

Office of Energy Projects
Energy Infrastructure Update
For August 2011

Natural Gas Highlights

- The Commission vacated the authorizations issued to Ingleside Energy and San Patricio Pipeline, and to Creole Trail LNG to construct and operate LNG terminals and pipeline facilities near Ingleside, TX and in Cameron Parish, LA.
- East Tennessee was authorized to place into service its Northeastern Tennessee Project which will provide 150 MMcf/d of firm transportation to TVA's new John Sevier combined-cycle plant in Hawkins County, TN.
- Dominion received authorization to construct and operate its Northeast Expansion Project which will provide 200 MMcf/d of new capacity for the transportation of PA gas supplies to markets in the Mid-Atlantic and Northeast.
- Transco received authorization to construct and operate its Mid-South Expansion Project. This project will provide 225 MMcf/d of new mainline capacity for the transportation of natural gas from Alabama to North Carolina.
- Leader One received authorization to convert a depleted gas production field to a storage facility in Adams County, CO. The project is designed to provide 11 Bcf of working gas capacity.
- Golden Triangle Storage filed an application to develop two new salt dome caverns at its existing storage facility in Jefferson County, TX. This development will expand the working gas capacity by 16.6 Bcf.

Natural Gas Activities in August 2011

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	2			150.0	54.4	27,000
Certificated	3			435.4	22.6	82,220
Proposed	0			0.0	0.0	0
Storage						
Placed in Service	1	2.0	0			0
Certificated	3	13.0	295			9,300
Proposed	1	16.6	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 August 31, 2011
Through August 31, 2010

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	16			8,210.5	1,484.5	645,771
through August 31, 2010	13			5,507.7	280.2	168,405
Certificated	11			2,707.7	260.7	192,605
through August 31, 2010	16			8,335.4	1,476.4	439,454
Storage						
Placed in Service	6	27.3	2,545			6,283
through August 31, 2010	9	52.4	1,721			8,180
Certificated	10	151.3	3,495			101,010
through August 31, 2010	13	120.7	4,763			122,404
LNG						
Placed in Service	1	16.4	2,000			0
through August 31, 2010	1	4.22	400			0
Certificated	0	0	0			0
through August 31, 2010	0	0	0			0

Source: Staff Database

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Hydropower Highlights

- On August 26, 2011, OEP staff issued an original license for East Texas Electric Cooperative, Inc.'s proposed 24-MW Lake Livingston Hydroelectric Project No. 12632. The project would be located on the Trinity River Authority's existing Lake Livingston Dam on the Trinity River near the city of Livingston, in San Jacinto, Polk, Trinity, and Walker counties, Texas. The Cooperative proposes to build a headrace channel, an intake structure, three new penstocks, a powerhouse, a tailrace channel, a 3.2-mile-long transmission line, a switchyard, a service building, and several new paved access roads.
- On August 30, 2011, Copper Valley Electric Association, Inc. filed a final license application prepared under the Alternate Licensing Process for the proposed 6.5-MW Allison Creek Hydroelectric Project No. 13124. The project would be located on Allison Creek and Port Valdez near the City of Valdez, Alaska.
- Duke Energy Carolinas, LLC filed an application for non capacity amendment of license for the 26.175-MW East Fork Project, located on Tuckasegee River and Wolf Creek, in Jackson County, North Carolina. The licensee proposes to add a 0.395-MW minimum flow unit at the Cedar Cliff Development.
- Public Utility District of Snohomish County, Washington, filed an application for exemption from licensing (conduit) for the proposed Rucker Hill Project, located on the 19-mile-long raw water line from Chaplain Reservoir in city of Everett's water system, in Snohomish County, Washington. The project will have a capacity of 0.735 MW under 240 feet of head and an annual energy generation of 6,117 MWh
- Jordan Whittaker filed an application for exemption from licensing (conduit) for the 0.460 MW Eightmile Project, located on the applicant's irrigation pipeline in Lemhi County, Idaho. The licensee proposes to develop 0.460 MW capacity and the annual energy generation will be 1,450 MWh.

