



## Office of Energy Projects Energy Infrastructure Update For December 2013

### Natural Gas Highlights

- DCP Midstream received authorization to construct and operate its Lucerne Residue Line Project which will provide 230 MMcf/d of capacity from a proposed gas processing facility to CIG in Weld County, CO.
- Petal Gas Storage received authorization to increase the working gas capacity in the Petal Salt Dome's Cavern 12A facility in Forrest County, MS by 0.45 Bcf.
- Columbia received authorization to construct and operate its Smithfield III Expansion Project. This project will provide 444 MMcf/d of transportation capacity on its system from the Appalachian basin in PA and WV to Southwest markets.
- Tres Palacios Gas Storage requested authorization to abandon 22.9 Bcf of working gas storage capacity in its salt cavern gas storage facility located in Matagorda, Colorado, and Wharton Counties, TX.
- UGI Penn received a limited jurisdictional blanket certificate to transport gas on behalf of local producers in PA to the interstate pipeline systems of Tennessee, Transco, and/or Columbia for consumption outside of PA.
- Bakken Hunter requested authorization to construct and operate a border crossing facility between the U.S. and Canada in Divide County, ND. These facilities will provide 5 MMcf/d of capacity for the import of gas to the U.S.

### Natural Gas Activities in December 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
<b>Pipeline</b>						
Placed in Service	0			0.0	0.0	0
Certificated	2			674.0	7.6	25,000
Proposed	1			5.0	0.01	0
<b>Storage</b>						
Placed in Service	0	0.0	0			0
Certificated	1	0.5	0			0
Proposed	1	-22.9	0			0
<b>LNG (Import &amp; Export)</b>						
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 December 31, 2013 Through December 31, 2012

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
<b>Pipeline</b>						
Placed in Service through December 31, 2012	27 27			4,488.2 4,106.5	226.5 307.4	155,875 242,680
Certificated through December 31, 2012	31 24			7,723.8 4,768.6	349.8 210.6	210,086 155,390
<b>Storage</b>						
Placed in Service through December 31, 2012	15 11	55.3 72.7	2,882 1,345			56,620 94,305
Certificated through December 31, 2012	13 10	33.8 79.3	766 3,050			9,240 85,755
<b>LNG (Import &amp; Export)</b>						
Placed in Service through December 31, 2012	0 0	0 0	0 0			0 0
Certificated (Export) through December 31, 2012	0 1	0 0	0 2,200			0 0

Source: Staff Database



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### Hydropower Highlights (nonfederal)

- Enduring Hydro, LLC placed in service the 6.0 MW Mahoning Creek Hydroelectric Project No. 12555. The project is located at Mahoning Creek Dam, a Corps of Engineers Flood Control Dam in Armstrong County, PA.

#### Hydropower Activities in December 2013

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
<b>Filed</b>								
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	0	0	0	0	0	0	0	0
<b>Issued</b>								
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	0	0	0	0	0	0	0	0
<b>Placed in Service</b>								
License	1	6.000	0	0	0	0	1	6.000
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

\*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

#### Hydropower Activities Year to Date (through December 31, 2013)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
<b>Filed</b>								
License	16	141.012	0	0	0	0	16	141.012
10-MW Exemption*	0	0	0	0	0	0	0	0
Capacity Amendment	1	0.170	0	0	0	0	1	0.170
Conduit Exemption	5	0.852	0	0	0	0	5	0.852
<b>Issued</b>								
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
<b>Placed in Service</b>								
License	4	94.738	0	0	0	0	4	94.738
10-MW Exemption*	1	0.850	0	0	0	0	1	0.850
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



