

Office of Energy Projects

Energy Infrastructure Update

For February 2011

Natural Gas Highlights

- Questar Overthrust placed its Loop Expansion Project into service in Uinta and Sweetwater Counties, Wyoming. The additional 800 MMcf/d of capacity will facilitate deliveries to Kern River and eventual deliveries to the proposed Ruby Pipeline.
- ETC Tiger Pipeline received authorization to construct and operate facilities to increase throughput capacity by 400 MMcf/d on its Tiger Pipeline system. The additional capacity is required to transport gas from the Haynesville Shale and Mid-Bossier Shale producing areas located in Northwest Louisiana and east Texas to Midwestern and Eastern markets.
- Transco commenced the Commission's pre-filing process for its Northeast Supply Line Project which will provide 250 MMcf/d of capacity for transportation from supply interconnections in Pennsylvania to markets in and around New York City.

Natural Gas Activities in February 2011

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	1			800.0	43.3	0
Certificated	1			400.0	20.5	30,565
Proposed	1			250.0	39.4	36,000
Storage						
Placed in Service	0	0	0			0
Certificated	0	0	0			0
Proposed	0	0	0			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 February 28, 2011 Through February 28, 2010

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through February 28, 2010	3			1,450	43.3	102,430
	3			3,376	190.1	39,990
Certificated through February 28, 2010	2			688	20.5	59,265
	3			1,087.5	3.4	49,471
Storage						
Placed in Service through February 28, 2010	0	0.0	0			0
	0	0	0			0
Certificated through February 28, 2010	0	0.0	0.0			0
	1	15.0	600			9,500
LNG						
Placed in Service through February 28, 2010	0	0	0			0
	0	0	0			0
Certificated through February 28, 2010	0	0	0			0
	0	0	0			0

Source: Staff Database

Office of Energy Projects
Energy Infrastructure Update
For February 2011

Hydropower Highlights

- On February 1, 2011, Putnam Green Power, LLC, filed an application for a small hydropower exemption for the proposed 0.875-MW Cargill Falls Hydroelectric Project No. 13080. The project would be located on the Quinebaug River in the Town of Putnam, Windham County, Connecticut.
- On February 4, 2011, Mr. David Creasey filed an application for a minor license for the proposed 0.0225-MW Creasey Hydropower Project No. 13829. The project would be located on Lincoln Creek and the Lincoln Creek Drainage Ditch on the Fort Hall Reservation in Fort Hall, Idaho.
- On February 14, 2011, Whitman River Dam, Inc., filed an application for a small hydropower exemption for the proposed 0.145-MW Crocker Dam Hydroelectric Project No. 13237. The project would be located at the existing Crocker Dam on the Whitman River in the Town of Westminster, Worcester County, Massachusetts.
- On February 16, 2011, Andrew Peklo III filed an application for a small hydropower exemption for the proposed 0.076-MW Pomperaug Hydro Project No. 12790. The project would be located at the existing Pomperaug River Dam on the Pomperaug River in the Town of Woodbury, Litchfield County, Connecticut.

Hydropower Activities in February 2011

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	0.0225	0	0	0	0	1	0.0225
5-MW Exemption	3	1.096	0	0	0	0	3	1.096
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
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	2	6.494	0	0	0	0	2	6.494
Conduit Exemption	0	0	0	0	0	0	0	0
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

Hydropower Activities Year to Date (through February 28, 2011)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	1	0.0225	0	0	0	0	1	0.0225
5-MW Exemption	3	1.096	0	0	0	0	3	1.096
Capacity Amendment	1	2.550	0	0	0	0	1	2.550
Conduit Exemption	1	0.075	0	0	0	0	1	0.075
Issued								
License	0	0	0	0	0	0	0	0
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	4	12.544	0	0	0	0	4	12.544
Conduit Exemption	1	0.200	0	0	0	0	1	0.200

