



Office of Energy Projects Energy Infrastructure Update For July 2015

Natural Gas Highlights

- Rockies Express received authorization to place into service a portion of its Zone 3 East-to-West Project which will provide 1,200 MMcf/d of bi-directional capacity between the Clarington Hub and the delivery point with Natural Gas Pipeline in Moultrie County, IL.
- Texas Eastern received authorization to place into service a portion of its U2GC Project which will provide 244 MMcf/d out of the total authorized capacity of 425 MMcf/d for two shippers on its mainline system in PA and OH.
- Equitrans placed into service its H-312 Pipeline Project which will provide 100 MMcf/d of additional capacity to its existing mainline system in Harrison County, WV.
- Gulf South Pipeline placed into service 1.02 Bcf of working gas capacity at its Cavern 12A in its Petal Storage facility located in Forrest County, MS.
- Southern Natural received authorization to abandon, construct, and operate pipeline facilities, as part of its North Main Lines Relocation Project all in response to longwall mining operations in Jefferson County, AL.
- DBM Pipeline received authorization to own and operate its existing Ramsey Residue Line located in Reeves County, TX as a jurisdictional pipeline. The Ramsey Residue Line will provide 275 MMcf/d of capacity from the Ramsey processing plant to an interconnection with El Paso Natural Gas Pipeline in Reeves County, TX.
- Floridian Natural Gas Storage received authorization to reduce its previously authorized storage capacity by 3 Bcf from 8 Bcf to 5 Bcf at its LNG storage facility near Indiantown in Martin County, FL.
- The Commission vacated the certificate issued to Windy Hill Gas Storage to construct and operate a salt bed gas storage facility in Morgan County, CO. The storage facility would have provided 6 Bcf of working gas capacity.
- The Commission vacated the certificate issued to BCR Holding to construct and operate a salt dome storage facility in Lafourche Parish, LA. The storage facility would have provided 15 Bcf of working gas capacity.
- Venture Global Plaquemines LNG commenced the Commission's pre-filing process to construct and operate an LNG export terminal (providing 2,800 MMc/d of deliverability) in Plaquemines Parish, LA, and pipeline facilities which would provide 2,800 MMcf/d of capacity to the proposed terminal.
- UGI Sunbury requests authorization to construct and operate its Sunbury Pipeline Project which would provide 200 MMcf/d of capacity for shippers with markets in central PA, including a proposed electric generation facility in Snyder County, PA.
- Transco requests authorization to construct and operate its New York Bay Expansion Project which would provide 115 MMcf/d of capacity to serve the supply needs of National Grid NY.
- Equitrans requests authorization to abandon and replace pipeline facilities as part of its TP-371 Pipeline Replacement Project on its existing system in Armstrong and Indiana Counties, PA. These facilities would improve system integrity, reliability, and safety on its existing system.
- Trans-Union Interstate requests authorization under the Commission's prior-notice procedures to increase the capacity of its existing system in LA and AR by 30 MMcf/d in order to serve El Dorado Chemical Company's facility located in Union County, AR.
- Hiland Partners Holding requests authorization to operate its existing Bakken and Norse Residue Line Projects, located in Richland County, MT and Divide County, ND, respectively, as jurisdictional pipelines. The Bakken Residue Line provides 26 MMcf/d of capacity between the Bakken processing plant and Williston Basin Pipeline, and the Norse Residue Line provides 21 MMcf/d of capacity between the Norse processing plant and Williston Basin Pipeline.
- National Grid LNG commenced the Commission's pre-filing process to construct and operate liquefaction facilities (Field Point Liquefaction Project) at its existing LNG facility in Providence, RI. These liquefaction facilities would provide 20 MMcf/d of deliverability.
- DBM Pipeline requests authorization under the Commission's prior-notice procedures to construct and operate a residue pipeline which would provide 459 MMcf/d of capacity from the Ramsey processing plant in Reeves County, TX to an interconnection with El Paso Natural Gas Pipeline in Eddy County, NM.
- Columbia Gulf requests authorization to construct and operate its Rayne XPress Expansion Project which would provide 621 MMcf/d of bi-directional capacity on its mainline system in KY to serve markets in the Gulf region.



