

Office of Energy Projects

Energy Infrastructure Update

For January 2012

Natural Gas Highlights

- Equitrans received authorization to construct and operate its Blacksville Compressor Station Project which will provide 209 MMcf/d of additional firm transportation of Marcellus Shale to Northeastern and Mid-Atlantic markets.
- Kern River received authorization to construct and operate its Mountain Pass Lateral Project. This project will provide 24.3 MMcf/d of new capacity to Molycorp Minerals, LLC's rare earth mine located in San Bernardino County, CA.
- Golden Triangle Storage received authorization to expand its existing gas storage facility in Jefferson County, TX by constructing and operating two new salt dome caverns (3 and 4) with a total working gas capacity of 16.6 Bcf.
- Alliance filed an application to construct and operate its Tioga Lateral Project which will provide 106.5 MMcf/d of new capacity for the transportation of Bakken Shale gas from a processing plant to Alliance's system near Sherwood, ND.
- Bluewater Gas Storage filed to construct and operate a border crossing at the U.S.-Canadian border in St. Clair County, MI. to import and export 300 MMcf/d of natural gas.
- Crown Landing filed to surrender its Section 3 certificate to site, construct, and operate an LNG terminal in Gloucester County, NJ. The terminal had a proposed deliverability of 1,200 MMcf/d and a proposed storage capacity of 9.2 Bcf.

Natural Gas Activities in January 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 | | | 233.3 | 8.6 | 9,470 |
| Proposed | 2 | | | 406.5 | 79.6 | 6,000 |
| Storage | | | | | | |
| Placed in Service | 2 | 3.1 | 150 | | | 0 |
| Certificated | 2 | 17.2 | 0 | | | 0 |
| Proposed | 0 | 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 January 31, 2012

Through January 31, 2011

| 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 |
| through January 31, 2011 | 2 | | | 650.0 | 0.0 | 102,430 |
| Certificated | 2 | | | 233.3 | 8.6 | 9,470 |
| through January 31, 2011 | 1 | | | 288.0 | 0.0 | 28,700 |
| Storage | | | | | | |
| Placed in Service | 2 | 3.1 | 150 | | | 0 |
| through January 31, 2011 | 0 | 0.0 | 0 | | | 0 |
| Certificated | 2 | 17.2 | 0 | | | 0 |
| through January 31, 2011 | 0 | 0.0 | 0 | | | 0 |
| LNG | | | | | | |
| Placed in Service | 0 | 0 | 0 | | | 0 |
| through January 31, 2011 | 0 | 0 | 0 | | | 0 |
| Certificated | 0 | 0 | 0 | | | 0 |
| through January 31, 2011 | 0 | 0 | 0 | | | 0 |

Source: Staff Database

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Hydropower Highlights

- On January 5, 2012, an original license was issued to Mr. David Creasey for the proposed 0.02-MW Creasey Hydropower Project No. 13829. The project will be located on Lincoln Creek and the Lincoln Creek drainage ditch on the Fort Hall Reservation in Fort Hall, Idaho.
- On January 12, 2012, an original license was issued to Gibson Dam Hydroelectric Company for the proposed 15-MW Gibson Dam Project No. 12478. The project will be located at the U.S. Bureau of Reclamation's existing Gibson Dam on the Sun River in Lewis and Clark County and Teton County, Montana.
- On January 23, 2012, a 10-year hydrokinetic pilot project license was issued to Verdant Power, LLC for the proposed 1.05-MW Roosevelt Island Tidal Energy Project No. 12611. The project will be located in the East River in New York County, New York. Verdant prepared its license application using the Commission's hydrokinetic pilot project licensing procedures.
- On January 27, 2012, an original license was issued to Jordan Hydroelectric Limited Partnership for the proposed 3-MW Flannagan Project No. 12740. The project will be located at the U.S. Army Corps of Engineers' existing John W. Flannagan Dam and Reservoir on the Pound River near the Town of Clintwood, Dickenson County, Virginia.
- On January 5, 2012, the Silt Water Conservancy District filed 2 applications for exemption from licensing (conduit) for the 0.075 MW Harvey Gap 50 Project No. 14342 and the 0.875 MW Harvey Gap 400 Project No. 14343, located on its irrigation system in Garfield County, Colorado.
- On January 27, 2012, the San Jose Water Company filed an application for exemption from licensing (conduit) for the Hostetter Pressure Reducing Valve Hydro Project No. 14357.
- On January 10, 2012, an order granting exemption from licensing (conduit) was issued to Placer County Water Agency for the Gold Run Pipeline Project No. 14297, located in Placer County, California.
- On January 9, 2012, NextEra FPL Energy Maine LLC file an application for non capacity amendment of license for the Skelton Project No. 2527, located on the Saco River, in York County, Maine. The proposal is for the upgrade of the generator units and would result in a capacity increase of 4.8 MW.
- On January 9, 2012, an order amending license was issued to Grand River Dam Authority for the Markham Ferry Project No. 2183, located on the Grand River, in Mayes County, Oklahoma, and authorized the licensee to upgrade the units, resulting in an increase in capacity of 19.5 MW.

