



**Access Northeast:**  
*Meeting New England's Energy Needs*

Nashua Regional Planning Commission  
May 15, 2015



*project developers:*



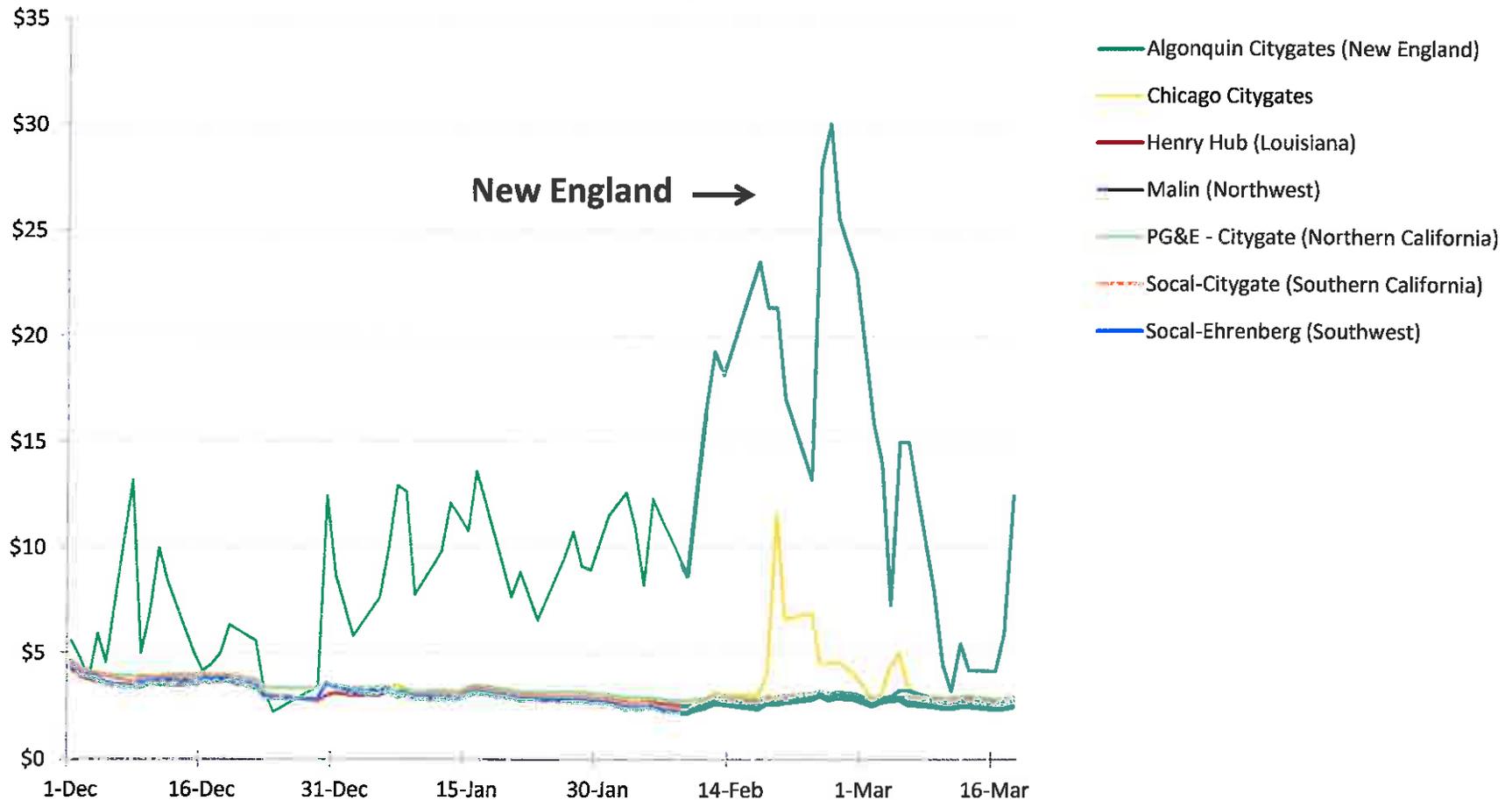
# New England is Facing Major Energy Challenges...