Hydropower Activities in August 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	6.500	0	0	0	0	1	6.500
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	1	0.395	0	0	0	0	1	0.395
Conduit Exemption	2	1.195	0	0	0	0	2	1.195
Issued								
License	1	24.000	0	0	0	0	1	24.000
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
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

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Hydropower Activities Year to Date (through August 31, 2011)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	10	342.923	0	0	0	0	10	342.923
5-MW Exemption	4	1.346	0	0	0	0	4	1.346
Capacity Amendment	8	56.645	0	0	0	0	8	56.645
Conduit Exemption	8	7.249	0	0	0	0	8	7.249
Issued								
License	7	72.910	0	0	0	0	7	72.910
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	9	34.897	0	0	0	0	9	34.897
Conduit Exemption	4	1.725	0	0	0	0	4	1.725
Placed in Service								
License	2	13.000	0	0	0	0	2	13.000
5-MW Exemption	2	0.375	0	0	0	0	2	0.375
Capacity Amendment	1	3.000	0	0	0	0	1	3.000
Conduit Exemption	4	1.365	0	0	0	0	4	1.365

Source: Staff Database

Electric Generation Highlights

- Basin Electric Power Cooperative and Wyoming Municipal Power Agency's coal-fired 390-MW Dry Fork Station near Gillette, Wyoming came online. Sub-bituminous coal from the nearby Dry Fork Mine will fuel the Dry Fork Station via a mile long conveyor system.
- Formosa Plastics Corporation, U.S.A.'s Point Comfort Cogeneration Plant 155-MW Phase 1 in Point Comfort, Texas came online. The Point Comfort Cogeneration is coke-fueled.
- NRG Solar and Eurus Energy's 45-MW Avenal Solar Generating Facility, the largest photovoltaic generating facility in California has come online. Avenal Solar is comprised of three solar projects, the 8-MW Avenal Park, the 19-MW Sun City and the 18-MW Sand Drag. At full capacity Avenal generates enough clean renewable energy to meet the needs of 36,000 homes.
- NRG Solar's 20-MW Roadrunner Solar Generating Facility near Santo Teresa, New Mexico has come online. This is the second-largest photovoltaic project in the state of New Mexico. The renewable power generated will be sold to El Paso Electric under a 20-year power purchase agreement.
- The City of Dover, Delaware's Dover 10-MW SUN Park came online. Dover SUN Park will generate power for more than 1,500 homes. The facility was planned and developed by LS Power and constructed by SunPower.
- Aspen Power's 50-MW Lufkin Biomass Power Plant in Lufkin, Texas came online. The first biomass plant in Texas, the Lufkin Biomass will be fueled by 525,000 tons of logging and wood debris each year.
- Roseburg Forest Products' 15-MW Weed Biomass Cogeneration plant in Weed, northern California came online. Roseburg is the largest privately owned wood products company. About half of the power generated will power the mill facility in Weed.
- MidAmerican Energy's 30-MW Pomeroy Wind Farm near Pomeroy, Iowa came online. The wind farm consists of thirteen Siemens wind turbines with an output of 2.3-MW each.

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New Generation In-Service (New Build and Expansion)

Primary Fuel Type	August 2011		January – August 2011 Cumulative		January – August 2010 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	3	545	12	1,680	23	5,662
Natural Gas	0	0	67	7,886	60	4,345
Nuclear	0	0	0	0	0	0
Oil	0	0	2	4.6	7	205
Water	0	0	8	19	10	19
Wind	3	33	77	3,275	43	1,895
Biomass	5	70	43	159	54	256
Geothermal Steam	0	0	2	23	0	0
Solar	16	92	114	319	38	95
Waste Heat	0	0	1	135	4	96
Other	0	0	9	20	0	0
Total	27	740	335	13,521	239	12,575

