



## Office of Energy Projects Energy Infrastructure Update For October 2014

### Natural Gas Highlights

- Texas Eastern received authorization to place into service its TEAM 14 Project. This project will provide 600 MMcf/d of capacity and bi-directional flow along its system in PA to serve markets in the Northeast and Midwest.
- NET Mexico received authorization to place into service its border crossing facilities which will provide 2,100 MMcf/d of capacity to Mexico at the international boundary between the U.S. and Mexico in Starr County, TX.
- PennEast commenced the Commission's pre-filing process to construct and operate its PennEast Pipeline Project. This project will provide 1,000 MMcf/d of capacity from producing areas in eastern PA to markets in PA and NJ.
- Columbia Gas commenced the Commission's pre-filing process to construct and operate its Leach XPress Project which will provide 1,500 MMcf/d of capacity connecting its system in WV and OH to its system in central OH.
- Venture Global commenced the Commission's pre-filing process to construct and operate its Calcasieu Pass LNG export terminal in Cameron Parish, LA. This export terminal will have a deliverability of 1,400 MMcf/d.
- Mountain Valley commenced the Commission's pre-filing process to construct and operate its Mountain Valley Pipeline Project which will provide 2,000 MMcf/d of capacity from northwest WV to southern VA.
- Dominion commenced the Commission's pre-filing process to construct and operate its Supply Header Project. This project will provide 1,500 MMcf/d of capacity for shippers including Atlantic Coast Pipeline from gas supply areas in OH, PA and WV to markets in the Southeast.
- Atlantic Coast Pipeline commenced the Commission's pre-filing process to construct and operate its Atlantic Coast Pipeline Project which will provide 1,500 MMcf/d of capacity from supply areas in WV to markets in VA and NC.

#### Natural Gas Activities in October 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
<b>Pipeline</b>						
Placed in Service	14			5,125.3	207.8	192,156
Certificated	3			137.0	24.5	22,000
Proposed	8			9,565.0	1,221.1	577,685
<b>Storage</b>						
Placed in Service	1	0.0	35.0			3,550
Certificated	0	0.0	0			0
Proposed	2	1.7	63.0			795
<b>LNG (Import &amp; Export)</b>						
Placed in Service	0	0	0			0
Certificated (Export)	0	0	0			0
Proposed (Export)	1	8.64	1,400			0

Source: Staff Database

#### Natural Gas Activities through October 31, 2014 Through October 31, 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
<b>Pipeline</b>						
Placed in Service	26			6,114.7	300.3	223,106
through October 31, 2013	25			4,473.2	214.6	151,175
Certificated	27			7,273.6	262.4	306,123
through October 31, 2013	23			4,009.1	145.3	125,491
<b>Storage</b>						
Placed in Service	7	22.25	145			8,350
through October 31, 2013	15	55.3	2,882			56,620
Certificated	3	1.2	0			2,500
through October 31, 2013	12	33.3	766			9,240



## Office of Energy Projects Energy Infrastructure Update For October 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
<b>LNG (Import &amp; Export)</b>						
Placed in Service through October 31, 2013	0	0	0			0
Certificated (Export) through October 31, 2013	4	3.4	4,885			0

Source: Staff Database

### Hydropower Highlights (nonfederal)

- Green Mountain Power Corporation was issued a new license for the existing Otter Creek Hydro Project No. 2558. The license authorizes an increase in total capacity from 14.349 MW to 22.807 MW. The project is located on Otter Creek in Addison and Rutland Counties, VT.
- Andrew Peklo III was issued an original license for the proposed 0.076 MW Pomperaug Hydro Project No. 12790. The project will be located on the Pomperaug River in the town of Woodbury, Litchfield County, CT.
- Mohawk Hydro Corporation filed an original license application for the proposed 32.0 MW Middle Mohawk Hydro Project No. 12636. The project would consist of eight developments at existing dams owned by the New York State Canal Corporation on the Mohawk River in Montgomery and Schenectady Counties, NY.