Office of Energy Projects Energy Infrastructure Update For February 2011

	Conventional		Pumped Storage		Hydrokinetic			
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

- Wisconsin Power and Light Company began commercial operation of its Bent Tree Wind Farm Phase I in Freeborn County, Minnesota on February 7, 2011. Phase I consists of 122 1.65-MW wind turbines, totaling 200 MW capacity of electricity, enough to power 50,000 homes.
- The Idaho Wind Partners Project, which consists of eleven wind farms totaling 183 MW capacity came online in February, 2011. The Idaho Wind Project consists of 122 1.5-MW GE wind turbines, stretching across 10,000 acres of active and idle farmlands. The electricity produced is contracted to Idaho Power for 20 years.
- Ormat Technologies' Puna Geothermal Venture on Hawaii Island has expanded its capacity in February 2011 by 8-MW, totaling 42-MW. Puna Geothermal Venture has provided baseload power to the island's grid since 1993. The electricity generated is supplied to Hawaii Electric Light Company
- Southern California Edison (SCE) has interconnected seven new distributed-generation solar plants on February 1, 2011. The systems, located on more than 3.36 million square feet of ProLogis-owned warehouse roof space in the Southern California cities of Ontario and Redlands, have a combined installed generating capacity of 12.5 MW. SCE plans to have 250 MW of commercial rooftop PV power deployed within the next four years.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	February 2011		January – February 2011 Cumulative		January – February 2010 Cumulative	
	No. of Plants	Installed Capacity (MW)	No. of Plants	Installed Capacity (MW)	No. of Plants	Installed Capacity (MW)
Coal	0	0	3	615	4	1,319
Natural Gas	4	2	7	152	6	301
Nuclear	0	0	0	0	0	0
Oil	0	0	0	0	0	0
Water	0	0	4	1	2	1
Wind	19	613	22	728	17	92
Biomass	0	0	16	20	26	41
Geothermal Steam	1	8	1	8	0	0
Solar	12	19	20	59	3	4
Waste Heat	0	0	0	0	0	0
Other	0	0	5	20	0	0
Total	36	642	78	1,602	58	1,759

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

Office of Energy Projects

Energy Infrastructure Update

For February 2011

Total Installed Operating Generation Capacity

Primary Fuel Type	Installed Capacity (GW)	% of Total Capacity
Coal	344.99	30.40%
Natural Gas	461.71	40.69%
Nuclear	108.33	9.55%
Oil	61.13	5.39%
Water	99.12	8.74%
Wind	39.73	3.50%
Biomass	13.38	1.18%
Geothermal Steam	3.35	0.30%
Solar	1.18	0.10%
Waste Heat	0.82	0.07%
Other	0.98	0.09%
Total	1,134.72	100.00%

