



Office of Energy Projects Energy Infrastructure Update For February 2013

Natural Gas Highlights

- Creole Trail Pipeline received authorization to construct and operate facilities on its existing pipeline in LA in order to provide bi-directional transportation capacity totaling 1,530 MMcf/d to the Sabine Pass Liquefaction facility.
- Texas Eastern requested authorization to construct and operate its TEAM 2014 Project. This project will provide 600 MMcf/d of new capacity for the delivery of gas to markets located in NY, NJ, OH, MS, and LA.
- Sierrita Gas Pipeline requested authorization to construct and operate a new pipeline and border crossing facilities at the U.S-Mexico border in Pima County, AZ which will provide 200 MMcf/d of gas to Mexico for power generation.
- Sabine Pass Liquefaction and Creole Trail Pipeline commenced the Commission's pre-filing process to expand the liquefaction capabilities at the existing Sabine Pass LNG terminal in Cameron Parish, LA by 1,300 MMcf/d and to construct and operate pipeline facilities which will provide 1,500 MMcf/d of additional capacity to the terminal.
- Columbia commenced the Commission's pre-filing process to construct and operate its East Side Expansion Project. This project will provide 440 MMcf/d of new capacity on its system in PA, NY, NJ, and MD.
- The Commission vacated the authorizations issued to Calhoun LNG and Point Comfort Pipeline to construct and operate a 1,000 MMcf/d import LNG terminal and associated pipeline in Calhoun County, TX.

Natural Gas Activities in February 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	2			216.0	10.2	15,400
Certificated	2			1,545.0	11.0	53,125
Proposed	6			2,895.0	228.8	157,700
Storage						
Placed in Service	1	0.2	0			0
Certificated	1	2.1	765			9,240
Proposed	2	1.0	0			500
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Export)	0	0	0			0
Proposed (Export)	1	0	1,300			0

Source: Staff Database

Natural Gas Activities through February 28, 2013 Through February 29, 2012

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through February 29, 2012	2 0			216 0	10.2 0	15,400 0
Certificated through February 29, 2012	4 4			1,570.6 490.3	11.5 20.3	55,075 9,470
Storage						
Placed in Service through February 29, 2012	1 3	0.2 3.1	0 150			0 15,300
Certificated through February 29, 2012	3 2	7.3 17.2	765 0			9,240 0
LNG (Import & Export)						
Placed in Service through February 29, 2012	0 0	0 0	0 0			0 0
Certificated (Export) through February 29, 2012	0 0	0 0	0 0			0 0

Source: Staff Database



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Hydropower Highlights

- The City of Avenal, California, Utilities Department was issued an order granting exemption from licensing (conduit) for the 0.110 MW Tank 4 Plant Project No. 14463, in King County, CA.
- Duke Energy Carolinas, LLC, was issued an Order Amending License for the Catawba-Wateree Project No. 2232, located on the Catawba River in NC and Catawba and Wateree Rivers in SC. The order approved an increase in capacity from 732.607 MW to 739.182 MW by equipment upgrades.
- Lucid Energy, Inc. and City of Portland Water Bureau, jointly, filed an application for exemption from licensing (conduit) for the 0.045 MW Conduit 3 Hydroelectric Project No. 14498, in Multnomah County, OR.
- Carlsbad Municipal Water District filed an application for exemption from licensing (conduit) for the 0.135 MW Pressure Control Facility at Maerkle Reservoir Hydroelectric Project No. 14501, in San Diego, CA.

Hydropower Activities in February 2013

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
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	2	0.180	0	0	0	0	2	0.180
Issued								
License	0	0	0	0	0	0	0	0
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	1	6.575	0	0	0	0	1	6.575
Conduit Exemption	1	0.110	0	0	0	0	1	0.110
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 February 28, 2013)

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
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	3	0.260	0	0	0	0	3	0.260
Issued								
License	1	0.450	0	0	0	0	1	0.450
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	1	6.575	0	0	0	0	1	6.575
Conduit Exemption	2	0.420	0	0	0	0	2	0.420



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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

- Two large-scale solar farms in Lancaster, California are online: 1) NRG Energy's 66 MW Alpine Solar Project - the electricity generated is sold to Pacific G&E under long-term contracts; and 2) Exelon Corp's 100 MW Antelope Valley Solar Ranch One - the electricity generated is sold to Pacific G&E under long-term contract. Phase 2 with another 130 MW is expected to be completed by year end 2013.
- Tucson Electric Power's 5 MW Prairie Fire Solar in Pima County, AZ is online. Prairie Fire project consists of 17,000 solar panels.
- Canadian Solar Inc and Strata Solar LLC's 6.4 MW Fuquay Farm Solar in Wake County, NC is online. The joint partnership plan to develop a suite of 15 projects in North Carolina.
- Seneca Energy II, LLC's 4.8 MW Ontario Landfill Gas to Energy (LFGTE) phase 4 expansion in Ontario County, NY is online. The project consists of three 1.6 MW Caterpillar Inc Technology generators fired by landfill gas.
- Montauk Energy Holdings LLC's 3.2 MW Tulsa LFGTE facility in Osage County, OK is online. The project consists of two Caterpillar Inc Technology generators fired by landfill gas. The electricity generated is sold to Oklahoma Municipal Power Authority under long-term contract.
- Fortistar's 3.2 MW Charlotte Motor Speedway LFGTE phase 3 expansion in Cabarrus, NC is online. The project consists of two Caterpillar Inc Technology generators fired by landfill gas. The electricity generated is sold to Duke Energy Carolinas.
- New Energy Co. LLC's 3.2 MW Rock Creek Dairy Digester in Twin Falls County, ID is online. The project consists of two Caterpillar Inc Technology generators fired by biomass gas. The electricity generated is sold to Idaho Power under long-term contract.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	February 2013		January – February 2013 Cumulative		January – February 2012 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0	1	808
Natural Gas	0	0	2	170	11	1,028
Nuclear	0	0	0	0	0	0
Oil	0	0	0	0	6	11
Water	0	0	0	0	0	0
Wind	0	0	6	958	20	1,051
Biomass	11	18	25	32	20	56
Geothermal Steam	0	0	0	0	2	16
Solar	6	179	24	424	39	176
Waste Heat	0	0	0	0	0	0
Other	0	0	0	0	0	0
Total	17	197	57	1,584	99	3,145

