For June 2011

### **Natural Gas Highlights**

- Weaver's Cove LNG and Mill River Pipeline filed to surrender their certificates to construct and operate the LNG terminal and associated pipeline near Fall River, MA. (The Commission vacated the authorizations on July 6, 2011.)
- TETCO placed into service its Hot Spring Lateral Project. These pipeline lateral facilities will enable TETCO to provide 112 MMcf/d of transportation to KGen Hot Springs LLC's energy facility in Hot Springs County, Arkansas.
- Dominion received authorization to construct and operate its Appalachian Gateway Project which will provide 484 MMcf/d of additional capacity for the transportation of gas from supply areas in West Virginia and Pennsylvania.
- Duke Energy received authorization to construct and operate its Gallagher Station Pipeline Project which will provide 134 MMcf/d of gas to R. Gallagher Generating Station in Floyd County, Indiana.
- Wabash Gas Storage commenced the Commission's pre-filing process to redevelop a currently abandoned aquifer gas storage facility in Edgar County, Illinois with a working gas capacity of 14 Bcf.
- Alliance commenced the Commission's pre-filing process to construct and operate a 77 mile lateral to transport 120 MMcf/d of natural gas produced in association with oil production in the Bakken Shale region in North Dakota.

#### **Natural Gas Activities in June 2011**

| Status            | No. of<br>Projects | Storage<br>Capacity<br>(Bcf) | Deliverability<br>(MMcf/d) | Capacity<br>(MMcf/d) | Miles of<br>Pipeline | Compression<br>(HP) |
|-------------------|--------------------|------------------------------|----------------------------|----------------------|----------------------|---------------------|
| Pipeline          |                    |                              |                            |                      |                      |                     |
| Placed in Service | 2                  |                              |                            | 166.0                | 8.4                  | 0                   |
| Certificated      | 2                  |                              |                            | 618.7                | 126.8                | 17,965              |
| Proposed          | 1                  |                              |                            | 120.0                | 77.0                 | 4,500               |
| Storage           |                    |                              |                            |                      |                      |                     |
| Placed in Service | 0                  | 0.0                          | 0                          |                      |                      | 0                   |
| Certificated      | 0                  | 0.0                          | 0                          |                      |                      | 0                   |
| Proposed          | 1                  | 14.0                         | 200                        |                      |                      | 14,000              |
| 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 June 30, 2011

### Through June 30, 2010

| inrough June 30, 2010                   |                    |                              |                            |                      |                      |                             |  |  |
|---|--------------------|------------------------------|----------------------------|----------------------|----------------------|-----------------------------|--|--|
| Status                                  | No. of<br>Projects | Storage<br>Capacity<br>(Bcf) | Deliverability<br>(MMcf/d) | Capacity<br>(MMcf/d) | Miles of<br>Pipeline | Compression<br>(HP)         |  |  |
| Pipeline                                |                    |                              |                            |                      |                      |                             |  |  |
| Placed in Service through June 30, 2010 | 12<br>10           |                              |                            | 6,204.5<br>5,090.2   | 731.8<br>225.4       | 431,045<br>140,905          |  |  |
| Certificated through June 30, 2010      | 6<br>11            |                              |                            | 1,816.7<br>6,000.5   | 188.3<br>1,407.9     | 77,230<br>431,274           |  |  |
| Storage                                 |                    |                              |                            |                      |                      |                             |  |  |
| Placed in Service through June 30, 2010 | 5<br>6             | 15.3<br>43.9                 | 2,545<br>1,011             |                      |                      | 6,283<br><mark>8,180</mark> |  |  |
| Certificated through June 30, 2010      | 6<br>7             | 103.3<br>49.0                | 2,720<br>648               |                      |                      | 58,710<br>15,783            |  |  |
| LNG                                     |                    |                              |                            |                      | _                    |                             |  |  |
| Placed in Service through June 30, 2010 | 1<br>1             | 16.4<br>4.22                 | 2,000<br>400               |                      |                      | 0<br>0                      |  |  |
| Certificated through June 30, 2010      | 0<br>0             | 0<br>0                       | 0<br>0                     |                      |                      | 0<br>0                      |  |  |

Source: Staff Database

For June 2011

### **Hydropower Highlights**

- On June 15, 2011, Turnbull Hydro, LLC, of Idaho Falls, Idaho brought on line the Upper Turnbull Project, FERC
   No. 12597. The project is located on the Spring Valley Canal in Teton County, Montana, and contains a single unit rated at 7.7 MW. This project was one year in construction.
- On June 27, 2011, DHAC issued to City of Frostburg, Maryland (exemptee) an order granting exemption from licensing (conduit) for the 0.075-MW Frostburg Low Head Hydroelectric Project (FERC No. 14059), located on the City of Frostburg's municipal raw water supply line in Alleghany County, Maryland. The project would generate 240 Megawatt-hours annually.

