



# Infrastructure Update

*Office of Energy Projects*

*February 23, 2017*

# Agency Overview

- Independent regulatory agency
- Quasi-judicial agency
- Regulates the rates for interstate transmission of electricity, natural gas, and oil
- Reviews applications for interstate natural gas pipelines, gas storage, LNG, and non-federal hydropower facilities



# Commissioners



ACTING CHAIRMAN  
CHERYL LAFLEUR

*July 2010 - June 2019*



COMMISSIONER COLETTE  
HONORABLE

*January 2015 - June 2017*



COMMISSIONER



COMMISSIONER



COMMISSIONER

# Office of Energy Projects

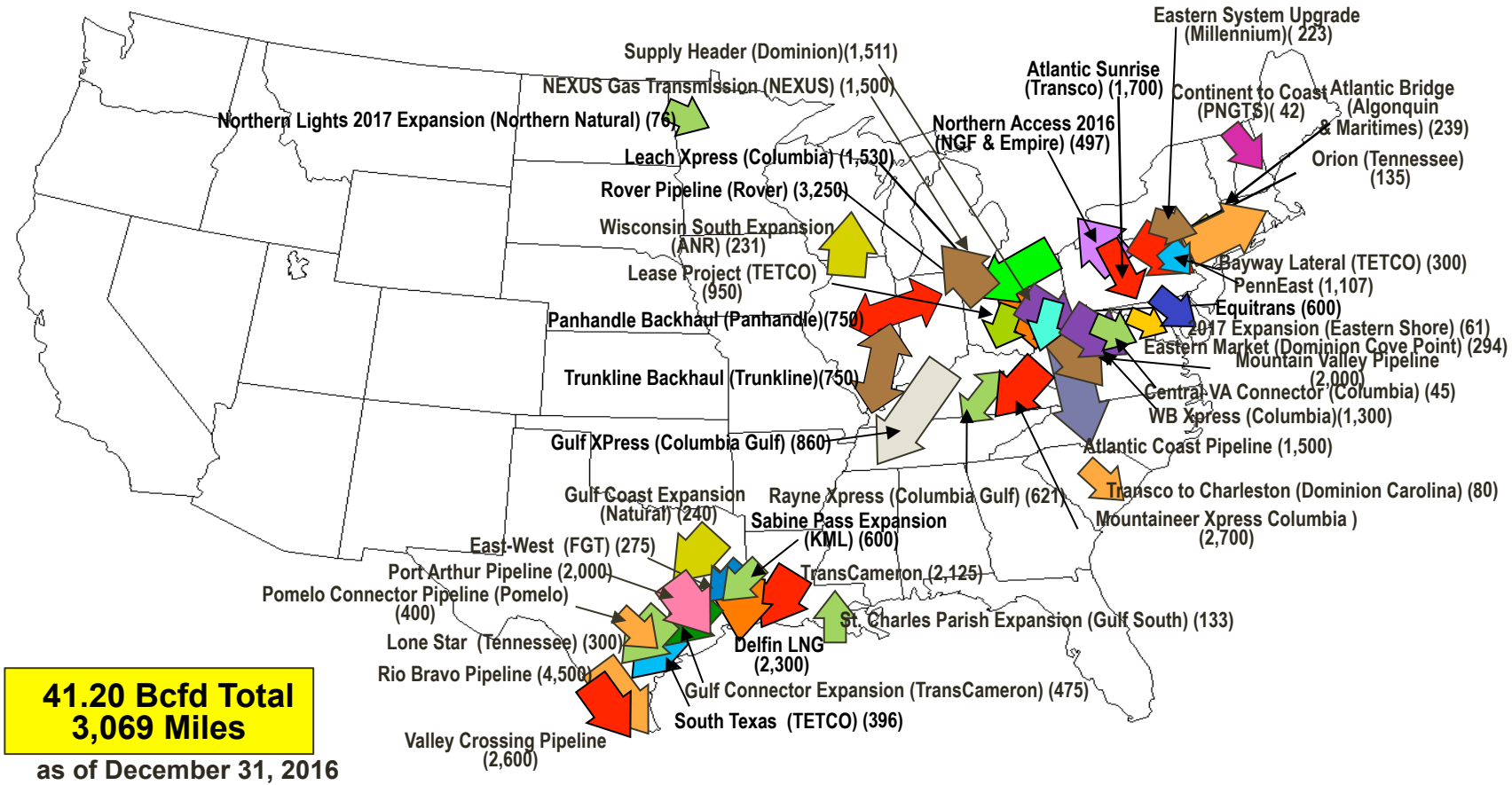
- Provide the Commission with recommendations regarding applications for jurisdictional hydroelectric and natural gas projects
  - Perform engineering and environmental review of projects
  - Issue environmental documents as required by NEPA
  - Consult with federal and state agencies, tribes, NGOs, and the public (stakeholders)
  - Conduct field inspections
- Staff of archeologists, biologists, geologists, engineers, environmental protection specialists, and recreation planners



