

Office of Energy Projects

Energy Infrastructure Update

For January 2011

Natural Gas Highlights

- Fayetteville Express Pipeline placed into service the remaining five compressor units at the Russell Compressor Station in White County, Arkansas. This will provide 650 MMcf/d of capacity to the Fayetteville Express Pipeline.
- Central NY received authorization to construct and operate facilities to increase throughput capacity by 288 MMcf/d on its Stagecoach Storage Facility in Tioga County, New York, and Bradford County, Pennsylvania.
- Cameron LNG received Section 3 authorization to export 1.8 Bcf/d of previously imported LNG from its LNG terminal in Cameron Parish, Louisiana.
- Texas Eastern filed an application to construct and operate its TEAM 2012 Project which will provide 190 MMcf/d of capacity for transportation of Rocky Mountain and Marcellus Shale gas to Northeast markets.
- Equitrans filed an application to construct and operate its Sunrise Project which will provide 313.6 MMcf/d of capacity for transportation of Marcellus Shale gas to the Northeast and Mid-Atlantic states.
- Sabine Pass LNG filed a Section 3 application to construct and operate liquefaction and export facilities (2.6 Bcf/d of deliverability) at its existing LNG terminal in Cameron Parish, Louisiana.

Natural Gas Activities in January 2011

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	2			650.0	0.0	102,430
Certificated	1			288.0	0.0	28,700
Proposed	3			503.6	72.6	34,925
Storage						
Placed in Service	0	0	0			0
Certificated	0	0	0			0
Proposed	0	0	0			0
LNG						
Placed in Service	0	0	0			0
Certificated	0	0	0			0
Proposed	1	0	2,600			0

Source: Staff Database

Natural Gas Activities through January 31, 2011

Through January 31, 2010

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, 2010	2 2			650 2,431	0.0 1.1	102,430 39,990
Certificated through January 31, 2010	1 3			288 1,087.5	0.0 3.4	28,700 49,471
Storage						
Placed in Service through January 31, 2010	0 0	0.0 0	0 0			0 0
Certificated through January 31, 2010	0 1	0.0 15.0	0.0 600			0 9,500
LNG						
Placed in Service through January 31, 2010	0 0	0 0	0 0			0 0
Certificated through January 31, 2010	0 0	0 0	0 0			0 0

Source: Staff Database

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Hydropower Highlights

Hydropower Activities in January 2011

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	1	2.550	0	0	0	0	1	2.550
Conduit Exemption	1	0.075	0	0	0	0	1	0.075
Issued								
License	0	0	0	0	0	0	0	0
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	2	6.050	0	0	0	0	2	6.050
Conduit Exemption	1	0.200	0	0	0	0	1	0.200
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

Electric Generation Highlights

- Wisconsin Electric Power Company's 615-MW Unit 2 Oak Creek Power Plant Expansion came online on January 12, 2011. The Expansion broke ground in 2005 and comprises of two coal-fired steam turbines and related civil works. Unit 1 went into operation on February 2, 2010.
- NorthWestern Energy's 150-MW natural gas-fired Mill Creek Generating Station near Anaconda, Montana began commercial operation on January 1, 2011. The plant includes three 50-MW units. Mill Creek will primarily be a "regulating reserve" plant, which provides capacity necessary to maintain transmission system reliability and balance on a moment-by-moment basis as demand and resources fluctuates. A fourth unit may be added in the future depending on need for regulation service in Montana.
- Beacon Power Corporation's Rensselaer County Flywheel Project in Stephentown, New York came online on January 24, 2011. The 20-MW plant is the first grid-scale flywheel energy storage system. It will provide about 10% of New York state's daily demand for regulation service with zero fuel consumption or CO2 emissions.
- Dry Lake Wind Power Project, Arizona's first modern commercial-scale wind farm came online on January 3, 2011. The project's 30 Suzlon wind turbines with 60-MW total capacity, provides energy for Salt River Project.

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New Generation In-Service (New Build and Expansion)

Primary Fuel Type	January 2011		January 2010	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	1	615	0	0
Natural Gas	3	150	5	269
Nuclear	0	0	0	0
Oil	0	0	0	0
Water	4	0.6	1	0.2
Wind	2	105	4	68
Biomass	16	20	20	32
Geothermal Steam	0	0	0	0
Solar	8	40	2	3
Waste Heat	0	0	0	0
Other	5	28	0	0
Total	39	958	32	372