**Hydropower Activities in June 2011** 

| Status             | Cor               | Conventional     |     | Pumped Storage   |     | rokinetic        | Total No.   | Total            |
|--------------------|-------------------|------------------|-----|------------------|-----|------------------|-------------|------------------|
|                    | No.               | Capacity<br>(MW) | No. | Capacity<br>(MW) | No. | Capacity<br>(MW) | of Projects | Capacity<br>(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                 | 4.310            | 0   | 0                | 0   | 0                | 1           | 4.310            |
| Conduit Exemption  | 2                 | 0.571            | 0   | 0                | 0   | 0                | 2           | 0.571            |
| Issued             | Issued            |                  |     |                  |     |                  |             |                  |
| License            | 0                 | 0                | 0   | 0                | 0   | 0                | 0           | 0                |
| 5-MW Exemption     | 0                 | 0                | 0   | 0                | 0   | 0                | 0           | 0                |
| Capacity Amendment | 1                 | 12.612           | 0   | 0                | 0   | 0                | 1           | 12.612           |
| Conduit Exemption  | 1                 | 0.075            | 0   | 0                | 0   | 0                | 1           | 0.075            |
| Placed in Service  | Placed in Service |                  |     |                  |     |                  |             |                  |
| License            | 1                 | 7.700            | 0   | 0                | 0   | 0                | 1           | 7.700            |
| 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 June 30, 2011)

|                    | Cor               | nventional       | Pump | Pumped Storage Hydrokinetic |     | Total No.        | Total       |                  |
|--------------------|-------------------|------------------|------|-----------------------------|-----|------------------|-------------|------------------|
| Status             | No.               | Capacity<br>(MW) | No.  | Capacity<br>(MW)            | No. | Capacity<br>(MW) | of Projects | Capacity<br>(MW) |
| Filed              |                   |                  |      |                             |     |                  |             |                  |
| License            | 8                 | 258.423          | 0    | 0                           | 0   | 0                | 8           | 258.423          |
| 5-MW Exemption     | 4                 | 1.346            | 0    | 0                           | 0   | 0                | 4           | 1.346            |
| Capacity Amendment | 6                 | 24.750           | 0    | 0                           | 0   | 0                | 6           | 24.750           |
| Conduit Exemption  | 4                 | 5.946            | 0    | 0                           | 0   | 0                | 4           | 5.946            |
| 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 | 8                 | 27.030           | 0    | 0                           | 0   | 0                | 8           | 27.030           |
| Conduit Exemption  | 4                 | 1.725            | 0    | 0                           | 0   | 0                | 4           | 1.725            |
| Placed in Service  | Placed in Service |                  |      |                             |     |                  |             |                  |
| License            | 1                 | 7.700            | 0    | 0                           | 0   | 0                | 1           | 7.700            |
| 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 June 2011

### **Electric Generation Highlights**

- Associated Electric Cooperative's 533-MW Chouteau 2 combined-cycle natural gas-fired power plant began
  commercial operation. Chouteau 2 is a capacity expansion of the existing Chouteau plant in Pryor, Oklahoma. A 33mile gas pipeline was constructed by Engex, LLC to provide gas delivery for the plant.
- Progress Energy Carolinas's 570-MW Power Block 5 at the Richmond County Energy Complex in North Carolina began commercial operation. The \$600 million project included a 64-mile 230-kV transmission line. Power Block 5 is a combined-cycle dual fuel unit primarily using natural gas. With the new Power Block 5 online, Progress Energy will shut its 170-MW W.H. Weatherspoon coal-fired plant this fall, six years ahead of the original schedule.
- GenConn Energy's 200-MW peaking power plant at NRG's Middletown Station in Connecticut came online. The new Middletown plant comprises of four 50-MW natural gas turbines that can be fully operational within ten minutes.
- Marshfield Utilities' 60-MW natural gas-fired peaking plant in the City of Marshfield, Wisconsin came online. Cleco Power LLC's 33-MW natural gas-fired peaker Teche Unit 4 at Teche Power Station in Baldwin, Louisiana came online. Teche Unit 4 is a blackstart generating unit which enables the company to restore its generation system quickly in the event of a total system shutdown.
- Southern California Edison's solar projects, Photon Ontario 1-3, Photon Rancho Cucamunga 1-3 and Twentynine Palms came online. These new rooftop and ground-mount solar projects total 7.88 MW, serving the utility's Inland Empire customers in Redlands and Fontana, California.
- Next Era Energy's 5.1-MW Paradise Solar Energy Center in West Deptford, New Jersey came online. Paradise Solar
  consists of 26,200 panels sited on 160 acres of private land, with only 35 acres used for power generating facilities,
  can provide 8,000 MWh of electricity enough to power 700 homes.
- Beacon Power Corporation announced that its first flywheel energy storage plant in Stephentown, New York is in full operation. The 20-MW facility is the world's first grid-scale flywheel energy storage. It consists of 200 high-speed Beacon flywheels to provide fast-response frequency regulation services to the New York electricity grid.