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

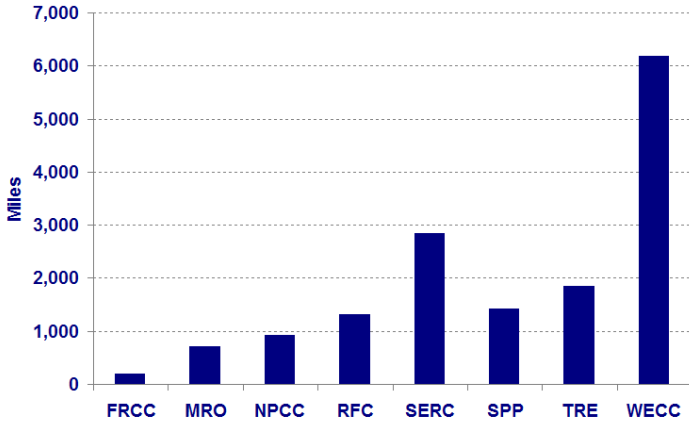
Electric Transmission Highlights

- The Potomac-Appalachian Transmission Highline (PATH) project, a joint venture of FirstEnergy and American Electric Power, is suspended. The \$2 billion, 765-kV, 275-mile PATH project was originally proposed in 2007 to meet future reliability violations. Due to the economic downturn and the resulting decline in load forecast the original reliability violations concern have moved several years into the future. The PATH project would have been constructed from Putnam County, West Virginia to Frederick County, Maryland.
- The final portion of the Brookings – Hampton transmission project was approved by the Minnesota Public Utilities Commission. The 345kV, 240-mile transmission line is part of the CapX2020 project being built by a group of 11 utility companies. Construction on the Brookings-Hampton project is scheduled to begin in 2012 and to be completed in 2015,
- PacifiCorp has awarded EC Source, a MasTec Inc. affiliate, a construction contract for the Mona-Oquirrh transmission line. The 345kV, 100 mile Mona-Oquirrh line is a part of the Gateway Central Project. Construction on the Mona-Oquirrh line is scheduled to start in 2011 and completed by June 2013.
- The U.S. Department of Energy approved a \$343 million loan guarantee for NV Energy and Great Basin Transmission LLC to develop the One Nevada Transmission Line or ON Line project. The 500kV, 235 mile ON Line project is estimated to cost \$500 million to build and will connect the Harry Allen generating station to the Robinson Summit substation. The ON Line project is expected to be in-service by June 2013.

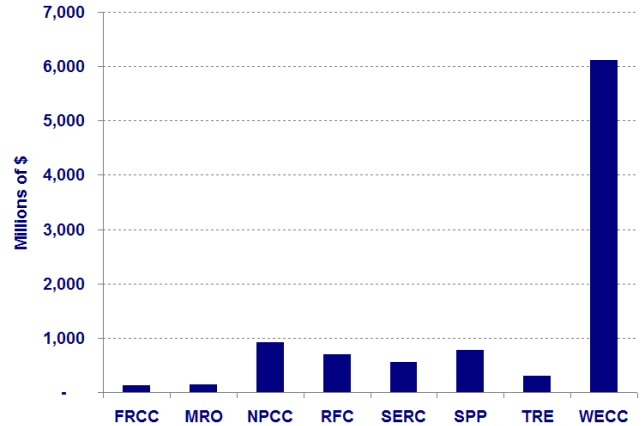
Voltage (kV)	Transmission Projects Completed		Proposed Transmission Projects
	February 2011	February 2010	In-Service by February 2013
Line Length (miles)			
≤230	69.1	8.8	6,604.6
345	3.2	17.1	4,381.6
500	0	0	4,469.5
765	0	0	0
Total U.S.	72.3	25.9	15,455.7

Office of Energy Projects Energy Infrastructure Update *For February 2011*

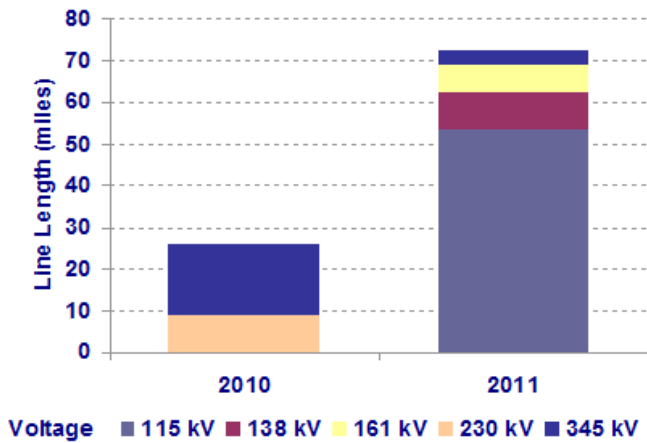
**Transmission Projects with a Proposed
In-Service Date by February 2013**



**Projected Investment Cost of
Transmission Projects with a Proposed
In-Service Date by February 2013**



**Transmission Projects Completed in
February of 2010 and 2011**



Source: Data derived from Staff Database and U.S. Electric Transmission Projects ©2009 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.