



# Office of Energy Projects Energy Infrastructure Update For July 2014

## Natural Gas Highlights

- Freeport LNG received authorization to construct and operate an LNG export terminal (1.8 Bcf/d) at Freeport LNG's existing Quintana Island import terminal located near the city of Freeport, in Brazoria County, TX.
- Colombia Pipeline requested authorization to construct and operate a border facility which will provide 1,120 MMcf/d of capacity to Mexico at the international boundary between the U.S. and Mexico in Webb County, TX.
- KM Louisiana requested authorization to construct and operate its Lake Charles Expansion Project which will provide 1,400 MMcf/d of north-to-south capacity for Magnolia LNG for its proposed export terminal near Lake Charles, LA.
- Golden Pass LNG and Golden Pass Pipeline requested authorization to construct and operate an LNG export terminal (2.1 Bcf/d) at Golden Pass's existing import terminal in Sabine Pass, TX., and pipeline facilities to provide 2,500 MMcf/d of bi-directional capacity on Golden Pass Pipeline's existing system to serve the proposed terminal.
- National Fuel and Empire commenced the Commission's pre-filing process to construct and operate the Northern Access 2016 Project which will provide 350 MMcf/d of capacity for shippers to serve markets in the northeastern U.S.
- Columbia Gulf commenced the Commission's pre-filing process to construct and operate its Cameron Access Project which will provide 800 MMcf/d of capacity to the proposed Cameron LNG export facility in Cameron Parish, LA.

### Natural Gas Activities in July 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
<b>Pipeline</b>						
Placed in Service	1			230.0	7.6	0
Certificated	3			109.7	32.8	9,470
Proposed	10			6,680.7	262.3	222,565
<b>Storage</b>						
Placed in Service	0	0.0	0			0
Certificated	1	0.0	0			2,000
Proposed	0	0.0	0			0
<b>LNG (Import &amp; Export)</b>						
Placed in Service	0	0	0			0
Certificated (Export)	1	0	1,800			0
Proposed (Export)	2	4.4	2,400			0

Source: Staff Database

### Natural Gas Activities through July 31, 2014

#### Through July 31, 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	7			808.2	57.9	30,950
through July 31, 2013	8			1,252.0	12.9	69,660
Certificated	19			5,851.9	222.0	213,623
through July 31, 2013	17			3,196.6	103.7	61,550
<b>Storage</b>						
Placed in Service	5	17.25	110			4,800
through July 31, 2013	10	38.7	2,282			56,620
Certificated	3	1.2	0			2,500
Through July 31, 2013	11	31.6	766			9,240
<b>LNG (Import &amp; Export)</b>						
Placed in Service	0	0	0			0
through July 31, 2013	0	0	0			0
Certificated (Export)	3	3.4	4,060			0
through July 31, 2013	0	0	0			0

Source: Staff Database



## Office of Energy Projects Energy Infrastructure Update For July 2014

### Hydropower Highlights (nonfederal)

- Ketchikan Public Utilities placed into service the 4.6-MW Whitman Lake Project No. 11841. The project is located 4 miles east of Ketchikan, in Ketchikan Gateway Borough, AK. The project operates with water withdrawn from the existing Whitman Lake, which is an existing impoundment of Whitman Creek, and is augmented by flows from a new diversion on Achilles Creek. Whitman Lake continues to serve as the water supply for a downstream fish hatchery
- Sacramento Municipal Utility District was issued a new license for the existing 637.3 MW Upper American River Hydroelectric Project No. 2101. The license authorizes construction of the proposed 400 MW Iowa Hill Pumped Storage Development as part of the project. The project is located on the Rubicon River, Silver Creek, and South Fork American River in El Dorado and Sacramento Counties, CA.
- 5440 Hydro, Inc. filed an exemption application for the proposed 0.6 MW Brooklyn Dam Hydroelectric Project No. 13806. The project would be located on the Upper Ammonoosuc River in Coos County, NH.

#### Hydropower Activities in July 2014

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	0	0	0	0	0	0	0	0
10-MW Exemption	1	0.600	0	0	0	0	1	0.600
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
<b>Issued</b>								
License	0	0	1	400.000	0	0	1	400.000
10-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	1	4.600	0	0	0	0	1	4.600
10-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 July 31, 2014)

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	12	172.800	0	0	0	0	12	172.800
10-MW Exemption	2	1.800	0	0	0	0	2	1.800
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	2	49.400	0	0	0	0	2	49.400
<b>Issued</b>								
License	6	135.920	3	1,736.000	1	0.600	10	1,872.520
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	1	1.295	0	0	0	0	1	1.295
Conduit Exemption	0	0	0	0	0	0	0	0



## Office of Energy Projects Energy Infrastructure Update For July 2014

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
<b>Placed in Service</b>								
License	3	11.805	0	0	0	0	3	11.805
10-MW Exemption	1	0.700	0	0	0	0	1	0.700
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

- Blue Renewable Energy IMS LLC's 9 MW Indianapolis Motor Speedway Solar Farm project in Marion County, IN is online. The power generated is sold to Indianapolis Power and Light under long-term contract.
- Ugt Renewable Energy 10 LLC's 5.9 MW Lancaster Solar Project in Middlesex County, MA is online. The power generated is sold to the City of Billerica under long-term contract.
- Clarendon Solar Farm LLC's 2.5 MW Clarendon Solar Farm project in Rutland County, VT is online. The power generated is sold to Vermont Electric Power Producers Inc. under long-term contract.
- Ikea Group's 2.4 MW Ikea Perryville Distribution Center Solar Expansion project in Cecil County, MD is online. The power generated is used on-site by Ikea Group.
- E.ON Climate and Renewables' 218 MW Panhandle Wind Farm Phase 1 project in Carson County, TX is online. The power generated is sold to Citigroup Energy Inc. under long-term contract.
- Spinning Spur Wind LLC's 161 MW Spinning Spur Two Wind phase 2 project in Oldham County, TX is online. The power generated is sold to Exelon Generation Co. LLC under long-term contract.

