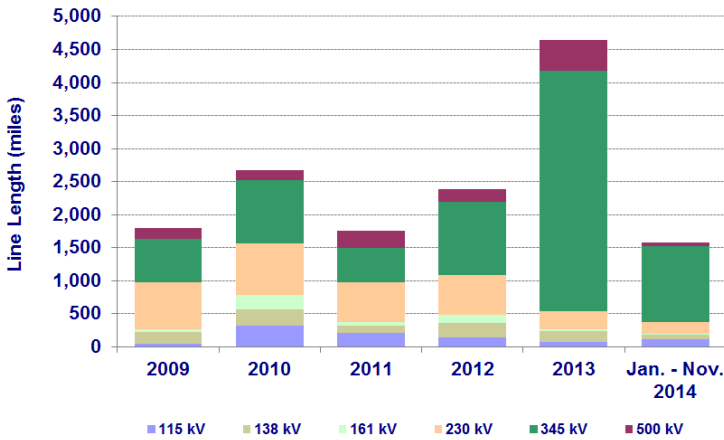
All Transmission Projects with a Proposed In-Service Date by November 2016



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



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects©2014 The C Three Group, LLC
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