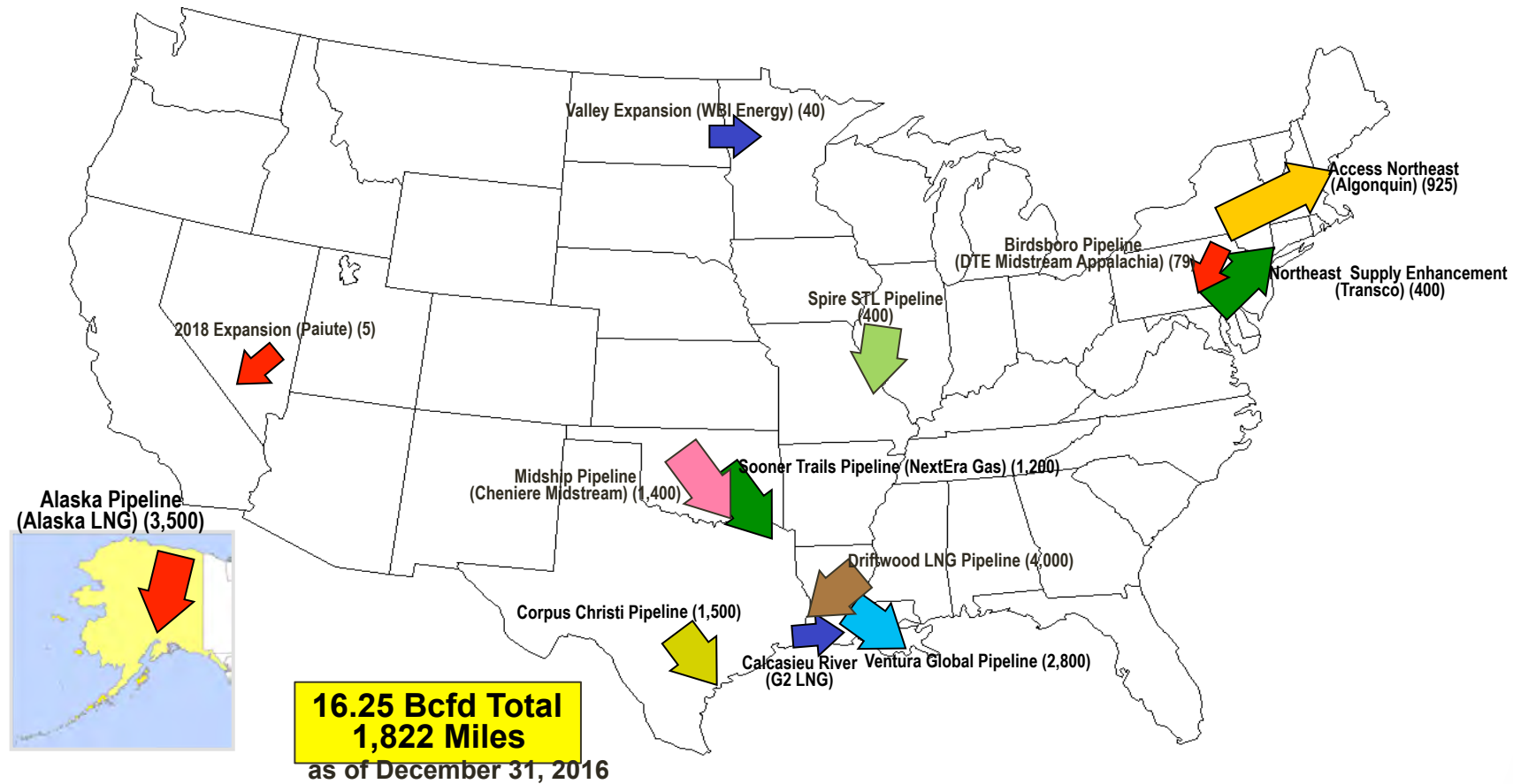
# Major Pipeline Project Approvals

	# Projects	Capacity Bcfd	Miles of Pipeline	Compression HP
<b>2007</b>	30	23.0	2,727	849,110
<b>2008</b>	25	16.3	2,142	648,838
<b>2009</b>	27	14.1	1,276	748,749
<b>2010</b>	21	9.1	1,569	501,694
<b>2011</b>	16	4.2	323	280,255
<b>2012</b>	18	4.4	193	145,920
<b>2013</b>	17	7.3	263	185,011
<b>2014</b>	20	11.0	419	473,220
<b>2015</b>	25	14.5	322	477,897
<b>2016</b>	33	17.6	1,014	1,393,340

# Pipeline Projects Pending



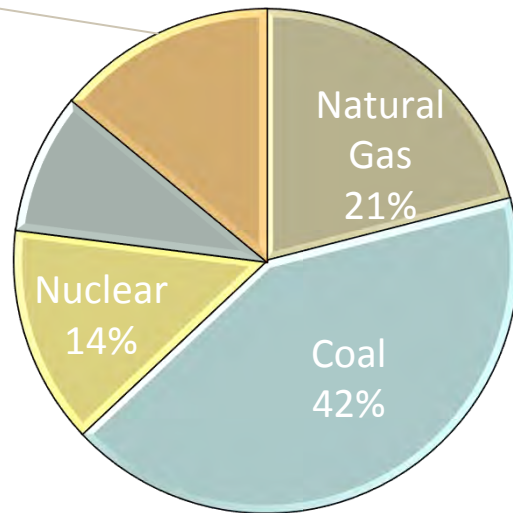
# Pipeline Projects Pre-Filing



# Historical Changes in Fuel Mix

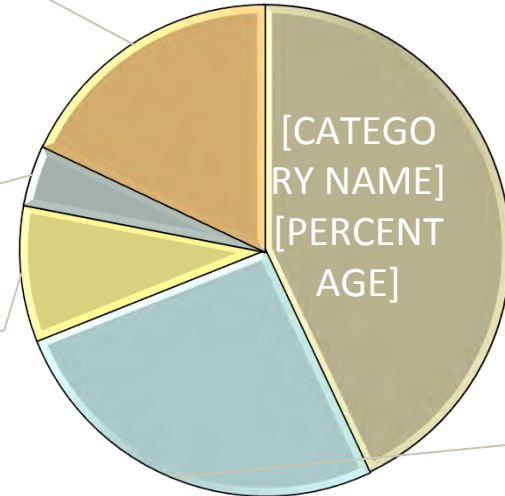
