



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

### Natural Gas Highlights

- Tennessee placed into service its MPP Project which will provide 240 MMcf/d of additional capacity in PA for the transportation of Marcellus Shale gas to Tennessee's market areas.
- Texas Eastern and Algonquin placed into service a majority of the New Jersey-New York Expansion Project. This project will provide 800 MMcf/d of firm transportation capacity into the NJ and NY market areas.
- Tennessee placed into service its Northeast Upgrade Project which will provide increased transportation capacity for two shippers on Tennessee's existing 300 Line System by 636 MMcf/d in PA and NJ.
- Millennium received authorization to construct and operate its Hancock Compressor Project in Delaware County, NY. This project will provide 222.5 MMcf/d of firm transportation capacity on the Millennium system.
- Algonquin commenced the Commission's pre-filing process to construct and operate the Salem Lateral Project. This project will provide 115 MMcf/d of firm capacity to Footprint Power's Salem Harbor Station facility in Salem, MA.
- Sabal Trail and Florida Southeast commenced the Commission's pre-filing process to construct and operate the Sabal Trail and Florida Southeast Connection Projects which will provide 1,100 MMcf/d of capacity from AL to Florida Southeast in FL, and 600 MMcf/d of capacity from Florida Southeast to the Martin Clean Energy Center in FL.

#### Natural Gas Activities in October 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	8			2,446.4	89.9	67,035
Certificated	2			272.5	0.1	15,900
Proposed	6			2,169.0	647.3	213,900
<b>Storage</b>						
Placed in Service	1	8.0	0			0
Certificated	0	0.0	0			0
Proposed	1	0.4	0			0
<b>LNG (Import &amp; Export)</b>						
Placed in Service	0	0	0			0
Certificated (Export)	0	0	0			0
Proposed (Export)	1	0	560			0

Source: Staff Database

#### Natural Gas Activities through October 31, 2013 Through October 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 October 31, 2012	25 19			4,473.1 2,763.0	214.6 240.0	151,175 163,260
Certificated through October 31, 2012	23 20			4,009.1 4,291.8	145.3 195.0	125,491 92,660
<b>Storage</b>						
Placed in Service through October 31, 2012	15 11	55.3 72.7	2,882 1,345			56,620 94,305
Certificated through October 31, 2012	12 9	33.3 76.8	766 2,940			9,240 85,755
<b>LNG (Import &amp; Export)</b>						
Placed in Service through October 31, 2012	0 0	0 0	0 0			0 0
Certificated (Export) through October 31, 2012	0 1	0 0	0 2,600			0 0

Source: Staff Database



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

### Hydropower Highlights (nonfederal)

- Pepperell Hydro Company, LLC (Pepperell) filed an original license application for the existing, unlicensed Pepperell Hydroelectric Project No. 12721. Pepperell proposes to increase the capacity of two existing turbine-generating units and install a new minimum flow turbine-generating unit to increase the total capacity of the project from 1.920 MW to 2.207 MW. The project is located on the Nashua River in the town of Pepperell, Middlesex County, MA.
- Boyce Monroe Hydro, LLC filed a conduit exemption application for its proposed Monroe Drop Hydroelectric Project No. 14430, with a total installed capacity of 0.300 MW. The project would be located in Jefferson County, OR.

#### Hydropower Activities in October 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	1	0.287	0	0	0	0	1	0.287
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	1	0.300	0	0	0	0	1	0.300
<b>Issued</b>								
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
<b>Placed in Service</b>								
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 October 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	9	97.147	0	0	0	0	9	97.147
5-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
<b>Issued</b>								
License	6	19.060	0	0	0	0	6	19.060
5-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	5	0.680	0	0	0	0	5	0.680
<b>Placed in Service</b>								
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



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

### Electric Generation Highlights

- Abengoa SA's 280 MW Solana Generating Station project in Maricopa County, AZ is on line. The Solana Generating Station combines concentrated solar power (CSP) technology with a thermal storage system to deliver renewable power up to six hours after the sun goes down. The power generated is sold to Arizona Public Service Company under long-term contract.
- Southern Company's 139 MW Campo Verde Solar project in Imperial County, CA is online. The power generated is delivered via Sunrise Powerlink and sold to San Diego Gas & Electric under long-term contract.
- NRG Energy's 36 MW California Valley Solar Ranch Phase 4 project in San Luis Obispo County, CA is online. With this latest phase completed, California Valley Solar Ranch has a total of 249 MW capacity. The power generated is sold to PG&E under long-term contract.
- Southern Company's 30 MW Spectrum Solar project in Clark County, NV is online. The power generated is sold to NV Energy under long-term contract.
- eT Energy Solutions LLC's 10 MW Indianapolis International Airport Solar Farm Phase 1 project in Marion County, IN is online. The power generated is sold to Indianapolis Power & Light under long-term contract.
- Lincoln Electric System's 4.8 MW Terry Bundy Generating Station Phase 5 expansion project in Lancaster County, NE is online. Phase 5 consists of three 1.8 MW units fired by distillate fuel oil and natural gas.
- Westvaco Corp.'s 82.4 MW Covington Mill expansion project in Alleghany County, VA is online. The project is fueled by wood waste solids and waste water from the paper mill. The power generated is used on site.
- Rhode Island LFG Genco LLC's 37 MW Broadrock Biopower I project in Providence, RI is online. This project, fueled by landfill gas from the Johnston Landfill, is the second largest LFG-to-energy project in the U.S.
- Riverstone Holding LLC's 43 MW Ocotillo Express Wind Phase II project in Imperial County, CA is online. Phase I, with 223 MW, came online in December 2012. The power generated is sold to San Diego Gas & Electric Co. under long-term contract.
- Alliance Power Inc.'s 23 MW Colorado Highland Winds Phase II project in Logan County, CO is online. Phase I, with 67 MW came online in December 2012. The power generated is sold to Tri State Generation & Transmission Association under long-term contract.
- WGL Holdings Inc's 3.8 MW Bellingham Solar project in Worcester County, MA is online. The power generated is sold to the City of Bellingham under long-term contract.
- Constellation Solar New York LLC's 2 MW Owens Corning Delmar Solar project in Albany County, NY is online. The power generated is used on site and sold to Owens Corning under long-term contract.
- St. Albans Solar Partner's 2 MW St. Albans Solar Farm project in Franklin County, VT is online. The power generated is sold to Vermont Electric Power Producers Inc. under long-term contract.
- Envirepel Energy Inc's 2.8 MW biomass fueled Kittyhawk Energy Phase I project in Talladega County, AL is online.