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Natural Gas Activities in July 2015

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	3			1,544.0	9.5	0
Certificated	2			275.0	12.9	0
Proposed	9			4,272.0	124.7	67,440
Storage						
Placed in Service	1	1.02	0.0			0
Certificated	0	0.0	0.0			0
Proposed	1	0.0	20.0			0
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Import/Export)	0	0	0			0
Proposed (Export)	1	16.9	2,800			0

Source: Staff Database

Natural Gas Activities through July 31, 2015 January through July 31, 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through July 31, 2014	14 7			5,029.7 808.2	96.5 57.9	106,095 30,950
Certificated through July 31, 2014	20 19			5,806.0 5,851.9	295.1 222.0	207,573 213,623
Storage						
Placed in Service through July 31, 2014	3 5	3.4 17.25	53 110			0 4,800
Certificated through July 31, 2014	2 3	2.7 1.2	0 0			0 2,500
LNG (Import & Export)						
Placed in Service through July 31, 2014	0 0	0 0	0 0			0 0
Certificated (Import/Export) through July 31, 2014	1 3	0 3.4	1,400 4,060			0 0

Source: Staff Database



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Hydropower Highlights (nonfederal)

There were no hydropower activities this month.

Hydropower Project Activities Year to Date (through July 31, 2015)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	2	5.600	1	240.000	0	0	3	245.600
10-MW Exemption	1	0.192	0	0	0	0	1	0.192
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	3	17.250	0	0	0	0	3	17.250
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	1	21.250	0	0	1	21.250
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

- Louisville Gas & Electric Co. and Kentucky Utilities Co.'s 690 MW natural gas-fired Cane Run Unit 7 Project in Jefferson County, KY is online. Unit 7 replaced the old coal-fired units 4, 5 and 6.
- Goose Lake Solar LLC's 12 MW Goose Lake Solar Project in Kern County, CA is online. The power generated is sold to PacifiCorp under long-term contract.
- SPS Corcoran West LLC's 20 MW SPS Corcoran West Solar Project in Tulare County, CA is online. The power generated is sold to Pacific Gas and Electric Co. under long-term contract.
- Osage Wind LLC and Enel Green Power North America Inc.'s 150 MW Osage County Wind Project in Osage County, OK is online. The power generated is sold to Associated Electric Cooperative Inc. under long-term contract.
- MC Power Companies Inc.'s 3 MW Macon Solar Power Project in Macon County, MO is online.
- Coldwater Board of Public Utility's 13.2 MW natural-gas-fired Coldwater BPU Peaking Plant Project in Branch County, MI is online.
- Potsdam NY (Village of)'s 0.86 MW Potsdam West Dam Hydro Project in Saint Lawrence County, NY is online.
- Catalina Solar 2 LLC's 18 MW Catalina Renewable Energy Phase 3 Project in Kern County, CA is online. The power generated is sold to Southern California Edison Co. under long-term contract.
- ESA Four Oaks NC 1 LLC's 6.5 MW ESA Four Oaks NC I Solar Project, and ESA Princeton NC LLC's 6.5 MW ESA Princeton NC Solar Project, in Johnston County, NC are online. The power generated by both facilities is sold to Duke Energy Progress under long-term contract.
- Luke Air Force Base's 15 MW Luke AFB Solar Project in Maricopa County, AZ is online. The power generated is sold to Maricopa County under long-term contact. The power generated is sold to Arizona Public Service Co. under long-term contract.



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- Nitro Solar LLC's 7 MW Nitro Solar Project in Johnston County, NC is online. The power generated is sold to Duke Energy Carolinas under long-term contract.
- Sarah Solar LLC's 7 MW Sarah Solar Project in Franklin County, NC is online. The power generated is sold to Duke Energy Carolinas under long-term contract.
- Solar Management Services LLC's 5 MW Wadesboro Solar Farm Project in Anson County, NC is online. The power generated is sold to Duke Energy Progress under long-term contract.
- Albertson Solar LLC's 5 MW Albertson Solar Project in Duplin County, NC is online. The power generated is sold to Duke Energy Progress under long-term contract.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	July 2015		January – July 2015 Cumulative		January – July 2014 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	1	3	1	30
Natural Gas	4	703	33	2,556	32	3,327
Nuclear	0	0	0	0	0	0
Oil	0	0	7	10	11	44
Water	2	1	19	149	13	181
Wind	2	150	21	2,319	27	1,265
Biomass	0	0	14	215	44	86
Geothermal Steam	0	0	1	45	7	36
Solar	16	119	131	878	197	1,576
Waste Heat	0	0	0	0	2	75
Other	0	0	6	0	6	7
Total	24	973	233	6,176	340	6,628