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	337.19	29.04%
Natural Gas	492.07	42.38%
Nuclear	106.27	9.15%
Oil	41.07	3.54%
Water	99.05	8.53%
Wind	60.10	5.18%
Biomass	15.11	1.30%
Geothermal Steam	3.75	0.32%
Solar	4.68	0.40%
Waste Heat	0.69	0.06%
Other	1.04	0.09%
Total	1,161.03	100.00%

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

Electric Transmission Highlights

- Construction has started on the \$500 million, 150 mile Hampton-Rochester-La Crosse transmission project. The project consists of 161 and 345 kV lines and is expected to be completed in 2015.
- Kansas City Power & Light and the Omaha Public Power District announced plans to build a \$400 million, 190-mile, 345 kV interstate line connecting Sibley, MO to Nebraska City, NE. It is expected to be completed by June 2017.
- PPL Electric Utilities announced plans to invest \$968 million in infrastructure improvements in 2013. The company will invest \$352 million to upgrade its distribution network and \$616 million for transmission projects which includes \$260 million for the 146 mile, 500 kV Susquehanna - Roseland line that is expected to be completed by 2015. The interstate project will connect Berwick, PA, to Roseland, NJ and is expected to cost \$1.2 billion.

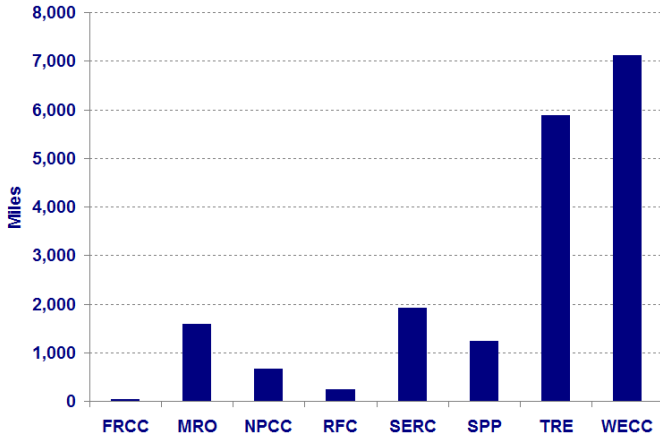
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by February 2015	
	February 2013	February 2012	January – February 2013 Cumulative	January – December 2012 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0	6.0	0	624.1	1,022.3	4,261.2
345	0	271.2	0	823.8	7,453.3	9,563.1
500	0	79.0	0	170.1	1,461.4	4,856.4
Total U.S.	0	356.2	0	1,618.0	9,937.0	18,680.7

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

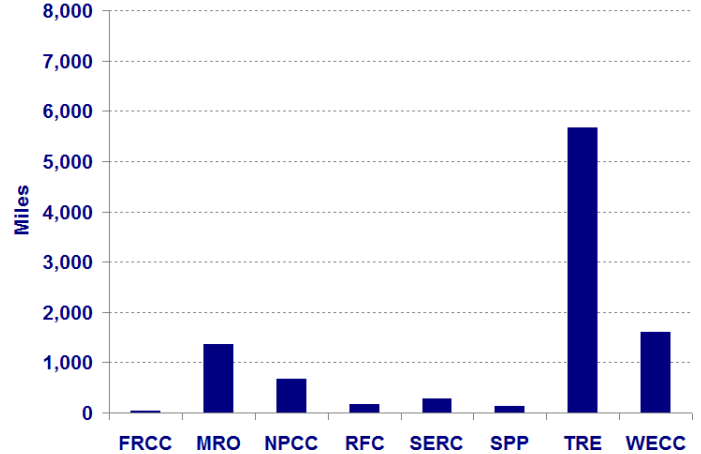


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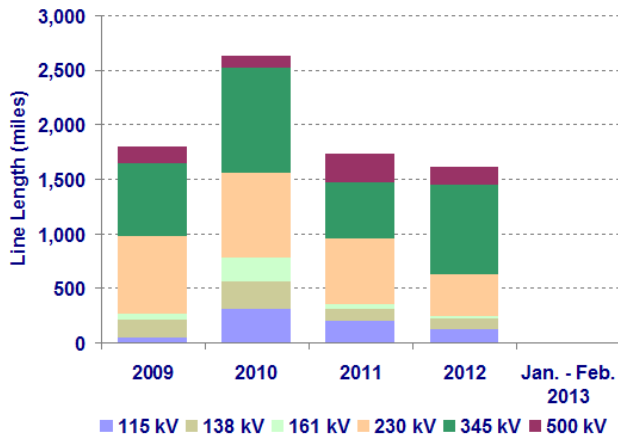
All Transmission Projects with a Proposed In-Service Date by February 2015



Transmission Projects with a High Probability of being completed by February 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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