

Office of Energy Projects

Energy Infrastructure Update

For January 2013

Natural Gas Highlights

- Alliance Pipeline received authorization to construct and operate additional compression facilities to its approved Tioga Lateral Project in ND. The additional facilities will increase the capacity of the Tioga Lateral by 19.9 MMcf/d.
- Transco requests authorization to construct and operate its Rockaway Delivery Lateral Project. This project will provide 647 MMcf/d of firm transportation for shippers to a new delivery point in Queens Co., NY.
- Transco commenced the Commission's pre-filing process for its Leidy Southeast Expansion Project which will provide 469 MMcf/d of firm transportation capacity from Transco's existing Leidy Line in PA to Compressor Station 25 in AL.
- East Tennessee commenced the Commission's pre-filing process for its Kingsport Expansion Project which will provide 61 MMcf/d of firm transportation capacity for Eastman Chemical to serve its chemical plant in Kingsport, TN.
- By order dated January 17, 2013, the Commission dismissed The Gas Company's Section 3 request to construct and operate mobile LNG vaporization/regasification units and storage facilities in HI. The Commission dismissed the request because the project did not constitute an LNG facility as envisioned under Section 3 and does not require any other authorization from the Commission.

Natural Gas Activities in January 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	2			25.6	0.5	1,950
Proposed	3			1,177.0	46.8	92,700
Storage						
Placed in Service	0	0.0	0			0
Certificated	2	5.2	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 January 31, 2013 Through January 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 January 31, 2012	0 0			0 0	0 0	0 0
Certificated through January 31, 2012	2 2			25.6 233.3	0.5 8.6	1,950 9,470
Storage						
Placed in Service through January 31, 2012	0 3	0.0 3.1	0 150			0 15,300
Certificated through January 31, 2012	2 2	5.2 17.2	0 0			0 0
LNG (Import & Export)						
Placed in Service through January 31, 2012	0 0	0 0	0 0			0 0
Certificated (Export) through January 31, 2012	0 0	0 0	0 0			0 0

Source: Staff Database

Office of Energy Projects

Energy Infrastructure Update

For January 2013

Hydropower Highlights

- W.V. Hydro, Inc., placed in service 4.4 MW at the B. Everett Jordan Project No. 11437 in Chatham County, NC.
- Lockhart Power Company placed in service an additional 0.565 MW with a new minimum flow unit at the Lockhart Project No. 2620 in Chester and Union Counties, SC.
- Duke Energy placed in service an additional 0.395 MW with a new minimum flow unit at the Cedar Cliff development of Project No. 2698 in Jackson County, NC.
- Monroe City Corporation placed in service an additional 0.037 MW at the Monroe Cold Springs Project No. 14441 in Sevier County, UT.
- San Gabriel Valley Water Company was issued an order granting exemption from licensing (conduit) for the 0.31 MW Sandhill WTP Project No. 14428, in San Bernardino County, CA.
- Inside Passage Electric Cooperative was issued an original license for the proposed 0.45 MW Gartina Falls Hydropower Project No. 14066. The project will be located on Gartina Creek, near the Town of Hoonah, AK.
- City of Westfield Water Resources Department filed an application for exemption from licensing (conduit) for the 0.08 MW Sacket Filtration Plant Hydroelectric Project No. 14483, located at the city's Sacket Filtration Plant in Hampden County, MA.

Hydropower Activities in January 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	1	0.080	0	0	0	0	1	0.080
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	0	0	0	0	0	0	0	0
Conduit Exemption	1	0.310	0	0	0	0	1	0.310
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