## Office of Energy Projects Energy Infrastructure Update *For December 2013*

### Electric Generation Highlights

- Duke Energy Progress's 625 MW natural gas-fired L.V. Sutton expansion project in New Hanover County, NC is online. This project replaced three retired coal-fired units with a total of 575 MW.
- Basin Electric's 42 MW natural gas-fired Lonesome Creek Station Phase 1 project in Mckenzie County, ND is online.
- Dominion Resources Inc.'s 15 MW natural gas-fired Bridgeport Fuel Cell Park in Fairfield County, CT is online. The project consists of six 2.5 MW units. The power generated is sold to Connecticut Light & Power under long-term contract.
- Ormat Technologies Inc's 16 MW Don A. Campbell Geothermal in Mineral County, NV is online. The power generated is sold to Burbank Water & Power and Los Angeles Department of Water and Power under long-term contracts.
- Geoelectic Power Co. of NM LLC's 4 MW Lighting Dock Geothermal expansion project in Hidalgo County, NM is online. The power generated is sold to PS Co. of NM under long-term contract.
- Sol Orchard's 20 MW Sol Orchard Imperial Solution Solar Project in Imperial County, CA is online. The power generated is sold to Imperial Irrigation District under long-term contract.
- The following eight solar projects in San Bernardino County, CA are online: 1) Southern California Edison Co.'s 5.5 MW SPVP 048 Solar project; 2) Belectric Inc's 1.5 MW Solar Power Generating Station 1, 1.5 MW Navajo solar Power Generating Station 1, 1.5 MW Otoe Solar Power Generating Station, and 1.7 MW Powhatan Solar Power Generating Station; 3) Exelon Corp's 1 MW SCE Oltmans at Champagne and 1.5 MW SCE Oltmans at Jurupa; and 4) Capital Dynamic's 1 MW Sunlight Partners 3115 Solar.
- Public Service Co. of NM's 7.5 MW Tularosa Solar Energy Center in Otero County, NM is online.
- Dominion Resources Inc's 7.7 MW Azalea Solar Facility in Washington County, GA is online. The power generated is sold to Cobb Electric Membership Corp. under long-term contract.
- Integrys Energy Group Inc's 3 MW Integrys MA Solar in Worcester County, MA is online.
- Baywa r.e. Brahms LLC's 20 MW Brahms Wind in Curry County, NM is online. The power generated is sold to Western Farmer Electric Cooperative and Farmers Electric Cooperative Corp. under long-term contracts.
- Cate Street Capital LLC's 75 MW wood-fired Burgess BioPower project in Coos County, NH is online. The power generated is sold to Public Service Co. of New Hampshire under long-term contract.
- Plainfield Renewable Energy Group's 43 MW wood-fired Plainfield Renewable Energy Project in Windham County, CT is online. The power generated is sold to Connecticut Light and Power under long-term contract.
- Starwood Capital Group Global's 100 MW wood waste solids-fired Gainesville Renewable Energy in Alachua, FL is online. The power generated is sold to Gainesville Regional Utilities under long-term contract.
- Nippon Paper Industries Co. Ltd's 22 MW wood waste solids-fired NPI USA cogeneration Project in Clallam County, WA is online.
- Western Evce LLC's 12.5 MW wood waste solids-fired Gypsum Biomass project in Eagle County, CO is online. The power generated is used on-site and sold to Holy Cross Energy under long-term contract.
- Fortistar's 5 MW Prince William County Landfill project in Prince William County, VA is online. The power generated is sold to Northern Virginia Electric Cooperative under long-term contract.
- William Howard Brinker's 2 MW landfill gas-fired Onslow Power Producer project in Onslow County, NC is online. The power generated is used on-site and sold to Progress Energy Carolinas under long-term contract.
- Ameresco Inc's 2 MW landfill gas-fired Central Landfill project in Kent County, DE is online. The power generated is used on-site and sold to Constellation Energy Inc. under long-term contract.
- Minnesota Municipal Power Agency's 8 MW biomass gas-fired Hometown BioEnergy project in Le Sueur County, MN is online.



## Office of Energy Projects Energy Infrastructure Update For December 2013

### New Generation In-Service (New Build and Expansion)

Primary Fuel Type	December 2013		January – December 2013 Cumulative		January – December 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	9	4,760
Natural Gas	14	685	81	7,285	121	9,331
Nuclear	0	0	0	0	1	0
Oil	4	2	14	34	46	87
Water	5	143	22	387	20	288
Wind	5	445	22	1,559	207	12,305
Biomass	16	276	109	794	155	575
Geothermal Steam	2	20	7	89	15	181
Solar	63	519	318	3,897	358	1,856
Waste Heat	0	0	2	77	1	3
Other	0	0	6	0	7	0
<b>Total</b>	<b>109</b>	<b>2,090</b>	<b>583</b>	<b>15,664</b>	<b>940</b>	<b>29,386</b>

