



Office of Energy Projects Energy Infrastructure Update For August 2013

Natural Gas Highlights

- Transco placed into service a portion of its Northeast Supply Link Project, which will provide 125 MMcf/d of firm transportation capacity between its Leidy Line in PA and delivery points in NJ and New York City.
- Alliance placed into service its Tioga Lateral Project, which will provide 106.5 MMcf/d of capacity connecting the Bakken Shale formation in eastern MT and western ND to Alliance's mainline in ND.
- National Fuel requested authorization under the Commission's prior notice proceeding to construct and operate its Mercer Compressor Project, which will provide 105 MMcf/d of firm transportation capacity to a shipper producing Marcellus Shale gas in western PA.
- East Tennessee requested authorization to construct and operate its Kingsport Expansion Project, which will provide 61 MMcf/d of transportation capacity for Eastman Chemical to serve its manufacturing facility in Sullivan County, TN.
- Northern requested authorization to construct and operate its West Leg 2014 Expansion Project in IA and NE. This project will provide 88 MMcf/d of firm, winter peak day capacity for two shippers located in its Market Area.
- Clarksville G&W commenced the Commission's pre-filing process to construct and operate its Interconnection Pipeline Project, which will provide 52 MMcf/d of new capacity from KY to its local distribution system in TN.

Natural Gas Activities in August 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	4			606.5	91.8	8,180
Certificated	0			0.0	0.0	0
Proposed	4			306.4	41.7	17,730
Storage						
Placed in Service	3	2.4	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)	0	0	0			0
Proposed (Export)	0	0	0			0

Source: Staff Database

Natural Gas Activities through August 31, 2013 Through August 31, 2012

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through August 31, 2012	12 9			1,858.5 1,317.1	104.7 211.1	77,840 54,950
Certificated through August 31, 2012	17 15			3,196.6 3,623.8	103.7 105.4	61,550 86,660
Storage						
Placed in Service through August 31, 2012	10 11	35.2 72.7	1,370 1,345			47,380 94,305
Certificated through August 31, 2012	11 8	31.6 52.8	766 1,740			9,240 49,020
LNG (Import & Export)						
Placed in Service through August 31, 2012	0 0	0 0	0 0			0 0
Certificated (Export) through August 31, 2012	0 1	0 0	0 2,600			0 0

Source: Staff Database



Office of Energy Projects Energy Infrastructure Update For August 2013

Hydropower Highlights (nonfederal)

- Copper Valley Electric Association, Inc. was issued an original license for the proposed 6.5 MW Allison Creek Hydroelectric Project No. 13124. The project will be located on Allison Creek in an unorganized borough near Valdez, AK.
- The Catamount Metropolitan District was issued a small-hydro exemption from licensing for the proposed 0.695 MW Lake Catamount Hydroelectric Project No. 14368. The project will be located at the Catamount Metropolitan District's existing Lake Catamount dam on the Yampa River near Steamboat Springs, in Routt County, CO.
- The Carlsbad Municipal Water District, was issued an order granting exemption from licensing (conduit) for the proposed 0.135 MW Pressure Control Hydroelectric Facility Project No. 14501. The project will be located on Carlsbad's municipal water system at a pressure reducing station in the City of Carlsbad in San Diego County, CA.
- The Public Utility District No. 1 of Snohomish County filed an original license application for the proposed 6 MW Calligan Creek Hydroelectric Project No. 13948. The project would be located on Calligan Creek near North Bend, in King County, WA.
- The Public Utility District No. 1 of Snohomish County filed an original license application for the proposed 6 MW Hancock Creek Hydroelectric Project No. 13994. The project would be located on Hancock Creek near North Bend, in King County, WA.