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

| New Generation in-General And and Expansion) |                 |                            |                 |                              |                                   |                            |  |  |
|--|-----------------|----------------------------|-----------------|------------------------------|-----------------------------------|----------------------------|--|--|
|  |                 | June 2011                  |                 | ry – June 2011<br>Sumulative | January – June 2010<br>Cumulative |                            |  |  |
| Primary Fuel Type                            | No. of<br>Units | Installed Capacity<br>(MW) | No. of<br>Units | Installed Capacity<br>(MW)   | No. of<br>Units                   | Installed Capacity<br>(MW) |  |  |
| Coal   | 0               | 0                          | 8               | 835                          | 18                                | 4,812                      |  |  |
| Natural Gas                                  | 8               | 1,396                      | 37              | 5,069                        | 57                                | 4,164                      |  |  |
| Nuclear                                      | 0               | 0                          | 0               | 0                            | 0                                 | 0                          |  |  |
| Oil  | 0               | 0                          | 0               | 0                            | 3                                 | 5                          |  |  |
| Water  | 0               | 0                          | 5               | 4                            | 10                                | 19                         |  |  |
| Wind   | 0               | 0                          | 45              | 2,435                        | 33                                | 1,372                      |  |  |
| Biomass                                      | 6               | 7                          | 35              | 85                           | 43                                | 244                        |  |  |
| Geothermal Steam                             | 0               | 0                          | 2               | 23                           | 0                                 | 0                          |  |  |
| Solar  | 14              | 19                         | 74              | 169                          | 25                                | 66                         |  |  |
| Waste Heat                                   | 0               | 0                          | 1               | 135                          | 2                                 | 19                         |  |  |
| Other  | 2               | 12                         | 9               | 20                           | 0                                 | 0                          |  |  |
| Total  | 30              | 1,435                      | 216             | 8,775                        | 191                               | 10,703                     |  |  |

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

For June 2011

#### **Total Installed Operating Generation Capacity**

| Primary Fuel Type | Installed Capacity (GW) | % of Total Capacity |
|-------------------|-------------------------|---------------------|
| Coal              | 343.61                  | 30.13%              |
| Natural Gas       | 473.65                  | 41.54%              |
| Nuclear           | 108.68                  | 9.53%               |
| Oil               | 52.56                   | 4.61%               |
| Water             | 99.14                   | 8.69%               |
| Wind              | 42.49                   | 3.73%               |
| Biomass           | 13.46                   | 1.18%               |
| Geothermal Steam  | 3.40                    | 0.30%               |
| Solar             | 1.31                    | 0.11%               |
| Waste Heat        | 0.96                    | 0.08%               |
| Other             | 1.04                    | 0.09%               |
| Total             | 1,140.29                | 100.00%             |

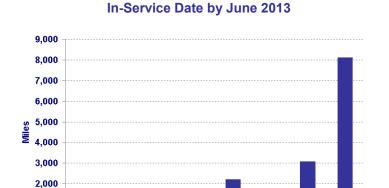
Source: Data derived from Ventyx Global LLC, Velocity Suite.

### **Electric Transmission Highlights**

- On June 7, the Montana Supreme Court reversed a lower court's decision refusing eminent domain power to Tonbridge Power Inc., the private developer of the Montana Alberta Tie transmission project. The 230-kV, 214-mile electric transmission project will connect the Montana and Alberta markets.
- Pioneer Transmission LLC, a joint venture between Duke Energy Corp. and American Electric Power Co., plans to build a 55-mile, 765-kV transmission line in partnership with Tennessee Valley Authority (TVA). The proposed transmission line will connect Rockport, Indiana to the TVA Paradise Station in Drakesboro, Kentucky. It is estimated to cost \$275 million and will be the highest voltage transmission project in TVA's System.

|              | Transmission Pro    | ojects Completed | Proposed Transmission Projects<br>In-Service by June 2013 |          |  |  |  |
|--------------|---------------------|------------------|---|----------|--|--|--|
| Voltage (kV) | June 2011           | June 2010        | High Probability of<br>Completion                         | All      |  |  |  |
|              | Line Length (miles) |                  |   |          |  |  |  |
| ≤230         | 65.5                | 370.4            | 3,144.7   | 5,853.4  |  |  |  |
| 345          | 0                   | 231.3            | 4,322.8   | 5,741.4  |  |  |  |
| 500          | 0                   | 81.0             | 1,706.8   | 5,930.5  |  |  |  |
| Total U.S.   | 65.5                | 682.7            | 9,174.3   | 17,525.3 |  |  |  |

For June 2011

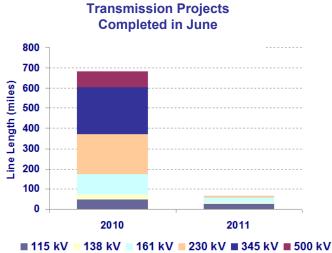


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**Transmission Projects with a Proposed** 



**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.

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