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

Total Installed Operating Generation Capacity

Primary Fuel Type	Installed Capacity (GW)	% of Total Capacity
Coal	344.99	30.40%
Natural Gas	461.71	40.69%
Nuclear	108.33	9.55%
Oil	61.13	5.39%
Water	99.12	8.74%
Wind	39.73	3.50%
Biomass	13.38	1.18%
Geothermal Steam	3.35	0.30%
Solar	1.18	0.10%
Waste Heat	0.82	0.07%
Other	0.98	0.09%
Total	1,134.72	100.00%

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

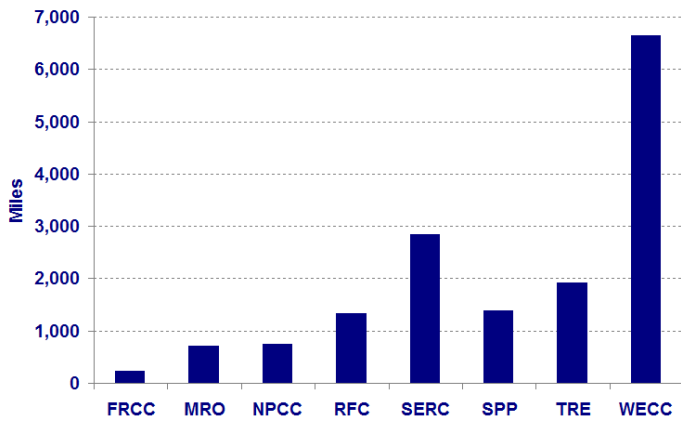
Electric Transmission Highlights

- On January 5, Xcel Energy Inc., Dairyland Power Cooperative and WPPI Energy filed an application with the Public Service Commission of Wisconsin for the Hampton-Rochester-La Crosse 345 kV Transmission project. The 125 mile Inter-State Project will connect Hampton, MN to LaCrosse, WI and is scheduled to be completed by December 2015 with an estimated cost of \$224.4 million. It is a part of the CapX2020 initiative.
- In January, the U.S. Bureau of Land Management (BLM) started preparing an environmental impact statement (EIS) for the 725-mile, 600-kV TransWest Express transmission line. The high-voltage, direct current project will begin in south-central Wyoming, extend through northwestern Colorado and central Utah, turn southwest into southern Nevada, and end near Las Vegas, NV. The developers for the project are proposing to utilize public lands for more than half of the proposed route; as a result, the U.S. Forest Service and the U.S. Bureau of Reclamation will be involved in preparing the EIS.

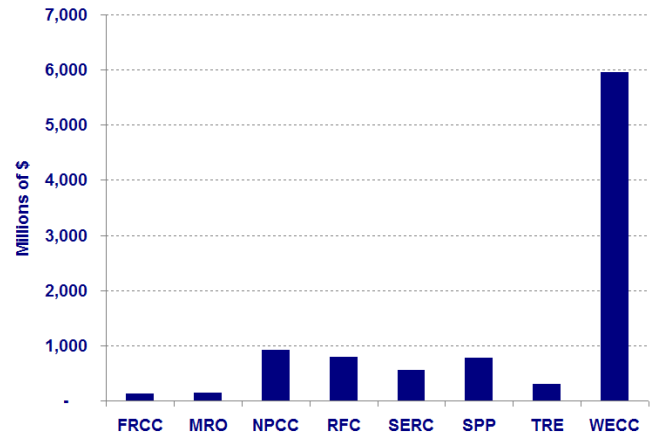
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Voltage (kV)	Transmission Projects Completed		Proposed Transmission Projects
	January 2011	January 2010	In-Service by January 2013
	Line Length (miles)		
≤230	64.1	65.2	6,868.0
345	0	52.8	4,236.9
500	0	0	4,699.5
765	0	0	0
Total U.S.	64.1	118.0	15,804.4

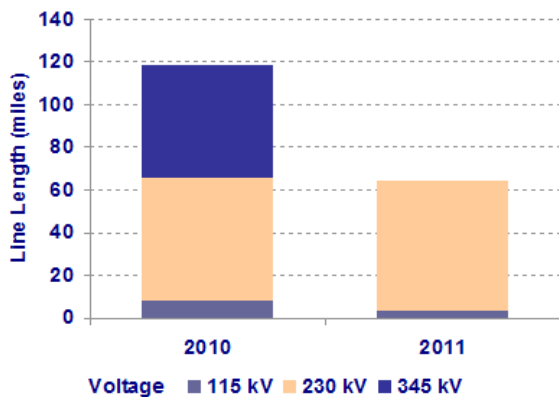
Transmission Projects with a Proposed In-Service Date by January 2013



Projected Investment Cost of Transmission Projects with a Proposed In-Service Date by January 2013



Transmission Projects Completed in January of 2010 and 2011



Source: Data derived from Staff Database and U.S. Electric Transmission Projects ©2009 The C-Three Group, LLC
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