



Office of Energy Projects Energy Infrastructure Update For November 2013

Natural Gas Highlights

- Gulf South Pipeline and Petal Gas received authorization to construct and operate the Southeast Market Expansion Project which will provide 510 MMcf/d of capacity for the transportation of gas from TX and LA to Southeast markets.
- Transco received authorization to construct and operate its Virginia Southside Expansion Project. This project will provide 270 MMcf/d of transportation capacity for two shippers to serve natural gas requirements in VA and NC.
- NET Mexico received authorization to construct and operate border crossing facilities for the export of 2,100 MMcf/d of natural gas to Mexico at the international boundary between the U.S. and Mexico in Starr County, TX.
- Transco requested authorization to construct and operate its Woodbridge Delivery Lateral Project which will provide 264 MMcf/d of capacity to CPV Shore's proposed 725 MW electric generating station in Woodbridge, NJ.
- Columbia requested authorization to construct and operate its East Side Expansion Project which will provide 312 MMcf/d of firm capacity and bi-directional flow in PA, NJ, NY and MD for shippers serving the Northeast markets.
- Transco commenced the Commission's pre-filing process to construct and operate the Hillabee Expansion Project. This project will provide 1,132 MMcf/d of capacity on its system in AL for delivery to Sabal Trail in Alexander City, AL.

Natural Gas Activities in November 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	2			15.0	11.9	4,700
Certificated	6			3,040.7	196.9	59,595
Proposed	5			1,732.7	95.0	141,004
Storage						
Placed in Service	0	0.0	0			0
Certificated	0	0.0	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 November 30, 2013 Through November 30, 2012

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through November 30, 2012	27 23			4,488.2 3,320.5	226.5 304.3	155,875 224,920
Certificated through November 30, 2012	29 21			7,049.8 4,541.8	342.2 207.5	185,086 133,660
Storage						
Placed in Service through November 30, 2012	15 11	55.3 72.7	2,882 1,345			56,620 94,305
Certificated through November 30, 2012	12 9	33.3 76.8	766 2,940			9,240 85,755
LNG (Import & Export)						
Placed in Service through November 30, 2012	0 0	0 0	0 0			0 0
Certificated (Export) through November 30, 2012	0 1	0 0	0 2,600			0 0

Source: Staff Database



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Hydropower Highlights (nonfederal)

- PUD No. 2 of Grant County placed in service an additional 4.1 MW at the Wanapum Development Project No. 2114 in Grant County, WA. Since 2005, the installed capacity of Wanapum has increased by 41 MW.
- Three Valleys Municipal Water District was issued an Order Amending Exemption (Conduit) for the 0.535 MW Miramar Plant Station Project No. 10263. The order authorized the Exemptee to add two generating units, increasing the installed capacity from 0.535 MW to 0.827 MW. The project utilizes the existing Miramar Water Treatment Plant, near the City of Claremont, Los Angeles County, CA.
- Alaska Village Electric Cooperative, Inc. filed an original license application for the proposed 0.525 MW Old Harbor Hydroelectric Project No. 13272. The project would be located on the East Fork of Mountain Creek, near the town of Old Harbor, in Kodiak Island Borough, AK.
- Free Flow Power Missouri 2, LLC filed an original license application for the proposed 14.6 MW Sardis Lake Hydroelectric Project No. 13701. The project would be located at the U.S. Army Corps of Engineers' existing Sardis Lake dam, on the Little Tallahatchie River, in Panola County, MS.
- Free Flow Power Missouri 2, LLC filed an original license application for the proposed 9.0 MW Grenada Lake Hydroelectric Project No. 13702. The project would be located at the U.S. Army Corps of Engineers' existing Grenada Lake dam, on the Yalobusha River, in Grenada County, MS.
- Free Flow Power Missouri 2, LLC filed an original license application for the proposed 4.6 MW Enid Lake Hydroelectric Project No. 13703. The project would be located at the U.S. Army Corps of Engineers' existing Enid Lake dam, on the Yocona River, in Yalobusha County, MS.
- Free Flow Power Missouri 2, LLC filed an original license application for the proposed 5.1 MW Arkabutla Lake Hydroelectric Project No. 13704. The project would be located at the U.S. Army Corps of Engineers' existing Arkabutla Lake dam, on the Coldwater River, in Tate and DeSoto counties, MS.
- The Twin Lakes Canal Company filed an original license application for the proposed 10.0 MW Bear River Narrows Hydroelectric Project No. 12486. The project would be located on the Bear River, near the city of Preston, in Franklin County, ID.

