For May 2011

Natural Gas Highlights

- Denali withdrew its pre-filing request to construct and operate an Alaska pipeline due to lack of customer support needed to continue advancing the project.
- Golden Pass placed into service the Phase II facilities to its LNG terminal near Sabine Pass, Texas. The Phase II facilities will increase the sendout capacity of the terminal by 1 Bcf/d to 2 Bcf/d.
- Questar received authorization to construct and operate its ML104 Extension Project which will provide 160 MMcf/d of additional capacity for transportation of Uintah Basin gas in Utah.
- Empire received authorization to construct and operate its Tioga Expansion Project which will provide 350 MMcf/d of additional capacity for the transportation of Marcellus Shale gas in Tioga County, Pennsylvania.
- Pine Prairie received authorization to expand the working gas capacity in its Pine Prairie Energy Center, salt dome storage facility in Southern Louisiana from 48 Bcf to 80 Bcf.
- Columbia Gas filed an application to construct and operate facilities necessary to transport 246 MMcf/d of gas to Virginia Electric and Power Company's planned 1,329 MW generation facilities in Warren County, Virginia.

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline					-	
Placed in Service	2			635.0	61.8	40,310
Certificated	2			510.0	41.0	0
Proposed	1			246.0	2.5	0
Storage						
Placed in Service	2	3.3	5			0
Certificated	2	34.1	605			11,500
Proposed	0	0.0	0			0
LNG						
Placed in Service	1	6.56	1,000			0
Certificated	0	0	0			0
Proposed	0	0	0			0

Natural Cas Activities in May 2014

Source: Staff Database

Natural Gas Activities through May 31, 2011

Throug	gh May	y 31, 2	2010
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Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through May 31, 2010	10 8			6,038.5 <mark>4,600.2</mark>	723.4 209.3	431,045 <mark>123,005</mark>
Certificated through May 31, 2010	4 10			1,198.0 <mark>5,715.5</mark>	61.5 <mark>1,405.5</mark>	59,265 <mark>431,274</mark>
Storage						
Placed in Service through May 31, 2010	5 4	15.3 28.8	2,545 <mark>903</mark>			6,283 0
Certificated through May 31, 2010	6 6	103.3 <mark>43.9</mark>	2,720 <mark>640</mark>			58,710 <mark>15,783</mark>
LNG						
Placed in Service through May 31, 2010	1 0	16.4 0	2,000 0			0 0
Certificated through May 31, 2010	0 0	0 0	0 0			0 0

Source: Staff Database

For May 2011

Hydropower Highlights

- On May 18, 2011, DHL staff issued a new license for the City of Kaukauna, Wisconsin's (Kaukauna) 9.4-MW Badger-Rapide Croche Hydroelectric Project No. 2677. The project is located at the U.S. Army Corps of Engineers' Kaukauna (Badger Development) and Rapide Croche (Rapide Croche Development) dams on the Fox River in Outagamie County, Wisconsin. The license authorizes Kaukauna to decommission the old Badger powerhouse and construct a new Badger powerhouse increasing the installed capacity from 8 MWs to 9.4 MWs.
- On May 9, 2011, Konohiki Hydro Power LLC filed a conduit exemption application for the proposed 5.3-MW Puu Lua Project located in Kauai County, Hawaii, and the project would generate 32.49 GWh annually.

	Conventional		Pumped Storage		Hydrokinetic		Total No.	Total	
Status									
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)	of Projects	(MW)	
Filed	Filed								
License	0	0	0	0	0	0	0	0	
5-MW Exemption	0	0	0	0	0	0	0	0	
Capacity Amendment	1	0.170	0	0	0	0	1	0.170	
Conduit Exemption	1	5.300	0	0	0	0	1	5.300	
Issued	Issued								
License	1	1.400	0	0	0	0	1	1.400	
5-MW Exemption	0	0	0	0	0	0	0	0	
Capacity Amendment	1	1.800	0	0	0	0	1	1.800	
Conduit Exemption	1	1.300	0	0	0	0	1	1.300	
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	

Hydropower Activities in May 2011

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

	Conventional		Pumped Storage		Hydrokinetic		Total No	Total
Status	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)	of Projects	Capacity (MW)
Filed								
License	8	258.4225	0	0	0	0	8	258.4225
5-MW Exemption	4	1.346	0	0	0	0	4	1.346
Capacity Amendment	5	20.440	0	0	0	0	5	20.440
Conduit Exemption	2	5.375	0	0	0	0	2	5.375
Issued								
License	4	47.790	0	0	0	0	4	47.790
5-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	7	14.418	0	0	0	0	7	14.418
Conduit Exemption	3	1.650	0	0	0	0	3	1.650
Placed in Service								
License	0	0	0	0	0	0	0	0
5-MW Exemption	1	0.065	0	0	0	0	1	0.065
Capacity Amendment	1	3.000	0	0	0	0	1	3.000
Conduit Exemption	3	1.340	0	0	0	0	3	1.340