Hydropower Activities in August 2013

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	2	12.000	0	0	0	0	2	12.000
5-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	1	6.500	0	0	0	0	1	6.500
5-MW Exemption	1	0.695	0	0	0	0	1	0.695
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	1	0.135	0	0	0	0	1	0.135
Placed in Service								
License	0	0	0	0	0	0	0	0
5-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 August 31, 2013)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	8	96.860	0	0	0	0	8	96.860
5-MW Exemption	1	0.040	0	0	0	0	1	0.040
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	4	0.552	0	0	0	0	4	0.552
Issued								
License	6	19.060	0	0	0	0	6	19.060
5-MW Exemption	4	1.033	0	0	0	0	4	1.033
Capacity Amendment	2	7.375	0	0	0	0	2	7.375
Conduit Exemption	5	0.680	0	0	0	0	5	0.680



Office of Energy Projects Energy Infrastructure Update For August 2013

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Placed in Service								
License	1	4.400	0	0	0	0	1	4.400
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	2	0.960	0	0	0	0	2	0.960
Conduit Exemption	1	0.037	0	0	0	0	1	0.037

Source: Staff Database

Electric Generation Highlights

- Calpine Corp's two combined-cycle natural gas-fired plants in the San Francisco Bay area, CA are online: 1) 620 MW Russell City plant; 2) 140 MW Los Esteros Critical Energy Facility Phase 2 Expansion. The power generated at both plants is sold to PG&E under long-term contract.
- NRG Energy's 537 MW natural gas-fired El Segundo Power Expansion in Los Angeles County, CA is online. The power generated is sold to Southern California Edison under long-term contract.
- Three solar plants with a total of 464 MW capacity in Imperial County, CA are online: 1) Southern Co.'s 139 MW Campo Verde Solar Project; 2) LS Power Group's 125 MW Centinela Solar Energy Phase 1; and 3) AES Corp's 200 MW Imperial Valley Solar Phase 1. The power generated from these facilities is sold to SDG&E under long-term contracts and delivered to San Diego via the Sunrise Powerlink.
- EDF Group's 67 MW Catalina Renewable Energy Project Phase 2 in Kern County, CA is online. The 50 MW Phase 1 Project came online in December 2012. The power generated is sold to SDG&E under long-term contract.
- Consolidated Edison's 21 MW SPS Corcoran Solar in Kings County, CA is online. The power generated is sold to PG&E under long-term contract.
- Ten solar plants with a total of 19.5 MW in NC are online. The power generated from the following plants is sold to Progress Energy Carolinas under long-term contracts: Snow Hill Solar I & II, and Arba Solar, 2 MW each, in Greene County; East and West Wayne Solar, 2 MW each, in Wayne County; 2 MW Castalia Solar in Nash County; 2 MW Franklin Solar II in Franklin County; 2 MW Kinston Solar in Lenoir County; and 1.5 MW Onslow Energy in Onslow County. The power generated by 2 MW NC One in Northampton County is sold to Dominion North Carolina Power under long-term contract.
- Solventerra LLC's 2 MW N. Brookfield Apple Solar in Worcester County, MA is online.
- Granger Electric Co.'s 3.2 MW Orchard Hill Landfill Gas in Berrien County, MI is online.
- Delaware Electric Cooperative's 4 MW Bruce A. Henry Solar Energy in Sussex County, DE is online

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	August 2013		January – August 2013 Cumulative		January – August 2012 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	2	1,543	3	2,359
Natural Gas	3	1,297	55	6,487	81	5,049
Nuclear	0	0	0	0	1	0
Oil	1	1	5	29	32	65
Water	0	0	12	114	9	8
Wind	0	0	8	959	72	4,095
Biomass	2	3	49	171	99	409
Geothermal Steam	0	0	1	14	9	148
Solar	20	578	148	1,774	181	897
Waste Heat	0	0	2	76	1	3
Other	0	0	2	0	2	0
Total	26	1,879	284	11,168	490	13,033

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



Office of Energy Projects Energy Infrastructure Update For August 2013

Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	337.56	28.92%
Natural Gas	489.44	41.94%
Nuclear	106.78	9.15%
Oil	47.21	4.05%
Water	99.06	8.49%
Wind	60.12	5.15%
Biomass	15.19	1.30%
Geothermal Steam	3.78	0.32%
Solar	6.02	0.52%
Waste Heat	1.14	0.10%
Other	0.80	0.07%
Total	1,167.11	100.00%