#### Hydropower Activities in October 2014

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
<b>Filed</b>								
License	1	32.000	0	0	0	0	1	32.000
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
<b>Issued</b>								
License	2	8.534	0	0	0	0	2	8.534
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
<b>Placed in Service</b>								
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 Activities Year to Date (through October 31, 2014)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
<b>Filed</b>								
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



## Office of Energy Projects Energy Infrastructure Update *For October 2014*

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
<b>Issued</b>								
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
<b>Placed in Service</b>								
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	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database

### Electric Generation Highlights

- Black Hills Corp. and Cheyenne Light, Fuel and Power's jointly owned 132 MW natural gas-fired Cheyenne Prairie Generating Station project in Laramie County, WY is online. Black Hills official said the power generated from Cheyenne Prairie replaces much of the lost power of the company's three old coal-fired plants that were closed.
- Limon Wind III LLC's 201 MW Limon Wind Energy Center Phase II Expansion project in Lincoln County, CO is online. The 400 MW Phase I came online in October 2012. Limon Wind Energy Center now has 601 MW total capacity. The power generated is sold to Xcel Energy Inc. under long-term contract.
- Nemaha Wind Farm LLC's 129 MW Nemaha Wind Farm project in Nemaha County, KS is online.
- Consumers Energy Co.'s 105 MW Cross Winds Energy Park project in Tuscola County, MI is online.
- Broken Bow Wind II LLC's 75 MW Broken Bow Wind Expansion project in Custer County, NE is online. The 80 MW Phase I came online in October 2012. Broken Bow Wind now has 155 MW total capacity. The power generated is sold to Nebraska Public Power District under long-term contract.
- Windthorst II LLC's 69 MW Windthorst II Wind project in Archer County, TX is online.
- CED White River Solar II LLC's 19 MW SPS White River Solar II Expansion project in Tulare County, CA is online. The 22 MW Phase I came online in July 2013. SPS White River now has 41 MW total capacity. The power generated is sold to Pacific Gas and Electric under long-term contract.
- Claire Solar Partners LLC's 2.2 MW Claire Solar Farm project in Chittenden County, VT is online. The power generated is sold to Vermont Electric Power Producers Inc. under long-term contract.
- East Texas Electric Coop. Inc.'s 50 MW Woodville Biomass project in Tyler County, TX is online. Woodville Biomass is fueled by forestry products.
- US Army Fort Drum's 28 MW US Army Fort Drum Biomass project in Jefferson County, NY is online. Fort Drum Biomass is fueled by forestry products.
- Sunshine Gas Producers LLC's 23.5 MW LFG-fired Sunshine Canyon Landfill project in Los Angeles County, CA is online. The power generated is sold to Pacific Gas and Electric under long-term contract.
- Dynamic Energy Solution's 2 MW Skidmore College Solar project in Saratoga County, NY is online. The power generated is used onsite at the campus.
- NRG Energy Inc.'s 5.1 MW Mandalay Bay (MGM) Solar II Expansion project in Clark County, NV in online. Mandalay Bay now has 6.6 MW total capacity. The power generated is used on-site at the MGM Resort and Casino.



## Office of Energy Projects Energy Infrastructure Update For October 2014

### New Generation In-Service (New Build and Expansion)

Primary Fuel Type	October 2014		January – October 2014 Cumulative		January – October 2013 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0	2	1,543
Natural Gas	3	132	45	5,373	72	6,647
Nuclear	0	0	1	71	0	0
Oil	0	0	15	47	11	35
Water	0	0	7	141	17	119
Wind	5	574	34	2,189	13	1,031
Biomass	7	102	45	241	86	439
Geothermal Steam	0	0	5	32	1	14
Solar	5	31	208	1,801	239	2,628
Waste Heat	0	0	0	0	2	76
Other	0	0	6	7	5	0
<b>Total</b>	<b>20</b>	<b>839</b>	<b>366</b>	<b>9,903</b>	<b>448</b>	<b>12,532</b>