- Gas for electric generation in New England is severely constrained during the winter driving electric power prices higher
- Competitive power market is not delivering a solution; power grid reliability is threatened on the coldest days
- Consumers are switching from oil to natural gas for heating
- Concerns about extensive new pipeline construction
- Natural gas supply problem compounded by the retirement of nuclear, coal and oil power plants
  - More than 3,500 MW to retire by 2018 (10% of fleet)
  - Additional 5,000 MW at-risk of retiring by 2020

# New England Gas Prices This Winter ~175% Higher Than Rest Of Country

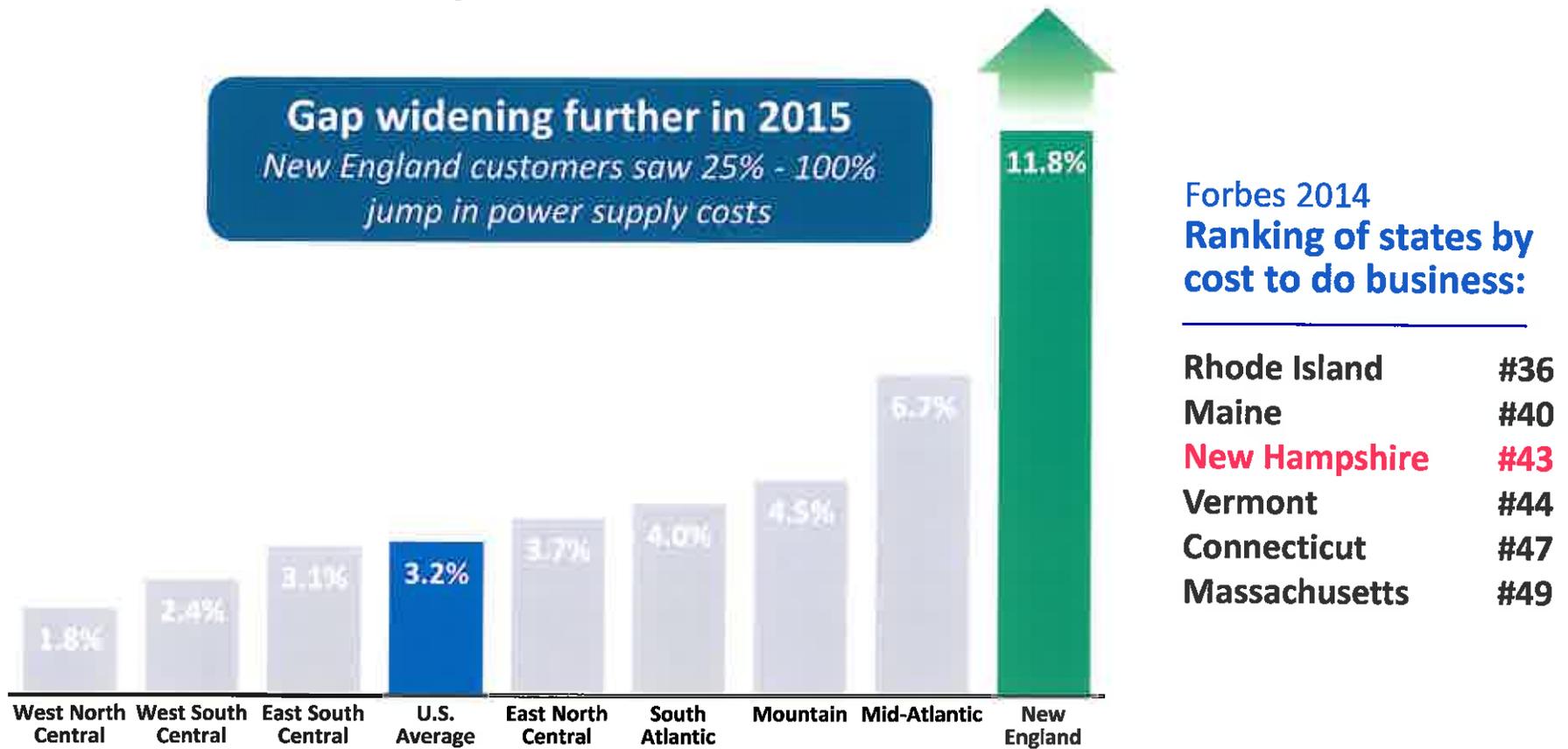
## Winter 2014-15 Natural Gas Market Prices at Selected U.S. Hubs

(ICE Reported Data Republished by U.S. EIA - \$/MMBtu)