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	485.63	41.90%
Nuclear	107.32	9.26%
Oil	46.87	4.04%
Water	97.89	8.45%
Wind	60.60	5.23%
Biomass	15.80	1.36%
Geothermal Steam	3.84	0.33%
Solar	7.91	0.68%
Waste Heat	1.13	0.10%
Other	0.80	0.07%
<b>Total</b>	<b>1,158.96</b>	<b>100.00%</b>

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



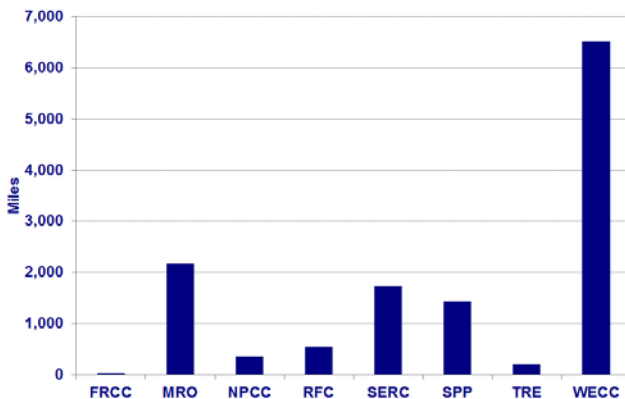
# Office of Energy Projects Energy Infrastructure Update *For December 2013*

## Electric Transmission Highlights

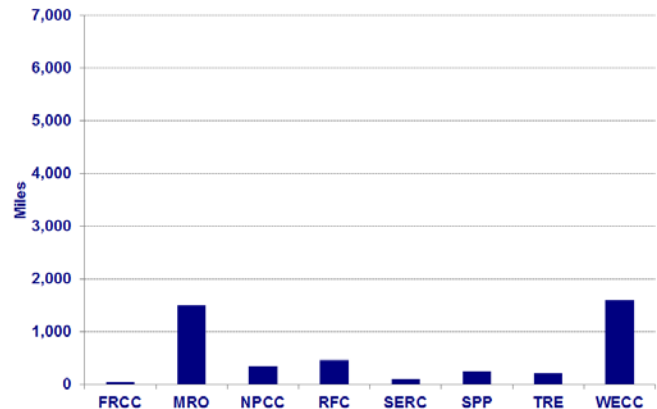
- NV Energy Inc. and Great Basin Transmission South completed the 236 mile, 500 kV One Nevada Transmission Line. The \$620 million project connects Harry Allen to Robinson Summit in NV.
- AEP Electric Transmission Texas has completed the 88.4 mile, 345 kV Edith Clark – Cottonwood Transmission Project. The \$175.4 million project is a part of the Competitive Renewable Energy Zone initiative in TX.
- Valley Electric Association Inc. has completed the 14 mile, 138 kV Vista – Charleston Transmission Project in NV.

Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by December 2015	
	December 2013	December 2012	January – December 2013 Cumulative	January – December 2012 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	14.0	294.1	319.4	1,074.8	798.9	3,797.4
345	88.4	426.5	2,527.5	1,112.3	2,327.4	4,099.7
500	236.0	0.0	448.0	187.5	1,377.7	5,083.8
<b>Total U.S.</b>	<b>338.4</b>	<b>720.6</b>	<b>3,294.9</b>	<b>2,374.6</b>	<b>4,504.0</b>	<b>12,980.9</b>

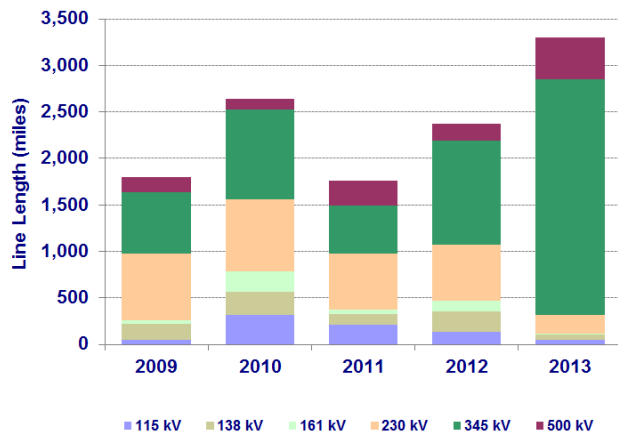
**All Transmission Projects with a Proposed In-Service Date by December 2015**



**Transmission Projects with a High Probability of being completed by December 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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