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

### Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	328.31	28.17%
Natural Gas	490.59	42.09%
Nuclear	107.55	9.23%
Oil	46.25	3.97%
Water	98.37	8.44%
Wind	62.78	5.39%
Biomass	16.08	1.38%
Geothermal Steam	3.87	0.33%
Solar	9.87	0.85%
Waste Heat	1.13	0.10%
Other	0.80	0.07%
<b>Total</b>	<b>1,165.60</b>	<b>100.00%</b>

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



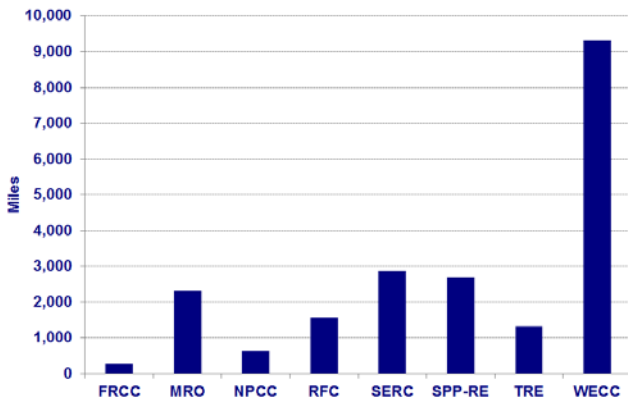
# Office of Energy Projects Energy Infrastructure Update For October 2014

## Electric Transmission Highlights

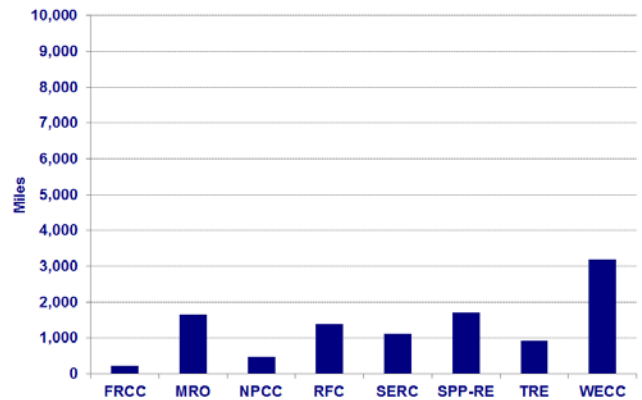
- Bryan Texas Utilities has completed the 6 mile, 138 kV Millican - HWY 6 transmission project in TX.

Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by October 2016	
	October 2014	October 2013	January – October 2014 Cumulative	January – December 2013 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	6.0	36.7	379.7	543.3	4,044.7	7,492.5
345	0.0	339.0	1,137.6	3,631.5	4,318.5	7,076.1
≥500	0.0	0.0	62.0	466.0	2,326.7	6,396.0
<b>Total U.S.</b>	<b>6.0</b>	<b>375.7</b>	<b>1,579.3</b>	<b>4,640.8</b>	<b>10,689.9</b>	<b>20,964.6</b>

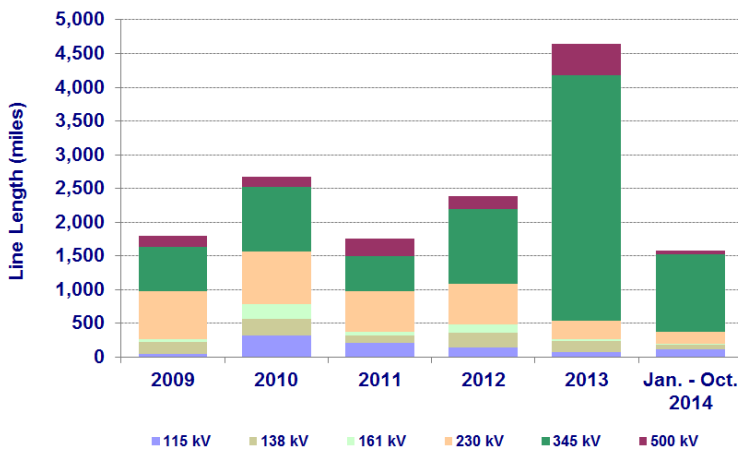
**All Transmission Projects with a Proposed In-Service Date by October 2016**



**Transmission Projects with a High Probability of being completed by October 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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