



Office of Energy Projects Energy Infrastructure Update For June 2014

Natural Gas Highlights

- Sierrita Gas Pipeline received authorization to construct and operate a pipeline and border facility which will provide 201 MMcf/d of capacity to Mexico at the international boundary in Pima County, AZ.
- Cameron LNG and Cameron Interstate Pipeline received authorization to construct and operate an LNG export terminal (1,700 MMcf/d) at Cameron LNG's existing import terminal in Cameron, LA, and pipeline facilities to provide 2,330 MMcf/d of capacity to the proposed terminal.
- Rockies Express requested authorization to construct and operate its Zone 3 East-to-West Project. This project will provide 1,200 MMcf/d of east to west capacity within Zone 3 located in OH, IN, IL, and MO.
- Dominion requested authorization to construct and operate its Clarington and New Market Projects which will provide 250 MMcf/d and 112 MMcf/d, respectively, of transportation capacity for shippers with markets in the Northeast.
- ET Rover commenced the Commission's pre-filing process to construct and operate its Rover Pipeline Project which will provide 2,200 MMcf/d of capacity from producing areas in OH, PA, and WV to markets in the Midwest.
- Equitrans commenced the Commission's pre-filing process to construct and operate its Ohio Valley Connector Project which will provide 900 MMcf/d of capacity from production areas in WV and PA to pipeline interconnections in OH.

Natural Gas Activities in June 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	4			3,055.8	88.4	56,820
Proposed	9			4,876.0	706.8	325,153
Storage						
Placed in Service	0	0.0	0			0
Certificated	0	0.0	0			0
Proposed	0	0.0	0			0
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Export)	1	3.4	1,700			0
Proposed (Export)	0	0	0			0

Source: Staff Database

Natural Gas Activities through June 30, 2014

Through June 30, 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	6			578.2	50.3	30,950
through June 30, 2013	8			1,252.0	12.9	69,660
Certificated	16			5,742.2	189.2	204,153
through June 30, 2013	16			3,196.6	103.3	61,550
Storage						
Placed in Service	5	17.25	110			4,800
through June 30, 2013	8	30.9	1,785			56,620
Certificated	2	1.2	0			500
Through June 30, 2013	8	29.2	766			9,240
LNG (Import & Export)						
Placed in Service	0	0	0			0
through June 30, 2013	0	0	0			0
Certificated (Export)	2	3.4	2,260			0
through June 30, 2013	0	0	0			0

Source: Staff Database



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Hydropower Highlights (nonfederal)

- Eagle Crest Energy Company was issued an original license for the proposed 1,300 MW Eagle Mountain Pumped Storage Hydroelectric Project No. 13123. The project will be located on the site of the inactive Eagle Mountain mine, in Riverside County, CA, near the town of Desert Center. The project will operate as a closed-loop, pumped storage facility with water for the initial reservoir fill and replenishment supplied by groundwater wells.

Hydropower Activities in June 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	1	1,300.000	0	0	1	1,300.000
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
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

Hydropower Activities Year to Date (through June 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	12	172.800	0	0	0	0	12	172.800
10-MW Exemption	1	1.200	0	0	0	0	1	1.200
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	2	49.400	0	0	0	0	2	49.400
Issued								
License	6	135.920	2	1,336.000	1	0.600	9	1,472.520
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	1	1.295	0	0	0	0	1	1.295
Conduit Exemption	0	0	0	0	0	0	0	0
Placed in Service								
License	2	7.205	0	0	0	0	2	7.205
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



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Electric Generation Highlights

- Kansas Municipal Energy Agency's 36.9 MW natural gas-fired Jameson Energy Center new build project in Finney County, KS is online. The Jameson Energy Center is comprised of three 12.3 MW units.
- Southern Minnesota Municipal Power Agency's 25 MW natural gas-fired Fairmont Energy Station expansion project in Martin County, MN is online. The Fairmont Energy Station expansion is comprised of four 6.25 MW units.
- Xeres Ventures LLC's 9.1 MW oil-fired Santa Clara SC1 Data Center expansion project in Santa Clara County, CA is online. The power generated is sold to DuPont Fabros Technology under long-term contract.
- Tri-County Water Conservancy District's 8 MW Tri-County Hydro Power project in Oury County, CO is online. The power generated is sold to the City of Aspen under long term contract.
- First Wind's 14 MW Warren Solar project in Worcester County, MA is online. The power generated is sold to National Grid USA under long-term contract.
- KDC Solar Branchburg LLC's 8.2 MW KDC Solar Branchburg project in Somerset County, NJ is online. The power generated is sold to Eli Lilly under long-term contract.
- NRG Solar Community I LLC's 6 MW Community Solar 1 project in Imperial County, CA is online. The power generated is sold to Imperial Irrigation District under long-term contract
- Lepomis PV Energy LLC's 4.5 MW LDF Lepomis Solar project in Plymouth County, MA is online.
- Arba Solar LLC's 2 MW Arba Solar project in Greene County, NC is online. The power generated is sold to Duke Energy Progress under long-term contract.
- Denver Solar IV LLC's 2 MW DIA Solar IV project in Denver County, CO is online. The power generated is sold to the Denver International Airport under long term contract.
- U.S. Department of Energy's 11.5 MW Pantex Renewable Energy Project in Carson County, TX is online. The power generated is used at the Pantex plant.
- Two Dot Wind Farm LLC's 9.7 MW Two Dot Wind Farm project in Wheatland County, MT is online. The power generated is sold to Northwestern Energy Montana under long term contract.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	June 2014		January – June 2014 Cumulative		January – June 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	8	63	18	1,555	41	4,498
Nuclear	0	0	0	0	0	0
Oil	1	9	2	10	6	32
Water	2	8	5	16	10	81
Wind	2	21	18	699	10	963
Biomass	2	5	28	87	53	136
Geothermal Steam	0	0	5	32	1	14
Solar	11	40	102	1,131	127	1,194
Waste Heat	0	0	0	0	1	36
Other	0	0	2	1	2	0
Total	26	146	180	3,529	253	8,496

