

Office of Energy Projects

Energy Infrastructure Update

For March 2012

Natural Gas Highlights

- Broadwater filed to vacate the authorizations to construct and operate a floating, 1 Bcf/d LNG terminal in Long Island Sound, near Long Island, NY, and the pipeline facilities connecting the terminal to the facilities of Iroquois Gas.
- Sawgrass received authorization to construct and operate a new gas storage facility in the depleted South Downsville gas field in Lincoln and Union Parishes, LA. The storage facility will have a working gas capacity of 30 Bcf.
- Columbia Gas received authorization to construct and operate its VEPCO-Warren County Project which will provide 246 MMcf/d of firm transportation capacity to Virginia Power for use in a new generation facility being constructed by VEPCO in Warren County, VA.
- National Fuel received authorization to construct and operate its Line N Expansion Project in Washington County, PA. This project will provide shippers with 163 MMcf/d of firm transportation capacity on National Fuel's Line N system.
- El Paso filed to construct and operate a new border crossing between U.S. and Mexico (Norte Crossing Project) in El Paso, County, TX. This project will provide 366 MMcf/d to planned Mexican power plants in northern Mexico.
- Trunkline LNG commenced the Commission's pre-filing process for its Trunkline LNG liquefaction facility in Lake Charles, LA. This facility will have a liquefaction capability of 2.4 Bcf/d.

Natural Gas Activities in March 2012

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	0			0.0	0.0	0
Certificated	2			409.0	7.32	20,620
Proposed	1			366.0	0.28	0
Storage						
Placed in Service	1	2.1	0			0
Certificated	1	30.0	300			19,000
Proposed	1	0.0	40			0
LNG						
Placed in Service	0	0	0			0
Certificated	0	0	0			0
Proposed	0	0	0			0

Source: Staff Database

Natural Gas Activities through March 31, 2012 Through March 31, 2011

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, 2011	0 6			0.0 4,805.0	0.0 639.5	0 336,530
Certificated through March 31, 2011	6 2			899.3 688.0	27.6 20.5	30,090 59,265
Storage						
Placed in Service through March 31, 2011	3 1	5.2 8.0	150 2,500			0 0
Certificated through March 31, 2011	3 3	47.2 68.0	300 2,115			19,000 47,210
LNG						
Placed in Service through March 31, 2011	0 1	0 9.84	0 1,000			0 0
Certificated through March 31, 2011	0 0	0 0	0 0			0 0

Source: Staff Database

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Hydropower Highlights

- Jordan Hydroelectric Limited Partnership was issued an original license for the 3.7-MW Gathright Hydroelectric Project No. 12737. The project will be located at the existing U.S. Army Corps of Engineers' Gathright Dam on the Jackson River near Falling Springs, Alleghany County, VA.
- Putnam Green Power, LLC was issued a small-hydro exemption for the 0.875-MW Cargill Falls Hydroelectric Project No. 13080. The project will be located on the Quinebaug River in the Town of Putnam, Windham County, CT.
- Blue Heron, LLC was issued an original license for the 0.924-MW Townshend Dam Hydroelectric Project No. 13368. The project will be located at the existing U.S. Army Corps of Engineers' Townshend Dam on the West River near the Town of Townshend, Windham County, VT.
- PacifiCorp was issued a conduit exemption for the 1.7-MW Granite Hydroelectric Project No. 14293. The project will be located in Salt Lake County, UT.
- An order amending license was issued to FirstLight Hydro Generating Co. for the Northfield Mountain/Turners Falls Project No. 2485, located on the Connecticut River, MA, authorizing the upgrade of the project's pump turbine units for a capacity increase of 22 MW.
- Snohomish County Public Utility District Number 1 filed a license application for the proposed 1-MW Admiralty Inlet Pilot Tidal Project No. 12690. The pilot project would be located in Puget Sound, Kitsap County, WA.
- Don W. Gilbert Hydropower, LLC filed a small-hydro exemption application for the proposed 0.075-MW Gilbert Hydroelectric Project No. 14367. The project would be located on an unnamed tributary to the Bear River near Grace, Caribou County, ID.
- The Catamount Metropolitan District filed a small-hydro exemption application for the proposed 0.695-MW Catamount Hydroelectric Project No. 14368. The project would be located on the Yampa River, approximately five miles south of Steamboat Springs, Routt County, CO.
- The City of Hillsboro, OR, filed a conduit exemption for the 0.094-MW Will Crandall Reservoir Project No. 14371, which would be located on the City of Hillsboro's municipal water system, in Washington County, OR.
- The Grand Valley Irrigation District filed a conduit exemption application for the 0.185-MW Dividers Project No. 14377, which would be located on the applicant's irrigation system, in Mesa County, CO.