Hydropower Activities in November 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	43.825	0	0	0	0	6	43.825
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
Issued								
License	0	0	0	0	0	0	0	0
10-MW Exemption*	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	1	0.292	0	0	0	0	1	0.292
Placed in Service								
License	0	0	0	0	0	0	0	0
10-MW Exemption*	0	0	0	0	0	0	0	0
Capacity Amendment	1	4.100	0	0	0	0	1	4.100
Conduit Exemption	0	0	0	0	0	0	0	0

*The Hydropower Regulatory Efficiency Act enacted August 9, 2013, increased the maximum size for small capacity hydropower exemptions from 5 MW to 10 MW.

Source: Staff Database



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Hydropower Activities Year to Date (through November 30, 2013)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	15	140.972	0	0	0	0	15	140.972
10-MW Exemption*	1	0.040	0	0	0	0	1	0.040
Capacity Amendment	1	0.170	0	0	0	0	1	0.170
Conduit Exemption	5	0.852	0	0	0	0	5	0.852
Issued								
License	6	19.060	0	0	0	0	6	19.060
10-MW Exemption*	4	1.033	0	0	0	0	4	1.033
Capacity Amendment	4	10.575	0	0	0	0	4	10.575
Conduit Exemption	6	0.972	0	0	0	0	6	0.972
Placed in Service								
License	1	4.400	0	0	0	0	1	4.400
10-MW Exemption*	0	0	0	0	0	0	0	0
Capacity Amendment	3	5.06	0	0	0	0	3	5.06
Conduit Exemption	1	0.037	0	0	0	0	1	0.037

*The Hydropower Regulatory Efficiency Act enacted August 9, 2013, increased the maximum size for small capacity hydropower exemptions from 5 MW to 10 MW.

Source: Staff Database

Electric Generation Highlights

- Enel Green Power's 25 MW Cove Fort Geothermal expansion project in Beaver County, UT is online. The power generated is sold to Rocky Mountain Power under long-term contract.
- NextEra Energy Inc's 75 MW Steele Flat wind project in Gage County, NE is online. The power generated is sold to Nebraska Public Power District and Becton Dickerson under long-term contract.
- New Centennial Power LLC's 6 MW Huerfano River Wind Farm in Huerfano County, CO is online. The power generated is sold to San Isabel Electric Association under long-term contract.
- LS Power Group's 33 MW Arlington Valley Solar Energy phase 4 expansion project in Maricopa County, AZ is online. The power generated is sold to San Diego G&E under long-term contract.
- Tenaska Inc's 84 MW Imperial Energy Solar Center phase 2 expansion project in Imperial County, CA is online. The power generated is sold to San Diego G&E under long-term contract.
- Apple Inc's 20 MW Apple Data Center phase 4 solar expansion project in Catawba County, NC is online. The power generated is sold to Duke Energy Carolinas under long-term contract.
- Trinity Solar's 12 MW McGuire Dix Solar project in Burlington County, NJ is online. The power generated is sold to Jersey Central Power & Light under long-term contract.
- Dominion Resources Inc.'s 5 MW Somers Solar Center project in Tolland County, CT is online.
- 2 solar projects in Valencia County, NM are online: Public Service Co. of NM's 8 MW Manzano Solar Energy Center; and the 2 MW Los Luna Solar Energy Center.
- Washington Gas Service Energy Inc's two solar projects in MA are online: 4 MW Marshfield Solar in Plymouth County; and 1 MW Maynard Solar in Middlesex County.
- Outward Resource Inc's two solar projects in NC are online: 2 MW Betty Wells Generator A in Henderson County; and 2 MW Carson Farms Generator A in Buncombe County.
- EDF Renewable Energy Service's two biomass plants in SC are online: 21.3 MW Dorchester Biomass Plant in Dorchester County; and Allendale Biomass Plant in Allendale County.
- Weyerhaeuser Co.'s 50 MW Rothchild WI biomass phase 4 expansion project in Marathon County, WI is online. The power generated is sold to Wisconsin Energy Corp under long-term contract.



