



Office of Energy Projects Energy Infrastructure Update For July 2013

Natural Gas Highlights

- Perryville Gas Storage received authorization under the Commission's prior notice proceeding to reclassify 1.0 Bcf of base gas to working gas in Cavern PGS-1 at its gas storage facility located in Franklin and Richland Parishes, LA.
- Natural received authorization under the Commission's prior notice proceeding to convert 1.0 Bcf of base gas to working gas at the Mount Simon Reservoir within the Herscher Storage Field located in Kankakee County, IL.
- Natural received authorization to increase the maximum working gas inventory at its Cooks Mill gas storage field located in Douglas and Coles Counties, IL by 0.35 Bcf.
- Transco requested authorization to construct and operate its Mobile Bay South III Expansion Project which will provide 225 MMcf/d of firm, southbound transportation capacity on Transco's Mobile Bay Lateral in AL.
- DCP Midstream requested authorization to construct and operate its 230 MMcf/d Lucerne Residual Pipeline from a proposed gas processing plant (Lucerne II Gas Plant) to an interconnection with CIG in Weld County, CO.
- The Commission vacated the authorization issued to Caledonia to modify (DP33 Project) its existing storage facility in Lowndes County, MS. The Commission clarified that the storage field will have a working gas capacity of 20.6 Bcf.

Natural Gas Activities in July 2013

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	1			0.0	0.4	0
Proposed	3			505.0	7.6	21,500
Storage						
Placed in Service	1	4.0	350			0
Certificated	3	2.3	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 July 31, 2013

Through July 31, 2012

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	8			1,252.0	12.9	69,660
through July 31, 2012	6			687.9	81.1	21,205
Certificated	17			3,196.6	103.7	61,550
through July 31, 2012	13			3,017.8	97.2	86,660
Storage						
Placed in Service	7	32.8	1,370			47,380
through July 31, 2012	9	49.2	1,245			62,505
Certificated	11	31.6	766			9,240
through July 31, 2012	7	52.8	1,700			49,020
LNG (Import & Export)						
Placed in Service	0	0	0			0
through July 31, 2012	0	0	0			0
Certificated (Export)	0	0	0			0
through July 31, 2012	1	0	2,600			0

Source: Staff Database



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Hydropower Highlights (nonfederal)

- The Public Utility District No. 1 of Okanogan County, WA, was issued an original license for the proposed 9 MW Enloe Hydroelectric Project No. 12569. The project will be located on the Similkameen River near Oroville, in Okanogan County, WA.
- The Birch Power Company filed an original license application for the proposed 48 MW Demopolis Lock and Dam Hydroelectric Project No. 13102. The project would be located at the existing U.S. Army Corps of Engineers' Demopolis Lock and Dam on the Tombigbee River, west of Demopolis, in Marengo and Sumter Counties, AL.
- The Antrim Treatment Trust filed a small-hydro exemption from licensing application for the 0.040 MW Antrim Micro-Hydropower Project No. 14537. The existing, unlicensed project has an installed capacity of 0.020 MW and is not connected to the electric grid. The proposed project would include an additional 0.020 MW turbine connected to the electric grid. The project is located on an unnamed tributary to Bridge Run in Duncan Township, Tioga County, PA.

Hydropower Activities in July 2013

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	48.000	0	0	0	0	1	48.000
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	0	0	0	0	0	0	0	0
Issued								
License	1	9.000	0	0	0	0	1	9.000
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
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 July 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	6	84.860	0	0	0	0	6	84.860
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	5	12.560	0	0	0	0	5	12.560
5-MW Exemption	3	0.338	0	0	0	0	3	0.338
Capacity Amendment	2	7.375	0	0	0	0	2	7.375
Conduit Exemption	4	0.545	0	0	0	0	4	0.545



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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

- NRG Energy Inc's 44 MW natural gas-fired Dover Energy Phase expansion in Kent County, DE is online.
- Lansing Board of Water & Light's 100 MW natural gas-fired Reo Town Cogeneration Plant in Ingham County, MI is online.
- Delta-Montrose Electric Association's 3.5 MW South Canal Hydroelectric Phase 2 in Montrose County, CO is online. The 4 MW Phase 1 came online in June. The South Canal mainly serves irrigation in the Uncompahgre Valley and will only generate power seven months of the year.
- Four solar projects in NC are online. 1) FLS Energy Inc's 2 MW Dunn Solar Farm II in Harnett County, has a long-term contract with Progress Energy Carolinas; 2) Kenansville Solar 2 LLC's 2 MW Kenansville Solar 2 in Duplin County, has a long-term contract with Progress Energy Carolinas; 3) Loy Farm Solar LLC's 2 MW Loy Farm Solar in Alamance County, has a long-term contract with Duke Energy Carolinas; 4) Strata Solar LLC's 1.8 MW Peanut Farm Solar in Chowan County, has a long-term contract with North Carolina Eastern Municipal Power Agency.
- Limerick Road Solar LLC's 2.2 MW Limerick Road Project in Chittenden County, VT is online. The power generated is sold to Vermont Electric Power Producer, Inc. under long-term contract.
- Soitech SA's 1.5 MW Newberry Springs Solar Phase 1 in San Bernardino County, CA is online. Phase 2 with an additional 1.5 MW is expected to be online in June 2014. The power generated is sold to SoCal Edison under long-term contract.
- Graphic Packaging International Inc's 40 MW Graphic Packaging Biomass plant in Macon County, GA is online. The biomass system is fueled by logging residual at the Macon paperboard mill. The power generated will be used onsite.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	July 2013		January – July 2013 Cumulative		January – July 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	10	168	51	5,185	80	4,808
Nuclear	0	0	0	0	1	0
Oil	0	0	4	28	28	62
Water	3	36	12	114	9	8
Wind	0	0	8	959	68	3,773
Biomass	2	42	41	162	91	395
Geothermal Steam	0	0	1	14	9	148
Solar	15	50	117	1,110	171	842
Waste Heat	1	40	2	76	1	3
Other	0	0	2	0	2	0
Total	31	336	240	9,191	463	12,397