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	329.51	28.45%
Natural Gas	486.21	41.82%
Nuclear	107.41	9.24%
Oil	46.42	4.03%
Water	99.64	8.57%
Wind	61.45	5.26%
Biomass	16.05	1.37%
Geothermal Steam	3.87	0.33%
Solar	9.25	0.75%
Waste Heat	1.13	0.10%
Other	0.80	0.07%
Total	1,161.72	100.00%

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

Electric Transmission Highlights

- PSEG Power has completed the 30 mile, 230 kV Branchburg - Bridgewater Transmission Line. The \$72 million project is located in NJ.
- Sharyland Utilities, L.P. has completed the 12 mile, 138 kV LaPalma – Palo Alto Transmission Line in TX.
- FirstEnergy has completed the 2 mile, 345 kV Homer City – Hansome Lake Transmission Line. The \$31 million project is located in PA.
- FirstEnergy has completed the 2.4 mile, 230 kV Conemaugh – Seward Transmission Line. The \$29.8 million project is located in PA.
- FirstEnergy has completed the 1.4 mile, 345 kV Chamberlin – Mansfield Transmission Line. The \$8.1 million projected is located in OH.

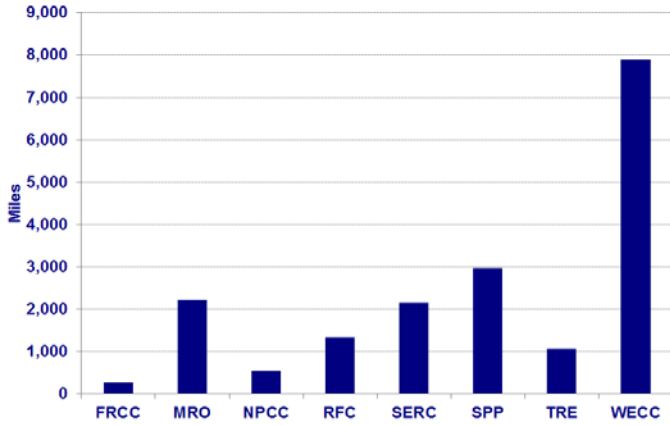
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by June 2016	
	June 2014	June 2013	January – June 2014 Cumulative	January – December 2013 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	44.4	18.1	288.0	470.2	3,801.3	6,552.2
345	3.4	260.2	419.3	2,795.2	4,467.6	6,103.4
≥500	0.0	0.0	62.0	466.0	2,138.7	5,742.0
Total U.S.	47.8	278.3	769.3	3,731.4	10,407.6	18,397.6

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

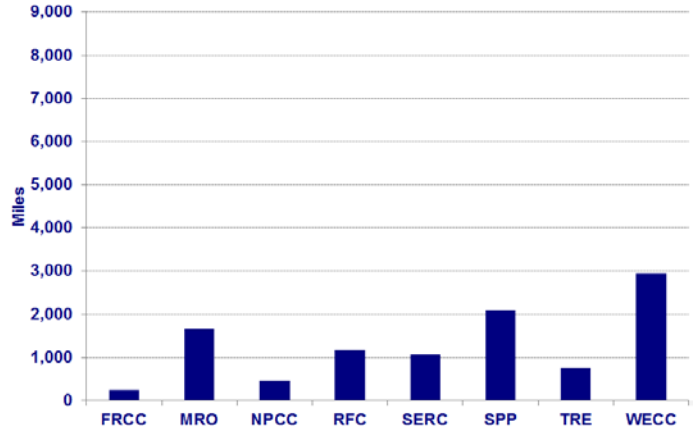


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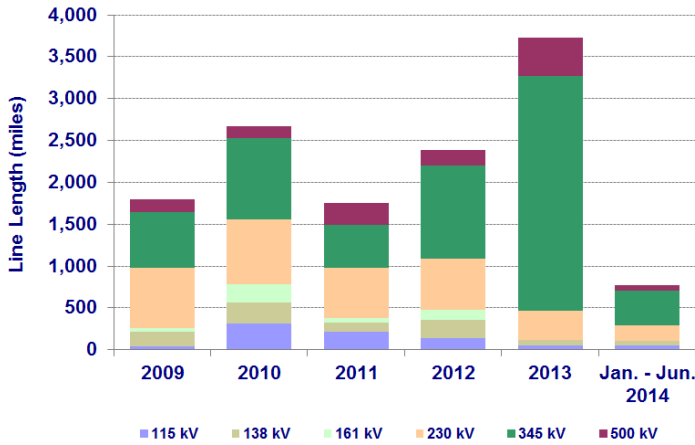
All Transmission Projects with a Proposed In-Service Date by June 2016



Transmission Projects with a High Probability of being completed by June 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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