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New Generation In-Service (New Build and Expansion)

Primary Fuel Type	November 2013		January – November 2013 Cumulative		January – November 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	4	3,242
Natural Gas	0	0	63	6,585	103	6,793
Nuclear	0	0	0	0	1	0
Oil	0	0	12	36	43	83
Water	3	127	17	244	17	161
Wind	4	81	16	1,110	131	7,808
Biomass	9	91	85	508	148	565
Geothermal Steam	1	25	2	39	13	170
Solar	16	307	233	2,985	294	1,584
Waste Heat	0	0	2	76	1	3
Other	0	0	5	0	4	0
Total	33	631	437	13,126	759	20,408

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

Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	331.18	28.58%
Natural Gas	486.53	41.99%
Nuclear	107.32	9.26%
Oil	46.97	4.05%
Water	97.75	8.44%
Wind	60.27	5.20%
Biomass	15.46	1.33%
Geothermal Steam	3.82	0.33%
Solar	7.48	0.65%
Waste Heat	0.13	0.01%
Other	1.80	0.16%
Total	1,158.70	100.00%

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



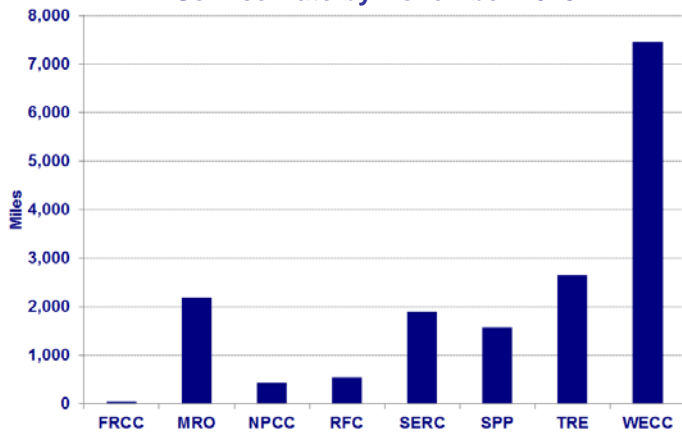
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Electric Transmission Highlights

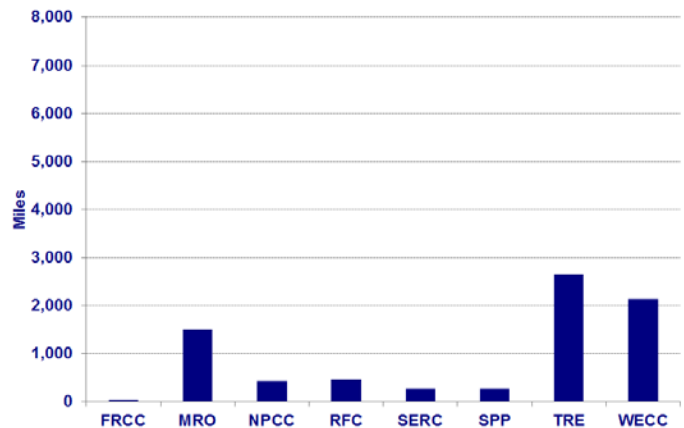
- The U.S. Bureau of Land Management's Wyoming Office approved the majority of the 1,000 mile Gateway West Transmission Line Project. The interstate project is a joint venture of Idaho Power Co. and PacifiCorp. It consists of 230 kV and 500 kV transmission lines that cross ID and WY. Construction is expected to be started in 2016 and completed in 2023.
- The Kansas Corporation Commission has approved the Kansas portion of Clean Line Energy Partners' Grain Belt Express Line Project. The \$2 billion merchant interstate project crosses the states of KS, MO, IN and IL. It is expected to be completed in 2018.

Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by November 2015	
	November 2013	November 2012	January – November 2013 Cumulative	January – December 2012 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	42.0	138.1	1,072.8	1,156.0	4,370.6
345	0.0	31.0	2,230.6	1,112.3	4,833.5	6,751.8
500	0.0	0.0	176.0	187.5	1,742.7	5,658.8
Total U.S.	0.0	73.0	2,544.7	2,372.6	7,732.2	16,781.2

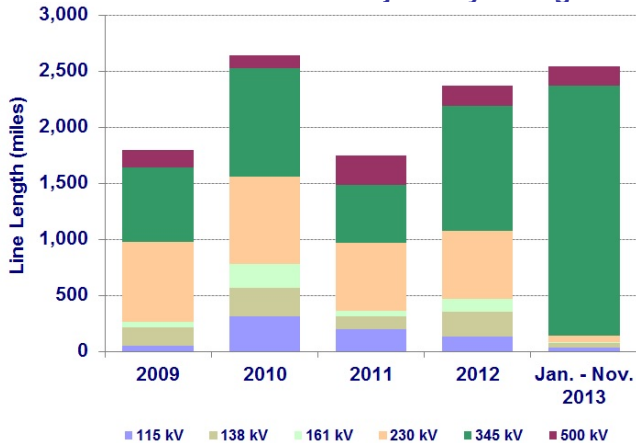
All Transmission Projects with a Proposed In-Service Date by November 2015



Transmission Projects with a High Probability of being completed by November 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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