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

Primary Fuel Type	July 2014		January – July 2014 Cumulative		January – July 2013 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0	2	1,543
Natural Gas	0	0	20	2,185	58	5,277
Nuclear	0	0	0	0	0	0
Oil	0	0	3	11	10	34
Water	2	5	6	19	13	116
Wind	2	379	22	1,196	10	963
Biomass	0	0	28	87	60	181
Geothermal Steam	0	0	5	32	1	14
Solar	5	21	124	1,226	156	1,297
Waste Heat	0	0	0	0	2	76
Other	0	0	2	1	2	0
<b>Total</b>	<b>9</b>	<b>405</b>	<b>210</b>	<b>4,758</b>	<b>314</b>	<b>9,502</b>

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



## Office of Energy Projects Energy Infrastructure Update For July 2014

### Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	329.16	28.45%
Natural Gas	487.51	41.82%
Nuclear	107.41	9.24%
Oil	46.40	4.03%
Water	99.67	8.57%
Wind	61.95	5.26%
Biomass	15.94	1.37%
Geothermal Steam	3.87	0.33%
Solar	9.31	0.75%
Waste Heat	1.13	0.10%
Other	0.80	0.07%
<b>Total</b>	<b>1,163.14</b>	<b>100.00%</b>

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

### Electric Transmission Highlights

- Minnkota Power Cooperative has completed the 250 mile, 345 kV Center – Prairie Transmission Line. The \$353 million project is located in ND.

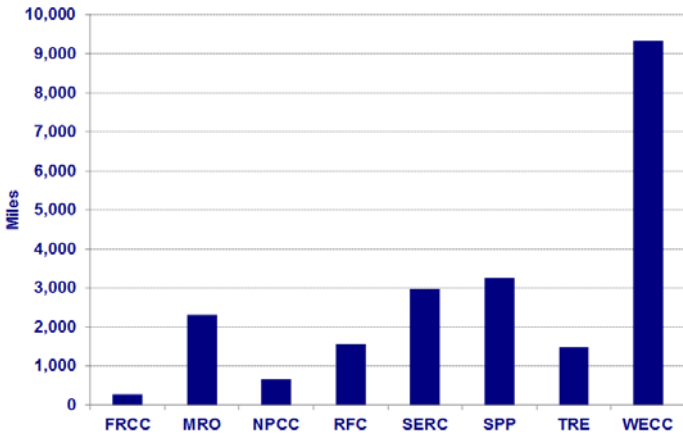
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by July 2016	
	July 2014	July 2013	January – July 2014 Cumulative	January – December 2013 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	47.0	288.0	470.2	4,236.0	7,752.0
345	250.0	228.1	669.3	2,795.2	4,972.8	7,730.4
≥500	0.0	0.0	62.0	466.0	2,326.7	6,343.0
<b>Total U.S.</b>	<b>250.0</b>	<b>275.1</b>	<b>1,019.3</b>	<b>3,731.4</b>	<b>11,535.5</b>	<b>21,825.4</b>

Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2014 The C Three Group, LLC

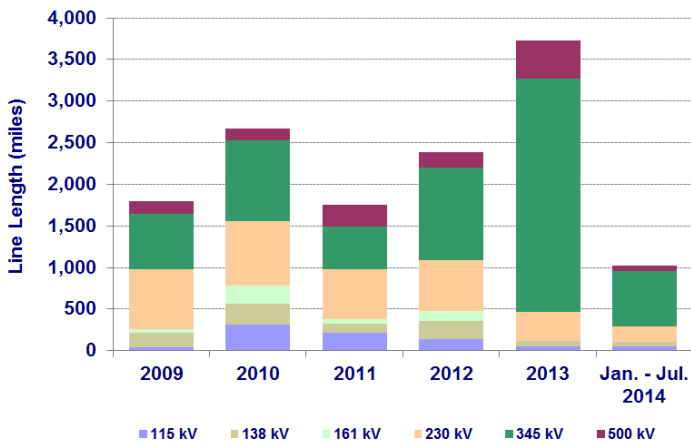
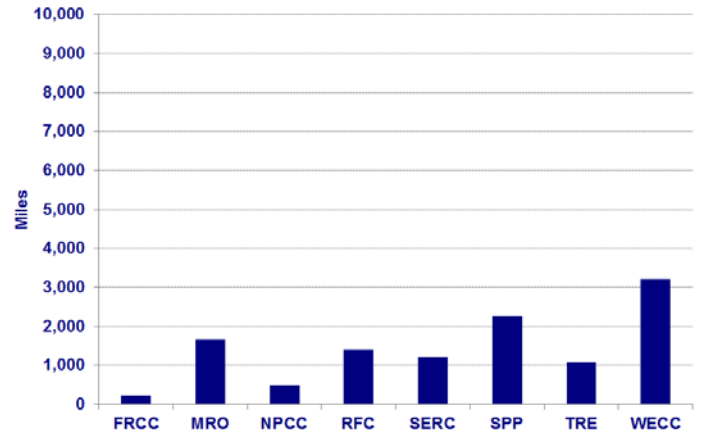


# Office of Energy Projects Energy Infrastructure Update *For July 2014*

**All Transmission Projects with a Proposed In-Service Date by July 2016**



**Transmission Projects with a High Probability of being completed by July 2016**



**Sources:** Data derived from Staff Database and U.S. Electric Transmission Projects ©2014 The C Three Group, LLC

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