Hydropower Activities in March 2012

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	1	1.000	1	1.000
5-MW Exemption	2	0.770	0	0	0	0	2	0.770
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	2	0.279	0	0	0	0	2	0.279
Issued								
License	2	4.624	0	0	0	0	2	4.624
5-MW Exemption	1	0.875	0	0	0	0	1	0.875
Capacity Amendment	2	6.890	1	22.000	0	0	3	26.890
Conduit Exemption	1	1.700	0	0	0	0	1	1.700
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

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Hydropower Activities Year to Date (through March 31, 2012)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	14.080	0	0	1	1.000	2	15.080
5-MW Exemption	2	0.770	0	0	0	0	2	0.770
Capacity Amendment	2	5.210	0	0	0	0	2	5.210
Conduit Exemption	6	2.079	0	0	0	0	6	2.079
Issued								
License	5	22.644	0	0	2	1.350	7	23.994
5-MW Exemption	2	1.125	0	0	0	0	2	1.125
Capacity Amendment	5	31.362	1	22.000	0	0	6	53.362
Conduit Exemption	2	2.000	0	0	0	0	2	2.000
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

- EnergySource LLC's 49.9 MW Hudson Ranch I project in Imperial County California is online. Hudson Ranch I is the first geothermal power plant completed in California's Salton Sea resource area in more than 20 years. The plant's power output is contracted for 30 years to Salt River Project, the municipal utility of Tempe, Arizona
- Terra-Gen's 6.1 MW Dixie Valley Bottoming Binary Project in Churchill County, Nevada is online. This project is partially funded by DOE for the development of commercial use of binary technology for electricity production from low pressure, low-temperature existing geothermal brine of less than 300°F.
- Iberdrola's 304 MW Blue Creek Wind Farm in Ohio is completed. Phase 1 of the project with 128 MW came online in December 2011; phase 2 with 176 MW came online in March 2012, totaling 152 2-MW Gamesa G90 turbines. The power generated is contracted to FirstEnergy Solutions.
- Gamesa Energy USA's 80 MW Pocahontas Prairie Wind project in Pocahontas County, Pennsylvania is online. The project consists of 40 2-MW Gamesa turbines.
- Revolution Energy's 9 MW Harbor Sunrise Wind Farm in the north side of the Port Corpus Christi Inner Harbor, Texas is online. This project consists of six China Guodian turbines, the first China made turbines to gain foothold into the U.S. market.
- Ameresco, Inc. and the US Department of Energy's 20 MW Savannah River Site (SRS) Biomass Cogeneration Facility (BCF) in Aiken, South Carolina is online. The SRS BCF is powered by local forest residue and wood chips, replacing an inefficient coal-fired power station and oil-fired boilers at SRS.
- Five photovoltaic projects totaling 15.5 MW in New Jersey came online: 4.9 MW 24 Applegate Solar in Mercer County; 3.7 MW Cornerstone Power Vineland I in Cumberland county; 1.7 MW Global Pharma Co Solar in Somerset County; 3.8 MW Mill Creek Solar in Burlington County; and 1.4 MW Rutgers University Solar Farm in Middlesex County.
- The 5 MW West Tennessee Solar Farm in Haywood County, Tennessee is online. The project consists of 21,000 photovoltaic panels. The power generated is sold to Chickasaw Electric Cooperative and Tennessee Valley Authority.
- Two photovoltaic projects totaling 3.5 MW came online in California: 1.5 MW Nickel 1 Solar in Kern County; and 2 MW SCE Twentynine Palms Solar in San Bernardino County.

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New Generation In-Service (New Build and Expansion)

Primary Fuel Type	March 2012		January – March 2012 Cumulative		January – March 2011 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	1	808	4	915
Natural Gas	0	0	9	988	14	1,788
Nuclear	0	0	0	0	0	0
Oil	0	0	2	3	1	3
Water	0	0	0	0	4	1
Wind	3	265	22	1,369	53	2,595
Biomass	1	20	11	29	28	125
Geothermal Steam	2	56	2	56	1	8
Solar	9	25	34	151	54	124
Waste Heat	0	0	0	0	1	135
Other	0	0	0	0	7	8
Total	15	366	81	3,404	167	5,701

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

Total Installed Operating Generating Capacity

Primary Fuel Type	Installed Capacity (GW)	% of Total Capacity
Coal	342.59	29.79%
Natural Gas	479.08	41.66%
Nuclear	106.31	9.24%
Oil	52.41	4.56%
Water	99.68	8.67%
Wind	48.36	4.20%
Biomass	13.83	1.20%
Geothermal Steam	3.49	0.30%
Solar	2.40	0.21%
Waste Heat	0.77	0.07%
Other	1.04	0.09%
Total	1,149.95	100.00%