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	336.66	28.92%
Natural Gas	487.96	41.92%
Nuclear	106.78	9.17%
Oil	47.21	4.06%
Water	99.06	8.51%
Wind	60.12	5.16%
Biomass	15.18	1.30%
Geothermal Steam	3.78	0.32%
Solar	5.45	0.47%
Waste Heat	1.10	0.09%
Other	0.84	0.07%
Total	1,164.15	100.00%

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

Electric Transmission Highlights

- Oncor Electric Delivery Co. LLC has completed the 161 mile, 345 kV Riley – Krum West Transmission Project. The project is a part of the Competitive Renewable Energy Zone initiative (CREZ) in TX.
- Sharyland Utilities has completed the 25.5 mile, 345 kV Nazareth – Hereford Transmission Project. The project is a part of the CREZ in TX.
- Electric Transmission Texas LLC has completed the 41.6 mile, 345 kV Riley – Edith Clarke Transmission Project. The project is a part of the CREZ in TX.

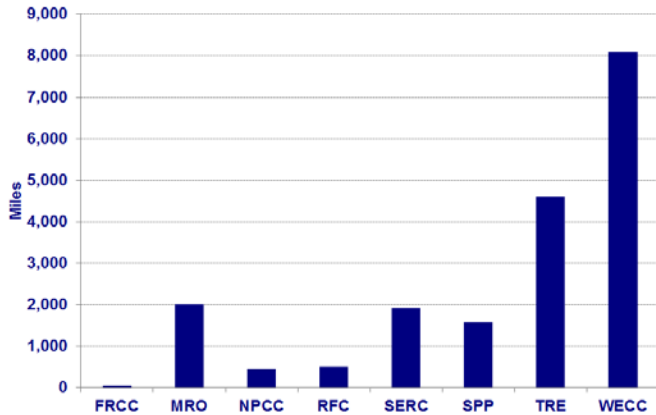
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by July 2015	
	July 2013	July 2012	January – July 2013 Cumulative	January – December 2012 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	93.5	76.8	1,072.8	1,052.3	4,419.7
345	228.1	18.0	768.6	1,086.6	6,706.2	8,775.5
500	0.0	0.0	65.0	187.5	1,935.7	5,964.8
Total U.S.	228.1	111.5	910.4	2,346.9	9,694.2	19,160.0

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

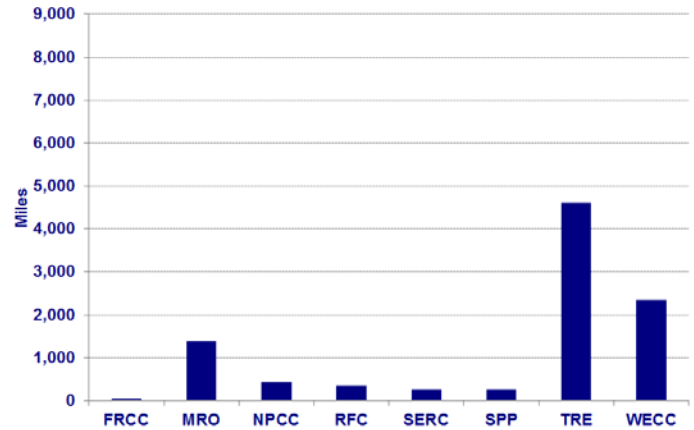


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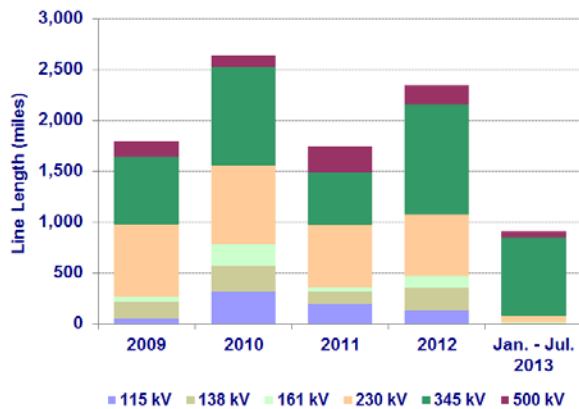
All Transmission Projects with a Proposed In-Service Date by July 2015



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



New Transmission Projects by Voltage



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

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