Source: Staff Database

For May 2011

Electric Generation Highlights

- Ormat Technologies has brought its 15-MW Jersey Valley Geothermal Project in Nevada online. According to NV Energy, its geothermal projects provide 60 percent of the state's renewable energy.
- Whelan Energy Center Unit 2 (WEC2), the 220-MW coal-fired generating facility near Hasting, Nebraska is in commercial operation. WEC2 is owned and operated by the Public Power Generation Agency, which consists of five public utilities in Nebraska and South Dakota.
- TransCanada Corp's announced the completion of 726-MW natural gas-fired Coolidge Generating Station in Coolidge, Arizona. Salt River Project has signed a 20-year power purchase agreement to purchase all power from the 12 turbine facility.
- NV Energy's 484-MW gas-fired combined cycle Harry Allen Expansion is online. With this, NV Energy now owns nearly 80 percent of the generation necessary to meet Southern Nevada's power needs.
- Dominion Virginia Power's 580-MW Bear Garden Power Station in central Virginia began commercial operation. The station features two combustion turbine units fired by natural gas with oil as a backup fuel. Bear Garden will produce enough electricity to power 146,000 homes.
- The Berkshire Wind Power Project, Massachusetts' largest wind farm, came online. The 15-MW wind farm is atop of Brodie Mountain and is rated a Class 6 wind resource. Berkshire Wind is expected to operate at a 40 percent capacity factor to produce enough electricity to power 6,000 homes in 14 Massachusetts municipalities.
- E Light Wind and Solar, Inc.'s 6-MW photovoltaic system at the U.S. Air Force Academy in Colorado Springs, Colorado came online. This project consists of 18,888 solar panels on a 30-acre site.
- Montauk Energy's 3.2-MW landfill gas-to-energy project in McKinney, northeast of Dallas, Texas came online. This project involves capturing, piping and combustion of methane produced at the 65-acre landfill site. Raytheon Company is acquiring the electricity from the McKinney Landfill to power five of its North Texas facilities.
- According to IHS CERA, of the total installed coal-fired generation totaling 316 GW, 8.9 GW (3 percent of the fleet) are committed to retire by 2020, 5.9 GW of which are set to retire by 2015. Another 8.5 GW (3 percent of the fleet) have been proposed to retire by 2020, 5.0 GW of which by 2015. The South and the Northeast regions have the majority of the announced retirements, with 8.0 GW and 5.2 GW respectively.

	May 2011		Janua C	ary – May 2011 Sumulative	January – May 2010 Cumulative	
Primary Fuel Type	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	5	220	8	835	18	4,812
Natural Gas	14	1,790	29	3,673	43	2,538
Nuclear	0	0	0	0	0	0
Oil	0	0	0	0	3	5
Water	0	0	5	4	10	19
Wind	1	1	39	1,619	30	1,340
Biomass	7	7	31	80	39	113
Geothermal Steam	1	15	2	23	0	0
Solar	6	13	52	136	16	29
Waste Heat	0	0	7	135	2	20
Other	0	0	0	0	0	0
Total	34	2,060	173	6,504	161	8,875

New Generation In-Service (New Build and Expansion)

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

For May 2011

Primary Fuel Type	Installed Capacity (GW)	% of Total Capacity
Coal	343.79	30.29%
Natural Gas	472.29	41.61%
Nuclear	105.09	9.26%
Oil	52.65	4.64%
Water	99.14	8.74%
Wind	41.86	3.69%
Biomass	13.44	1.18%
Geothermal Steam	3.39	0.30%
Solar	1.27	0.11%
Waste Heat	0.96	0.08%
Other	1.02	0.09%
Total	1,134.89	100.00%

Total Installed Operating Generation Capacity

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

Electric Transmission Highlights

- Alstom has been awarded a contract by Tres Amigas LLC to design the DC converter technology for their substation in New Mexico. The Tres Amigas project will be designed to move renewable energy from the Western Interconnection to the Eastern Interconnection via the Southwest Power Pool Inc. and the Electric Reliability Council of Texas (ERCOT). The project will be built in two phases. The first phase will connect the Eastern Interconnection and the Western Interconnection and the second phase will link in ERCOT. The project is expected to be completed by the end of 2014.
- On May 11, the Brattle Group released a report that estimated the U.S. transmission investment will range between \$12 billion and \$16 billion annually through 2030. The report also noted an increase in transmission investments over the past decade due in part to reliability needs and the replacement or upgrading of aging facilities.
- The final segments of the 500kV Trans-Allegheny Interstate Line (TrAIL) has been completed and energized. TrAIL crosses Southwestern Pennsylvania, northern West Virginia and Northern Virginia. The \$960 million project was completed ahead of schedule.
- On May 31, the North American Electric Reliability Corporation (NERC) released its 2011 Summer Reliability
 Assessment. The NERC regions are not expecting any significant transmission outages during the summer and
 expect to have enough transmission capacity to handle temporary outage.

	Transmission Pr	ojects Completed	Proposed Transmission Projects In-Service by May 2013					
Voltage (kV)	May 2011	May 2010	High Probability of Completion	All				
	Line Length (miles)							
≤230	75.0	155.3	3,302.0	5,824.0				
345	82.0	25.0	3,718.2	5,183.3				
500	169.3	0	1,342.3	4,607.0				
Total U.S.	326.3	180.3	8,362.5	15,614.3				

For May 2011



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.