



Office of Energy Projects Energy Infrastructure Update For March 2013

Natural Gas Highlights

- CIG received authorization to construct and operate its High Plains 2013 Expansion Project which will provide 225 MMcf/d of new capacity connecting the Denver-Julesburg Basin with CIG's existing system in Weld County, CO.
- Dominion received authorization to construct and operate its Tioga Area Expansion and Sabinsville to Morrisville Projects which will provide a total of 362 MMcf/d of new capacity on Dominion's existing system in PA and NY.
- Gas Transmission Northwest received authorization to construct and operate the Carty Lateral Project. This project will provide 175 MMcf/d to Portland General Electric's proposed Carty Generating Station in Morrow County, OR.
- Gulf South Pipeline requested authorization to construct and operate its Southeast Market Expansion Project which will provide 510 MMcf/d of new capacity from producing areas in TX, OK, and LA to markets in the Southeast and FL.
- Southern LNG and Elba Express commenced the Commission's pre-filing process to construct and operate a 350 MMcf/d liquefaction and export facility at the existing import terminal at Elba Island, Chatham County, GA, and to expand the existing pipeline delivering gas to the import terminal by 350 MMcf/d.
- Magnolia LNG commenced the Commission's pre-filing process to construct and operate an 1,070 MMcf/d liquefaction and export facility in the Port of Lake Charles, Calcasieu Parish, LA.

Natural Gas Activities in March 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	1			95.0	0.0	0
Certificated	7			841.1	66.5	6,475
Proposed	4			1,135.5	98.3	61,215
Storage						
Placed in Service	0	0.0	0			0
Certificated	2	17.2	0			0
Proposed	2	4.7	0			0
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Export)	0	0	0			0
Proposed (Export)	2	6.8	1,420			0

Source: Staff Database

Natural Gas Activities through March 31, 2013 Through March 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 March 31, 2012	3 0			311.0 0	10.2 0	15,400 0
Certificated through March 31, 2012	11 6			2,411.7 899.3	78.0 27.6	61,550 30,090
Storage						
Placed in Service through March 31, 2012	1 4	0.2 5.2	0 150			0 15,300
Certificated through March 31, 2012	5 3	24.5 47.2	765 300			9,240 19,000
LNG (Import & Export)						
Placed in Service through March 31, 2012	0 0	0 0	0 0			0 0
Certificated (Export) through March 31, 2012	0 0	0 0	0 0			0 0

Source: Staff Database



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Hydropower Highlights

- The City of Westfield Water Resources Department was issued an order granting exemption from licensing (conduit) for the 0.080 MW Sackett Filtration Plant Project No. 14483, in Hampden County, MA.
- L.S. Starrett Company was issued a small-hydro exemption from licensing for the existing Crescent Street Dam Hydroelectric Project No. 14447. The exemption order authorizes an increase in total project capacity from 0.250 MW to 0.448 MW. The project is located on the Millers River, in the Town of Athol, Worcester County, MA.
- Freedom Falls, LLC was issued a small-hydro exemption from licensing for the proposed 0.050 MW Freedom Falls Hydroelectric Project No. 14421 on Sandy Stream, in the Town of Freedom, Waldo County, ME.
- The Three Valleys Municipal Water District filed an application for exemption from licensing (conduit) for the 0.292 MW Miramar Bypass Station Hydroelectric Project No. 14506, in Claremont, Los Angeles County, CA.

Hydropower Activities in March 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	0.292	0	0	0	0	1	0.292
Issued								
License	0	0	0	0	0	0	0	0
5-MW Exemption	2	0.248	0	0	0	0	2	0.248
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	1	0.080	0	0	0	0	1	0.080
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

Hydropower Activities Year to Date (through March 31, 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	4	0.552	0	0	0	0	4	0.552
Issued								
License	1	0.450	0	0	0	0	1	0.450
5-MW Exemption	2	0.248	0	0	0	0	2	0.248
Capacity Amendment	1	6.575	0	0	0	0	1	6.575
Conduit Exemption	3	0.500	0	0	0	0	3	0.500



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Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
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

- NRG Energy Inc's 26 MW Borrego Solar in San Diego County, CA is online. A second phase with 15 MW is expected to come online in June, 2013. The electricity generated is sold to San Diego G&E under long-term contract.
- City of Las Vegas' 3 MW Las Vegas Waste Water Treatment Plant Solar in Clark County, NV is online. The electricity generated will supply 20 percent of the power needed by the nearby Water Pollution Control Facility.
- KDC Solar LLC's 5 MW North Jersey Media Group Rockaway Solar in Morris County, NJ is online. The electricity generated will supply 60 percent of the power needed by North Jersey Media Group's Rockaway printing plant.
- Two solar projects online in HI: 1) 6 MW Kalaeloa Solar One in Honolulu County. The electricity generated is sold to Hawaii Electric Company under longer-term contract. 2) 1.9 MW Bosch Maui County Solar in Maui. The electricity generated will supply 11 municipal facilities.
- BLU Leaf Energy Inc's 1.15 MW Tanque Verde Unified School District Solar in Pima County, AZ is online. The electricity generated is sold to the school district under long-term contract.
- Weaver Cooke Construction's 1.3 MW Greensboro Natural Science Center in Guilford County, NC is online. The electricity generated is sold to Duke Energy Carolinas under long-term contract.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	March 2013		January – March 2013 Cumulative		January – March 2012 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0	1	808
Natural Gas	0	0	3	340	11	1,145
Nuclear	0	0	0	0	0	0
Oil	0	0	0	0	7	12
Water	0	0	4	5.4	0	0
Wind	0	0	6	958	33	1,431
Biomass	0	0	28	46	37	102
Geothermal Steam	0	0	0	0	4	72
Solar	7	44	38	537	61	264
Waste Heat	0	0	0	0	0	0
Other	0	0	0	0	0	0
Total	6	44	75	1,880	160	3,833