- BP Wind Energy's 470 MW Flat Ridge 2 Wind Farm in Nashville, KS is online. Flat Ridge 2 consists of 294 GE 1.6 MW turbines. Another 130 MW is expected to come online by year end 2013. The electricity generated is sold to Southwestern Electric Power Co., Associated Electric Cooperative Inc, and Arkansas Electric Cooperative Corp. under long-term contracts.
- Duke Energy Renewables' 402 MW Los Vientos I and II in Willacy County, TX are online. Los Vientos I consists of 87 Siemens 2.3 MW turbines; Los Vientos II consists of 84 Mitsubishi Heavy Industries 2.4 MW turbines. The electricity generated is sold to CPS Energy and Austin Energy under long-term contracts.
- Exelon Corp's 82 MW Beebe Community Wind Farm in Gratiot County, MI is online. Beebe Community Wind consists of 34 Nordex 2.4 MW turbines. Another 82 MW is expected to come online by year end 2013. The electricity generated is sold to Consumers Energy Co. under long-term contract.
- Equity Industrial Turbines' 4 MW Gloucester Wind in Gloucester, MA in online. Gloucester Wind consists of a pair of 2 MW turbines. The electricity generated is sold to the City of Gloucester under long-term contract.

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

- Waste Management Inc.'s 4 MW Mahoning LFG Facility in Mahoning County, OH is online. Methane from the landfill is used to fire the Caterpillar Inc Technology generator. The power generated is sold to American Municipal Power Inc. under long-term contract.
- Solar farms in California: 1) Exelon Corp's 115 MW Antelope Valley Solar Project near Lancaster is online. Another 115 MW is expected to come online by year end 2013. The power generated is sold to PG&E under long-term contract. 2) NRG's 107.4 MW California Valley Solar Ranch Units 2 and 3 in San Luis Obispo County are online. Units 3 and 4 with 62.5 MW each, are expected to come online by year end 2013. The power generated is sold to PG&E under long-term contract.
- Duke Energy Renewables' 10 MW Black Mountain Solar Power Project near Kingman, AZ is online. Black Mountain solar consists of 42,000 PV panels. The power generated is sold to UniSource Energy Services under long-term contract.
- Volkswagen Group of America's 10 MW Chattanooga Volkswagen Solar in Chattanooga, TN is online. The solar park consists of 33,600 JA Solar modules. The electricity generated is contracted on-site to Volkswagen Group of America.
- Exelon Corp's 5.7 MW Outback Solar in Lake County, OR is online. The solar park consists of 20,000 PV panels. Another 10 MW is expected to come online by year end 2013. The electricity generated is sold to Portland General Electric under long-term contract.
- Siemens AG's 4.5 MW White Sand Missile Range Solar in Dona Ana County, NM is online. The solar park consists of 15,500 sun-tracking PV panels. The electricity generated is contracted on-site to the U.S. Army.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	January 2013		January 2012	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	1	808
Natural Gas	0	0	7	446
Nuclear	0	0	0	0
Oil	0	0	5	9
Water	0	0	0	0
Wind	6	958	7	276
Biomass	6	6	7	38
Geothermal Steam	0	0	0	0
Solar	16	267	19	117
Waste Heat	0	0	0	0
Other	0	0	0	0
Total	28	1,231	46	1,693

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

Office of Energy Projects

Energy Infrastructure Update

For January 2013

Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	336.76	29.04%
Natural Gas	491.32	42.37%
Nuclear	107.01	9.23%
Oil	41.07	3.54%
Water	98.56	8.50%
Wind	59.98	5.17%
Biomass	15.01	1.29%
Geothermal Steam	3.72	0.32%
Solar	4.44	0.38%
Waste Heat	0.69	0.06%
Other	1.04	0.09%
Total	1,159.59	100.00%

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

Electric Transmission Highlights

- Portland General Electric and Bonneville Power Administration have signed a memorandum of understanding on the 500 kV Cascade Crossing Project. They have agreed to investigate an alternative route that would reduce the total project miles by over 100 miles. The original project would have connected Boardman, OR and Salem, OR. The new route connects Boardman, OR to a new substation, Pine Grove, southwest of Maupin, OR.
- Tri-State Generation and Transmission Association Inc. announced two transmission projects. One, the 230 kV, 120 mile San Luis Valley – Carson project connects San Luis Valley, NM to a new substation west of Taos, NM. It is expected to cost \$123 million. A completion date has not been determined. The second one is the 230 kV, 69 mile Boone – Walsenburg project. It is expected to cost \$45 million and be completed in 2018.
- AECOM Technology Corp has been selected by Transmission Developers to engineer the \$2.2 billion, 333 mile Champlain Hudson Power Express project. The HVDC merchant project extends from the U.S./Canada border to the New York Metropolitan area. It is expected to be completed in the fall of 2017.