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

Total Installed Operating Generation Capacity

Primary Fuel Type	Installed Capacity (GW)	% of Total Capacity
Coal	344.43	30.12%
Natural Gas	476.25	41.65%
Nuclear	107.09	9.36%
Oil	52.70	4.61%
Water	99.52	8.70%
Wind	43.18	3.78%
Biomass	13.55	1.18%
Geothermal Steam	3.40	0.30%
Solar	1.48	0.13%
Waste Heat	0.89	0.08%
Other	1.11	0.10%
Total	1,143.58	100.00%

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

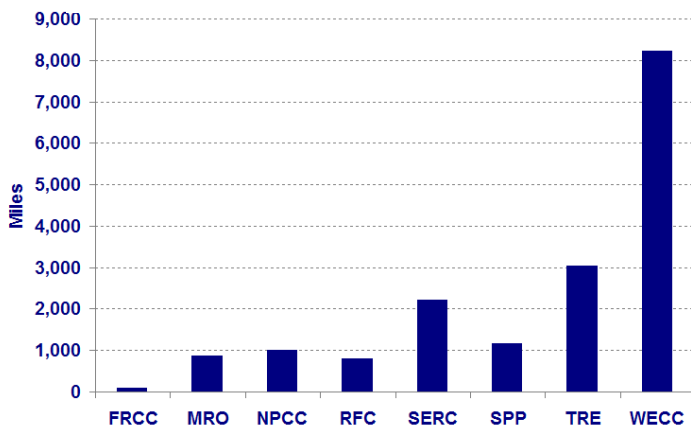
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Electric Transmission Highlights

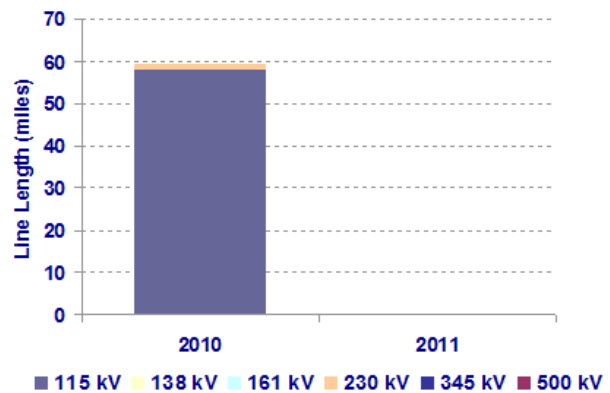
- The U.S. Bureau of Land Management (BLM) has issued a draft environmental impact statement for Gateway West. The 1,103 mile interstate transmission project is a combination of 230 kV and 500 kV lines and will connect the proposed Windstar substation near Glenrock, WY and the proposed Hemingway substation near Melba, ID. The BLM has not selected a preferred route but the project is expected to be completed in 2018.
- Transmission Developers, Inc. has filed a motion with the New York State Public Service Commission to extend settlement negotiations. The settlement negotiations concerning the Champlain Hudson Power Express Transmission Project currently involve 29 different parties. The proposed 300 mile, HVDC transmission project would run from the U.S.-Canada border to New York City.
- Enbridge Inc. is purchasing Tonbridge Power Inc., the developer of the Montana-Alberta Tie Project (MATL). MATL is a 230 kV, 214 mile transmission line that will connect a new substation near the city of Lethbridge in Alberta, Canada to the Great Falls substation near Great Falls, Montana. The first phase of the project is expected to be operational in 2012.
- Electric Transmission Texas LLC announced plans for a new 345 kV transmission line in the Rio Grande Valley. The \$400 million, 200 mile line would connect Laredo, TX and Brownsville, TX. The new transmission line would increase reliability in the area.

Voltage (kV)	Transmission Projects Completed		Proposed Transmission Projects In-Service by August 2013	
	August 2011	August 2010	High Probability of Completion	All
	Line Length (miles)			
≤230	0	59.2	3,100.6	5,749.2
345	0	0	4,246.8	5,665.4
500	0	0	1,706.8	6,000.5
Total U.S.	0	59.2	9,054.2	17,415.1

Transmission Projects with a Proposed In-Service Date by August 2013



Transmission Projects Completed in August



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2011 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.