Hydropower Activities in January 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 | 0 | 0 | 0 | 0 |
| 5-MW Exemption | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity Amendment | 1 | 4.800 | 0 | 0 | 0 | 0 | 1 | 4.800 |
| Conduit Exemption | 3 | 1.100 | 0 | 0 | 0 | 0 | 3 | 1.100 |
| Issued | | | | | | | | |
| License | 3 | 18.020 | 0 | 0 | 1 | 1.050 | 4 | 19.070 |
| 5-MW Exemption | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity Amendment | 3 | 24.472 | 0 | 0 | 0 | 0 | 3 | 24.472 |
| Conduit Exemption | 1 | 0.300 | 0 | 0 | 0 | 0 | 1 | 0.300 |
| 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 January 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5-MW Exemption | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity Amendment | 1 | 4.800 | 0 | 0 | 0 | 0 | 1 | 4.800 |
| Conduit Exemption | 3 | 1.100 | 0 | 0 | 0 | 0 | 3 | 1.100 |
| Issued | | | | | | | | |
| License | 3 | 18.020 | 0 | 0 | 1 | 1.050 | 4 | 19.070 |
| 5-MW Exemption | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Capacity Amendment | 3 | 24.472 | 0 | 0 | 0 | 0 | 3 | 24.472 |
| Conduit Exemption | 1 | 0.300 | 0 | 0 | 0 | 0 | 1 | 0.300 |
| 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

- GenPower Holdings, L.P.'s 808 MW coal-fired Longview Plant in Madsville, West Virginia is online.
- Black Hills Corp.'s 400 MW gas-fired power plant near the Pueblo Memorial Airport in Pueblo, Colorado is online. The project consists of two power plants of equal size, one owned by Black Hills Energy-Colorado Electric and the other owned by Black Hills Colorado IPP.
- OG&E's 228 MW Crossroads Wind Farm in Dewey County, northwestern Oklahoma is online. The project consists of 95 turbines at 2.3 MW each, plus three 3-MW turbines. This project allows OG&E to provide about ten percent of its energy demand by wind generation.
- Brookville Renewables Energy Partners' 99 MW Granite Reliable Wind Project in Coos County, New Hampshire is online. The project consists of 33 Vestas V90 3-MW wind turbines. The power generated is sold to Central Vermont Public Service Company and Green Mountain Power Corp. under long term contracts.
- Exelon Wind's 90 MW Michigan Wind 2 Project in Minden City, Michigan is online. The project consists of 50 Vestas V100 1.8-MW turbines. The power generated is sold to Consumers Power Inc. under long term contract.
- Edison Mission Group's 55 MW Pinnacle Wind Farm on Green Mountain in Mineral County, near the Maryland-West Virginia border, is online. The project consists of 23 wind turbines. Two-thirds of its generation output is contracted to the Maryland Department of General Services and the remaining to the University of Maryland.
- NRJ Clean Energy Ventures' 14.1 MW McGraw-Hill Solar in the East Windsor campus, New Jersey is online.
- Fortistar and Republic Services' 6.4 MW landfill gas-to-energy plant at the Old Dominion Landfill in Richmond, Virginia is online. The power generated is contracted to Old Dominion Electric Cooperative under a long term agreement.