Sources: Data derived from Velocity Suite, ABB Inc., and The C Three Group LLC

Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	308.05	26.51%
Natural Gas	498.45	42.89%
Nuclear	107.02	9.21%
Oil	45.02	3.87%
Water	100.06	8.61%
Wind	68.19	5.87%
Biomass	16.61	1.43%
Geothermal Steam	3.90	0.34%
Solar	12.85	1.11%
Waste Heat	1.11	0.10%
Other	0.81	0.07%
Total	1,162.07	100.00%

Sources: Data derived from Velocity Suite, ABB Inc., and The C Three Group LLC



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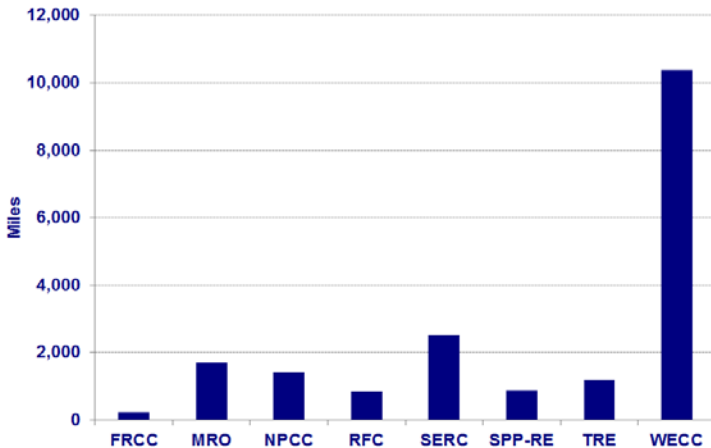
Electric Transmission Highlights

- The 750 mile, 600 kV interstate merchant transmission line, Grain Belt Express, was rejected by the Missouri Public Service Commission. The estimated cost was \$2.2 billion with a proposed route through KS, MO, IL and IN.

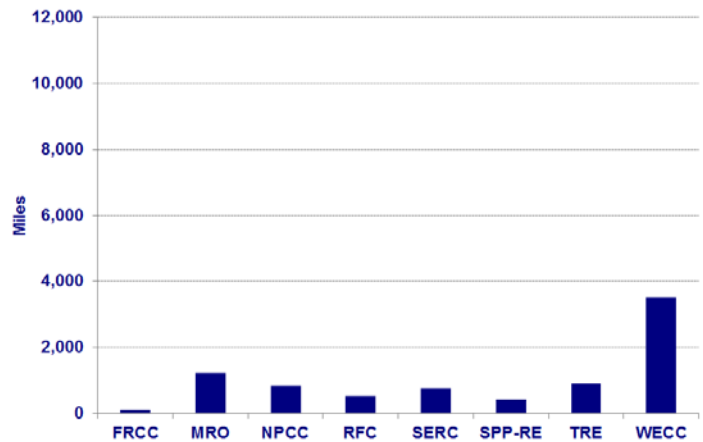
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by July 2017	
	July 2015	July 2014	January – July 2015 Cumulative	January – December 2014 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	11.4	116.4	1,218.5	3,521.7	6,574.4
345	0.0	250.0	556.7	1,659.8	2,580.8	5,055.6
500	0.0	0.0	256.0	70.0	2,205.9	7,533.9
Total U.S.	0.0	261.4	929.1	2,948.3	8,308.4	19,163.9

Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2015 The C Three Group, LLC

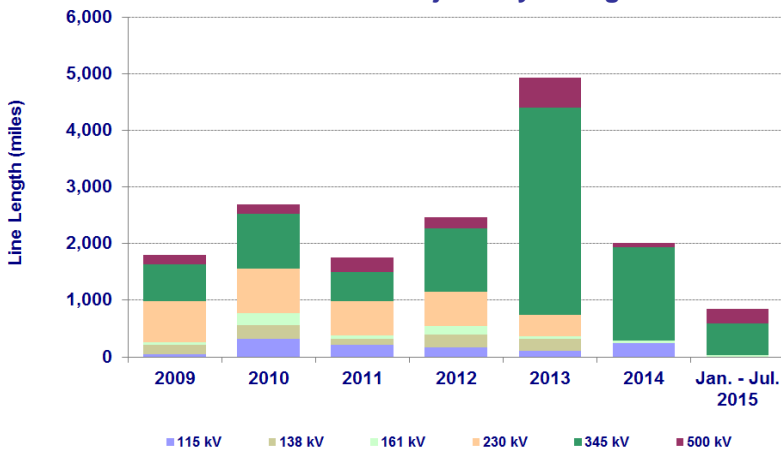
All Transmission Projects with a Proposed In-Service Date by July 2017



Transmission Projects with a High Probability of being completed by July 2017



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2015 The C Three Group, LLC
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