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

Electric Transmission Highlights

- American Transmission Company completed the 138 kV, 7.64 mile Canal-Dunn Road transmission line in WI three months ahead of schedule with a final cost estimate of \$15.8 million.
- The New York State Public Service Commission staff announced a schedule for evidentiary hearings and deadlines for briefs to be filed by interested parties in the Champlain Hudson Power Express that would conclude in the fall of 2012. A final decision on the \$2 billion, 333-mile underground electric transmission line that would connect Quebec to New York City is expected in late fall.
- The construction of the interstate, \$3.5 billion, 800 miles, HVDC Plains and Eastern Clean Line is expected to begin in 2014 and to finish in 2017. The project would allow wind energy from western Oklahoma to flow into the Tennessee Valley Authority. The project will cross the states of Oklahoma, Arkansas and Tennessee.

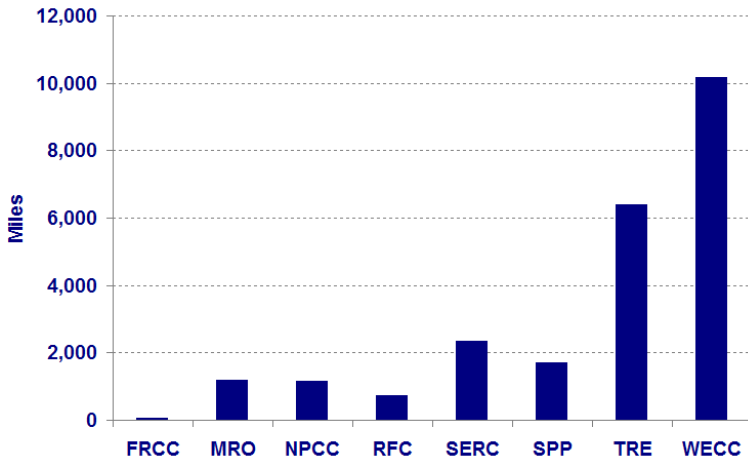
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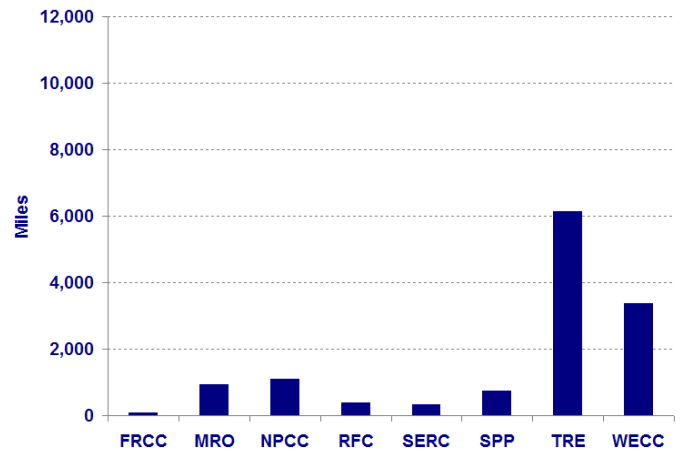
For March 2012

Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by March 2014	
	March 2012	March 2011	January –March 2012 Cumulative	January –December 2011 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	7.6	49.2	7.6	1,188.4	2,137.4	6,271.9
345	0	37.2	0	681.9	8,406.8	10,344.9
500	0	1.2	79.0	268.4	2,502.1	7,134.0
Total U.S.	7.6	87.6	86.6	2,138.6	13,046.3	23,750.9

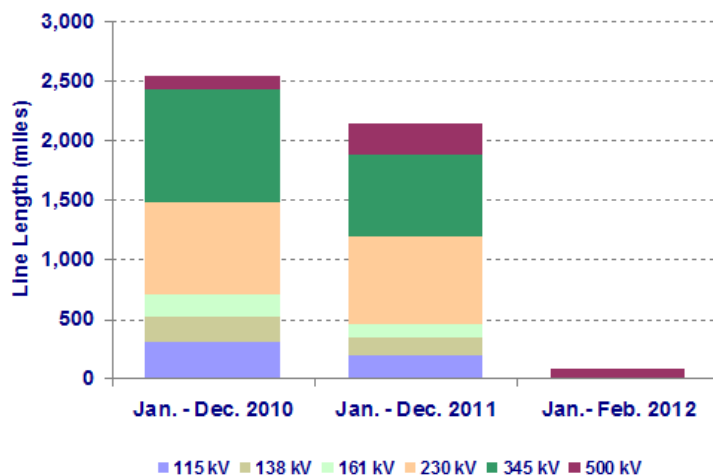
All Transmission Projects with a Proposed In-Service Date by March 2014



Transmission Projects with a High Probability of being completed by March 2014



Completed Transmission Projects As of March 31, 2012



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2012 The C Three Group, LLC

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