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New Generation In-Service (New Build and Expansion)

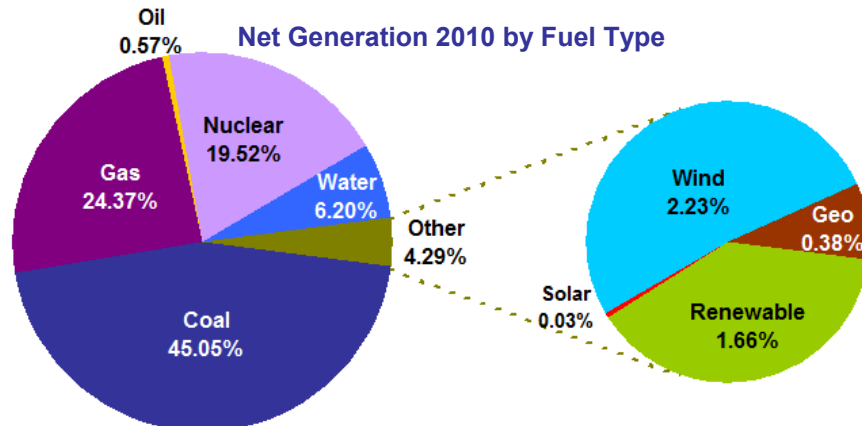
| Primary Fuel Type | January 2012 | | January 2011 | |
|-------------------|--------------|-------------------------|--------------|-------------------------|
| | No. of Units | Installed Capacity (MW) | No. of Units | Installed Capacity (MW) |
| Coal | 1 | 808 | 4 | 915 |
| Natural Gas | 4 | 400 | 5 | 154 |
| Nuclear | 0 | 0 | 0 | 0 |
| Oil | 2 | 3 | 1 | 3 |
| Water | 0 | 0 | 4 | 1 |
| Wind | 8 | 476 | 11 | 519 |
| Biomass | 4 | 6 | 20 | 98 |
| Geothermal Steam | 0 | 0 | 0 | 0 |
| Solar | 14 | 64 | 17 | 50 |
| Waste Heat | 0 | 0 | 1 | 135 |
| Other | 0 | 0 | 5 | 8 |
| Total | 33 | 1,756 | 68 | 1,882 |

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

Total Installed Operating Generating Capacity

| Primary Fuel Type | Installed Capacity (GW) | % of Total Capacity |
|-------------------|-------------------------|---------------------|
| Coal | 343.76 | 29.91% |
| Natural Gas | 478.06 | 41.60% |
| Nuclear | 108.53 | 9.44% |
| Oil | 52.94 | 4.61% |
| Water | 99.68 | 8.67% |
| Wind | 45.13 | 3.93% |
| Biomass | 13.65 | 1.19% |
| Geothermal Steam | 3.42 | 0.30% |
| Solar | 1.99 | 0.17% |
| Waste Heat | 0.97 | 0.08% |
| Other | 1.04 | 0.09% |
| Total | 1,149.18 | 100.00% |

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



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

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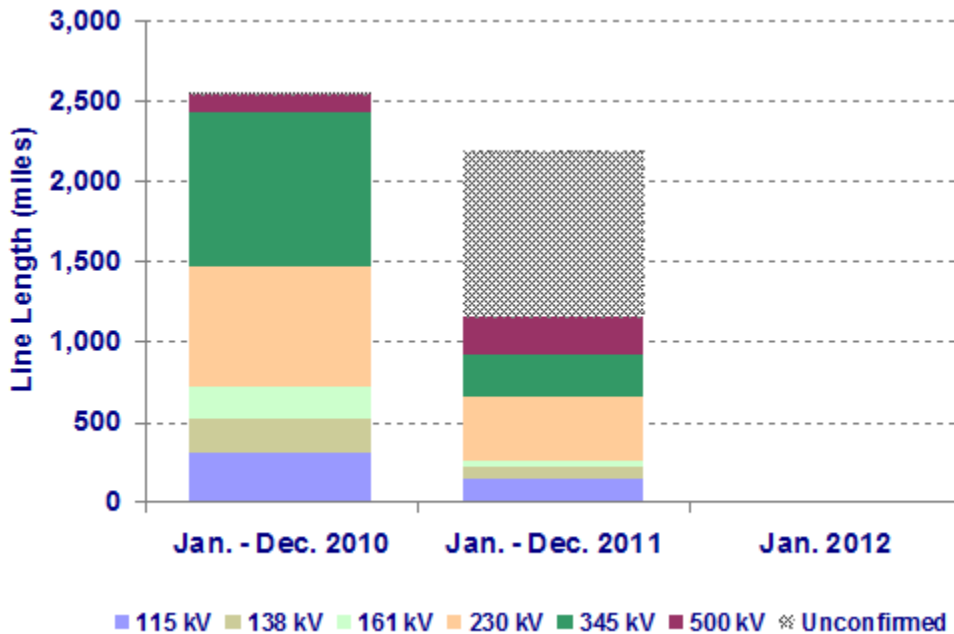
For January 2012