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

Electric Transmission Highlights

- Southern California Edison Co. has completed the 111 mile, 500 kV Devers – Colorado River Transmission Project.
- Electric Transmission Texas LLC has completed the 65 mile, 345 kV Riley – Tesla Transmission Project. The \$111 million project is a part of the Competitive Renewable Energy Zone initiative (CREZ) in TX.
- Cross Texas Transmission has completed the 109 mile, 345 kV Gray – Tesla Transmission Project. The project is part of the CREZ in TX.
- West Penn Power Co., a subsidiary of FirstEnergy, has completed the 14 mile, 138 kV Kirby - Monongalia Transmission Project. The \$20 million interstate project connects PA and WV

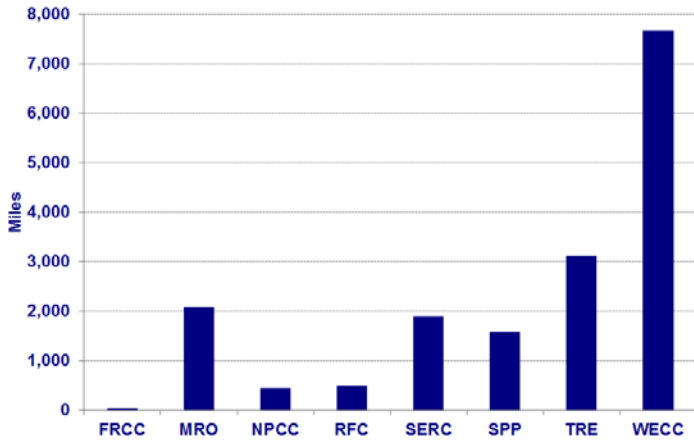
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by August 2015	
	August 2013	August 2012	January – August 2013 Cumulative	January – December 2012 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	14.0	82.0	90.8	1,072.8	1,160.3	4,342.0
345	174.0	0	1,170.7	1,086.6	5,224.3	7,278.6
500	111.0	0	176.0	187.5	1,772.7	5,690.8
Total U.S.	299.0	82.0	1,437.5	2,346.9	8,157.3	17,311.4

Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2013 The C Three Group, LLC

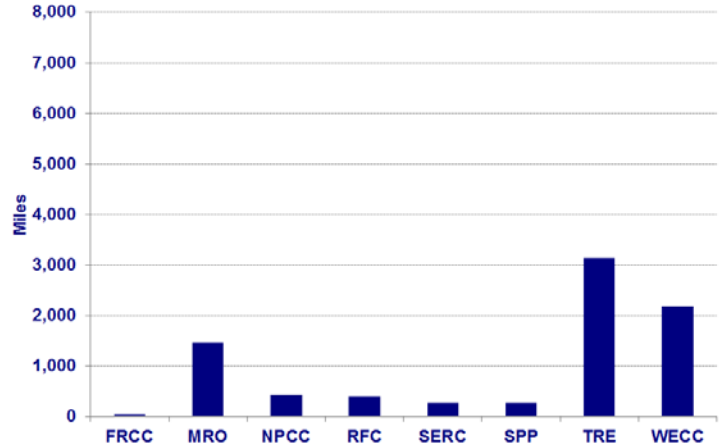


Office of Energy Projects Energy Infrastructure Update *For August 2013*

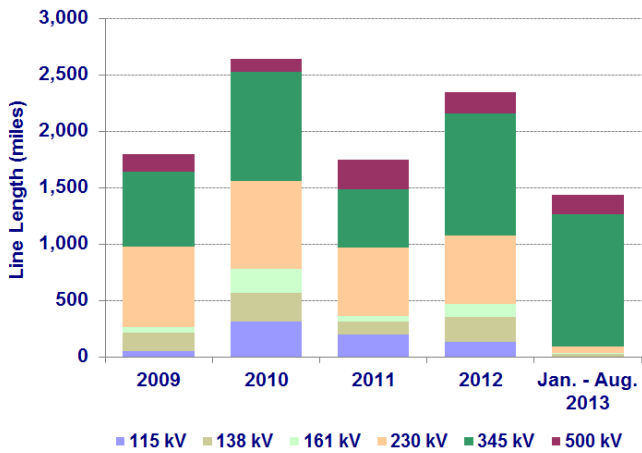
All Transmission Projects with a Proposed In-Service Date by August 2015



Transmission Projects with a High Probability of being completed by August 2015



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2013 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.