Voltage (kV)	Transmission Projects Completed			Proposed Transmission Projects In-Service by January 2015	
	January 2013	January 2012	January – December 2012 Cumulative	High Probability of Completion	All
	Line Length (miles)				
≤230	0	19.0	622.1	935.8	3,846.7
345	0	92.6	823.8	6,894.1	8,930.1
500	0	0.0	170.1	758.4	3,388.4
Total U.S.	0	111.6	1,616.0	8,588.3	16,165.2

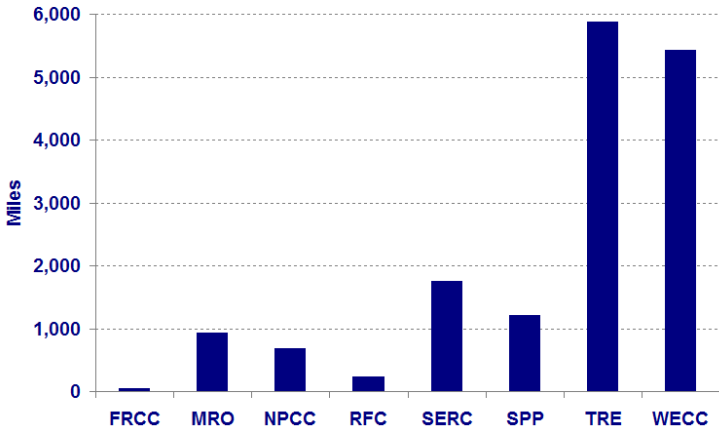
Source: Data derived from Staff Database

Office of Energy Projects

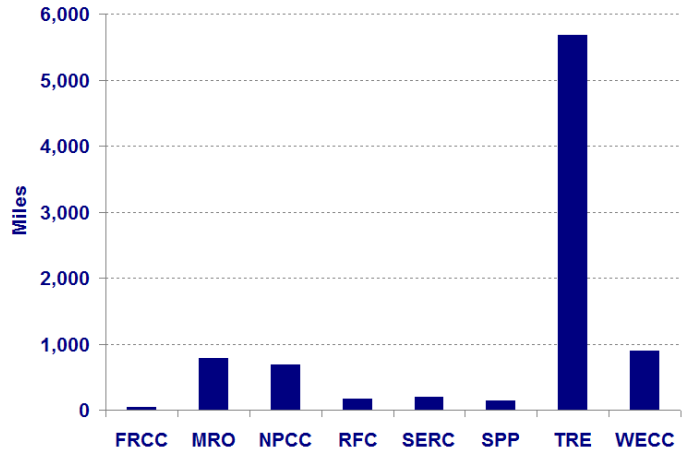
Energy Infrastructure Update

For January 2013

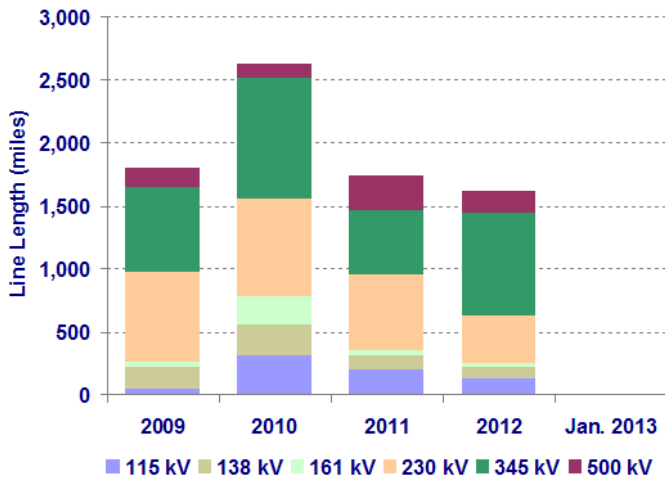
All Transmission Projects with a Proposed In-Service Date by January 2015



Transmission Projects with a High Probability of being completed by January 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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