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



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Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	336.94	29.01%
Natural Gas	492.49	42.41%
Nuclear	106.27	9.15%
Oil	41.10	3.54%
Water	99.04	8.53%
Wind	60.11	5.18%
Biomass	15.13	1.30%
Geothermal Steam	3.75	0.32%
Solar	4.82	0.44%
Waste Heat	0.69	0.06%
Other	1.04	0.09%
Total	1,161.37	100.00%

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

Electric Transmission Highlights

- Minnesota Power has completed the 42.5 mile, 230 kV Essar Transmission Project. The \$35 million project consists of several segments near Nashauk, MN.
- American Transmission Co. has completed the 32-mile, 345 kV Rockdale-West Middleton Transmission Line. The \$152 million project is located in Dane County, WI.
- Lone Star Transmission has completed the \$466 million, 330 mile, and 345 kV Scurry-West Shackelford-Sam-Navarro Transmission project in TX.
- Atlantic Power agreed to sell its share in Path 15 (Gates, CA – Midway, CA) to Duke-American Transmission, a joint venture between Duke Energy and American Transmission.

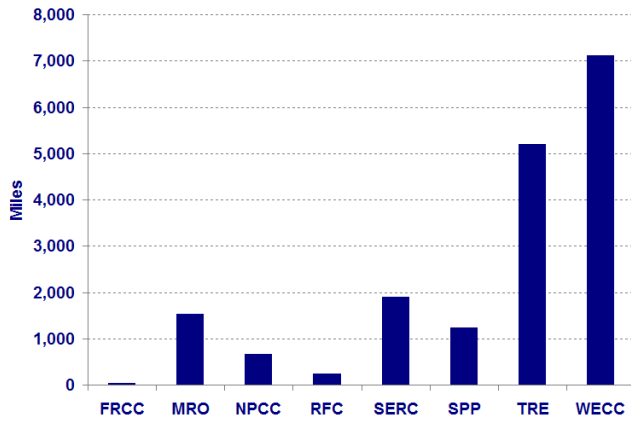
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by March 2015	
	March 2013	March 2012	January –March 2013 Cumulative	January – December 2012 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	42.5	39.5	46.5	701.6	1,004.3	4,209.2
345	362.0	0	362.0	1,069.6	6,896.9	8,850.7
500	0	0	0	170.1	1,461.4	4,856.4
Total U.S.	404.5	39.5	408.5	1,941.3	9,362.6	17,916.3

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

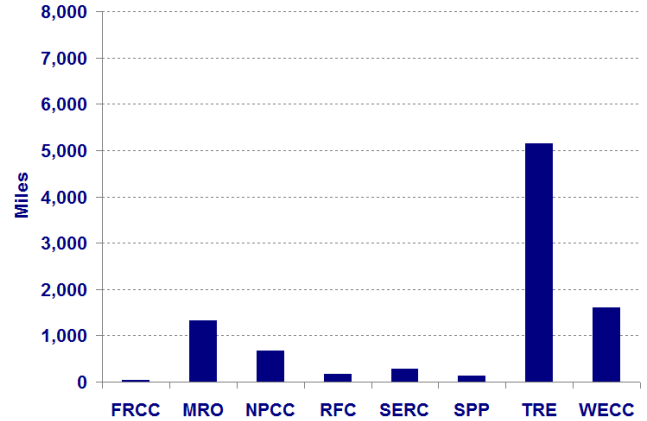


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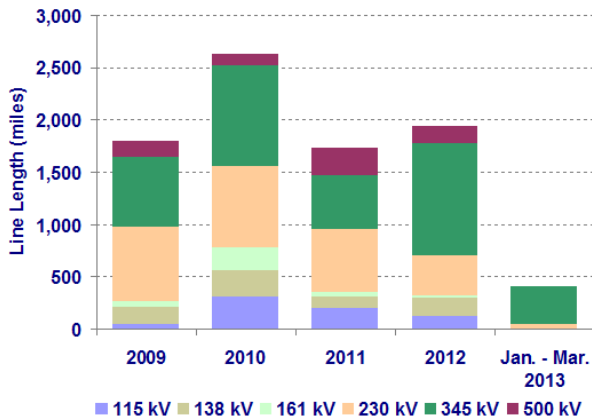
All Transmission Projects with a Proposed In-Service Date by March 2015



Transmission Projects with a High Probability of being completed by March 2015



New Transmission Projects by Voltage



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

Disclaimer: This Report contains analyses, presentations and conclusions that may be based on or derived from the data sources cited, but do not necessarily reflect the positions or recommendations of the data providers.