**1990 Total Generating Capacity**  
**794 GW**

[CATEGORY NAME]  
[PERCENTAGE]



**2015 Total Generating Capacity**  
**1,183 GW**

Renewable  
18%  
Oil  
4%  
Nuclear  
9%

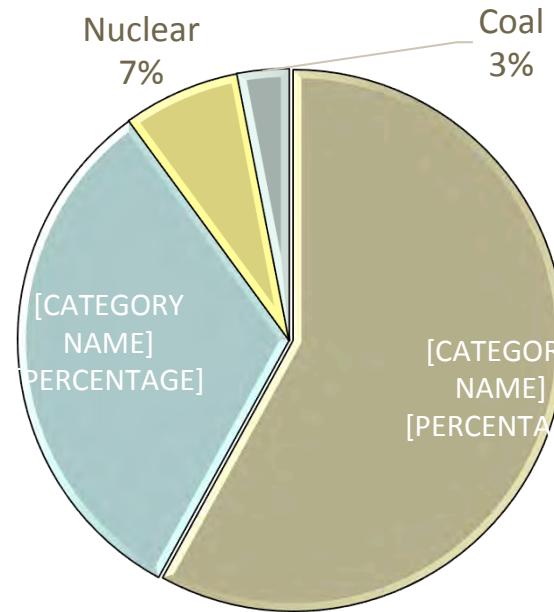


Source: Based on data derived from Velocity Suite, an ABB company, October 2016.



# Future Changes in Fuel Mix

- In next five years, 90,650 MW of new generation expected



Gas	52,577 MW
Renewables	29,008 MW
Nuclear	6,346 MW
Coal	2,720 MW
<b>Total</b>	<b>90,650 MW</b>

*69% Wind*  
*25% Solar*  
*3% Water*  
*3% Other Renewables*

# Thank You!

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