Electric Transmission Highlights

- On January 16, the Electric Reliability Council of Texas, (ERCOT) announced approximately \$8.7 billion in transmission improvements planned for the next five years. The planned projects will add 7,000 circuit miles of transmission lines including the Competitive Renewable Energy Zones (CREZ) transmission additions that are scheduled to be in service by 2013.
- On January 25, the Virginia State Corporation Commission has approved Dominion Virginia Power's request to build a \$64.1 million, 43-mile, 230-kV transmission line from the Dooks substation to the Bremo substation. The transmission project would replace the existing 115-kV line with a 230-kV line and would not require the use of new right-of-ways. The project will help to support expansion of the Transcontinental Gas Pipe Line Co. LLC and to help meet the growing demand in the area. It is expected to be completed in 2014.
- On January 29, the 32 mile, 345 kV Rockdale-West Middleton transmission project located in Wisconsin, installed transmission towers in the Yahara marsh, an environmental sensitivities area, utilizing helicopters. It marked the completion of the most controversial phase of the project. The project is on schedule to be completed in 2013.

| Voltage (kV) | Transmission Projects Completed | | | | Proposed Transmission Projects In-Service by January 2014 | |
|--------------|---------------------------------|--------------|------------------------------------|-----------------------------------|---|----------|
| | January 2012 | January 2011 | January – December 2011 Cumulative | January –December 2010 Cumulative | High Probability of Completion | All |
| | Line Length (miles) | | | | | |
| ≤230 | 0 | 133.1 | 657.7 | 1,470.6 | 3,366.0 | 6,205.9 |
| 345 | 0 | 0 | 254.2 | 948.3 | 8,034.3 | 9,963.7 |
| 500 | 0 | 0 | 236.0 | 112.0 | 2,099.7 | 7,353.0 |
| Total U.S. | 0 | 133.1 | 1,147.9 | 2,530.9 | 13,500.0 | 23,522.6 |

**Completed Transmission Projects
As of January 31, 2012**



Note: In 2010, approximately 18 miles of transmission projects have not been confirmed as placed into service. In 2011, approximately 1,035 miles have been unconfirmed.

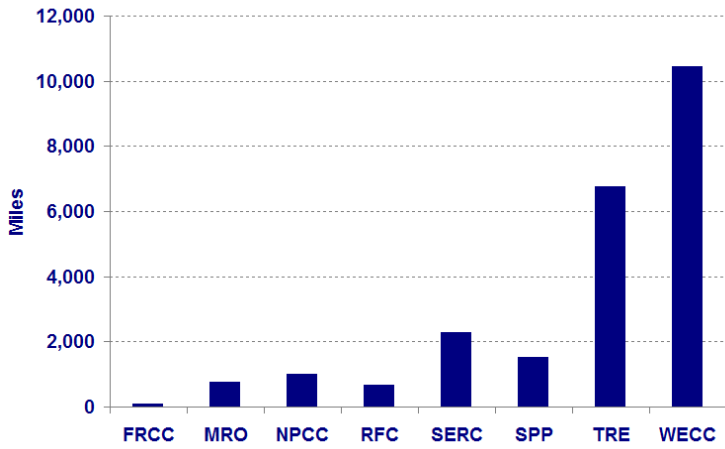
Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2011 The C Three Group, LLC

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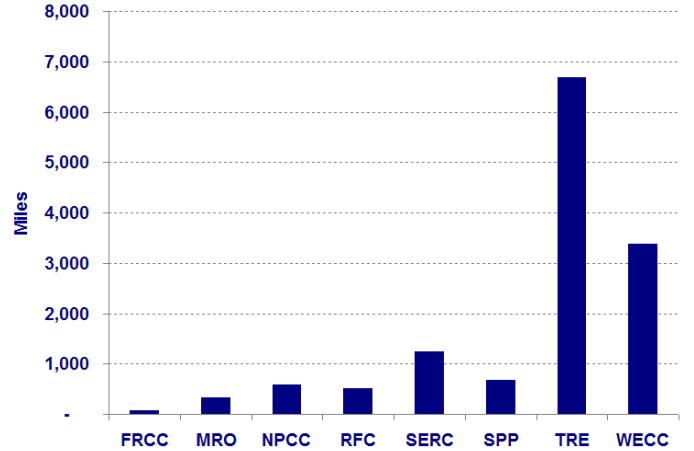
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All Transmission Projects with a Proposed In-Service Date by January 2014



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



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2011 The C Three Group, LLC

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