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

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

Primary Fuel Type	October 2013		January – October 2013 Cumulative		January – October 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	3	2,359
Natural Gas	0	0	60	6,625	97	6,245
Nuclear	0	0	0	0	1	0
Oil	3	5	12	36	40	76
Water	0	0	13	117	13	156
Wind	2	66	11	1,027	107	6,245
Biomass	4	124	65	360	123	519
Geothermal Steam	0	0	1	14	9	148
Solar	12	504	190	2,528	260	1,257
Waste Heat	0	0	6	76	1	3
Other	0	0	1	0	4	0
<b>Total</b>	<b>21</b>	<b>699</b>	<b>361</b>	<b>12,327</b>	<b>658</b>	<b>17,008</b>

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

### Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	333.73	28.82%
Natural Gas	486.41	42.00%
Nuclear	106.78	9.22%
Oil	47.00	4.06%
Water	96.12	8.30%
Wind	60.29	5.21%
Biomass	15.33	1.32%
Geothermal Steam	3.79	0.33%
Solar	6.79	0.59%
Waste Heat	1.13	0.10%
Other	0.80	0.07%
<b>Total</b>	<b>1,158.17</b>	<b>100.00%</b>

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



# Office of Energy Projects Energy Infrastructure Update For October 2013

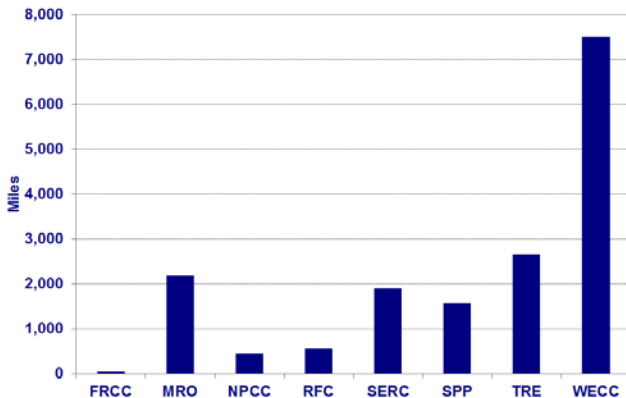
## Electric Transmission Highlights

- AEP Electric Transmission Texas has completed the 180.6 mile, 345 kV Clear Crossing – Dermott Transmission Project. The project is a part of the Competitive Renewable Energy Zone initiative (CREZ) in TX
- El Paso Electric has completed the 10 mile, 115 kV Santa Teresa - Montoya Transmission Project. The \$6.1 million project is a part of the CREZ in TX.

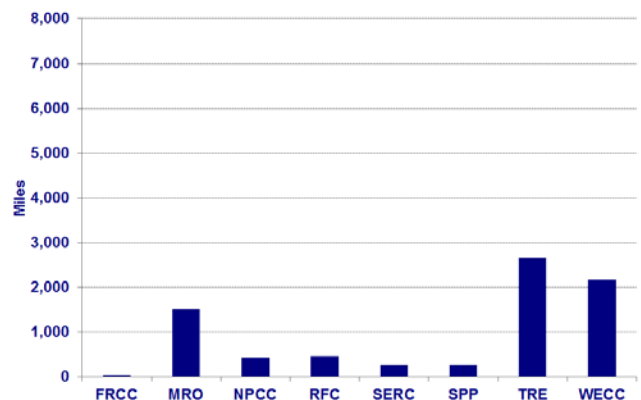
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by October 2015	
	October 2013	October 2012	January –October 2013 Cumulative	January – December 2012 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	10.0	59.0	138.1	1,072.8	1,160.1	4,394.6
345	180.6	0.0	2,230.6	1,112.3	4,845.9	6,764.2
500	0.0	14.0	176.0	187.5	1,772.7	5,690.8
<b>Total U.S.</b>	<b>190.6</b>	<b>73.0</b>	<b>2,544.7</b>	<b>2,372.6</b>	<b>7,778.7</b>	<b>16,849.6</b>

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

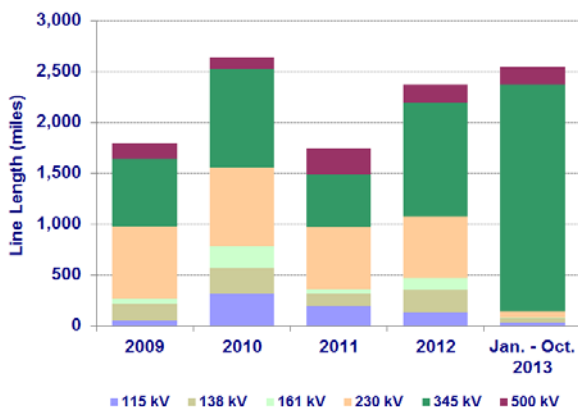
**All Transmission Projects with a Proposed In-Service Date by October 2015**



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