# These Costs Burden the New England Economy

## Change in Average Residential Electricity Prices First half 2014 vs First half 2013

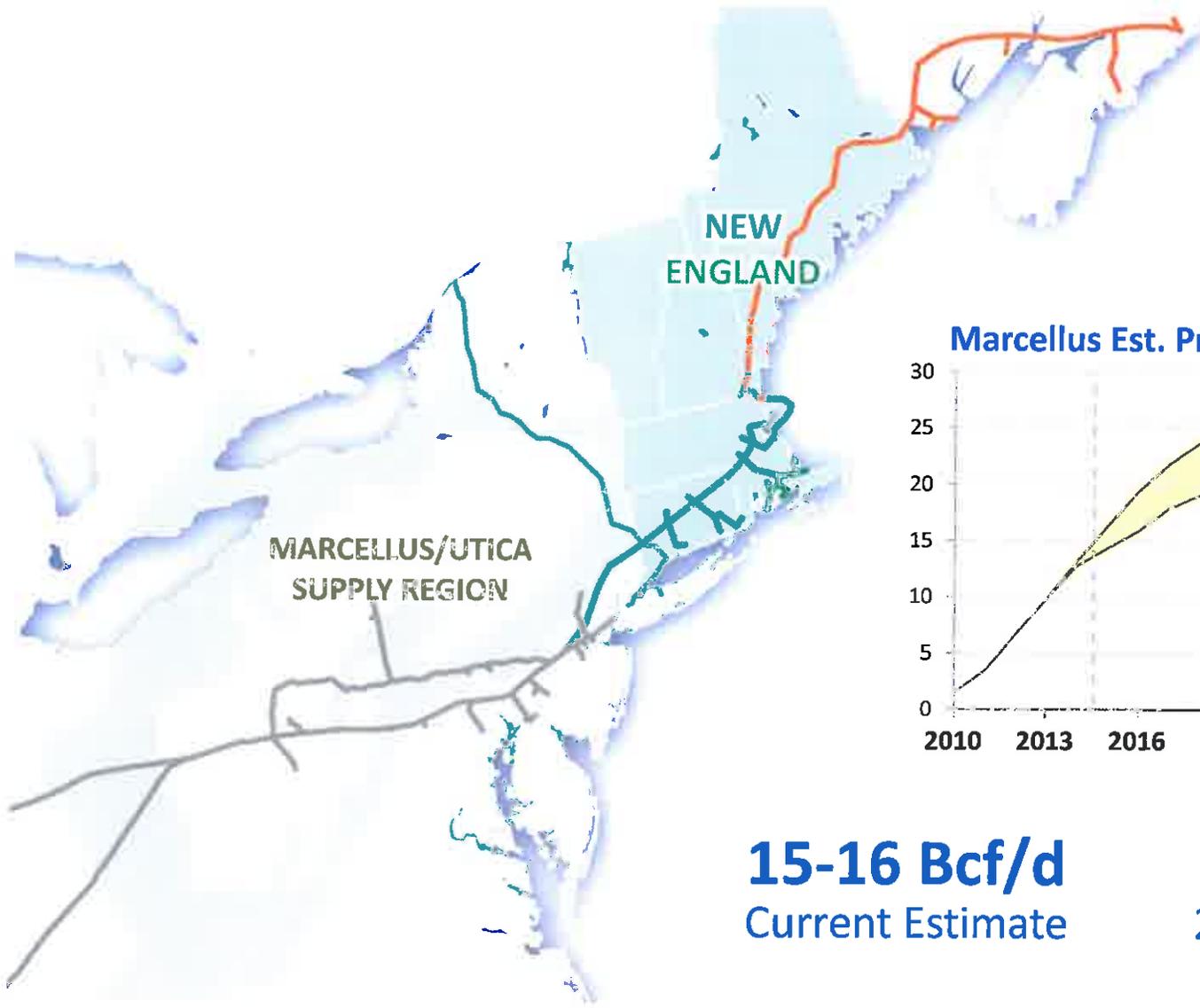


### Forbes 2014 Ranking of states by cost to do business:

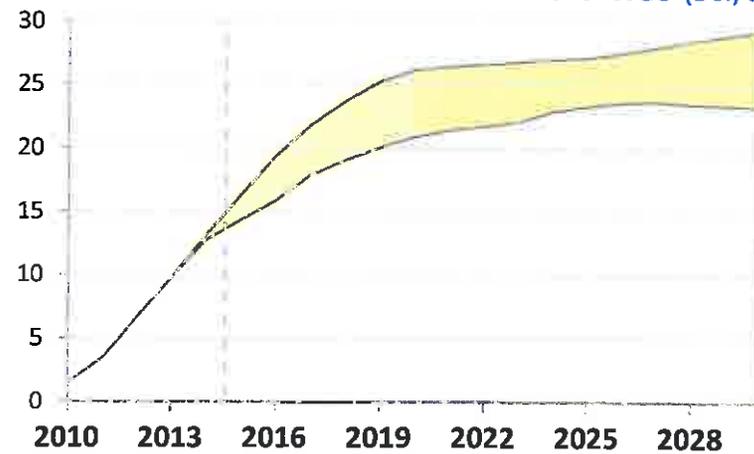
Rhode Island	#36
Maine	#40
<b>New Hampshire</b>	<b>#43</b>
Vermont	#44
Connecticut	#47
Massachusetts	#49

(source: EIA)

# Plentiful Energy Supplies Exists Next Door



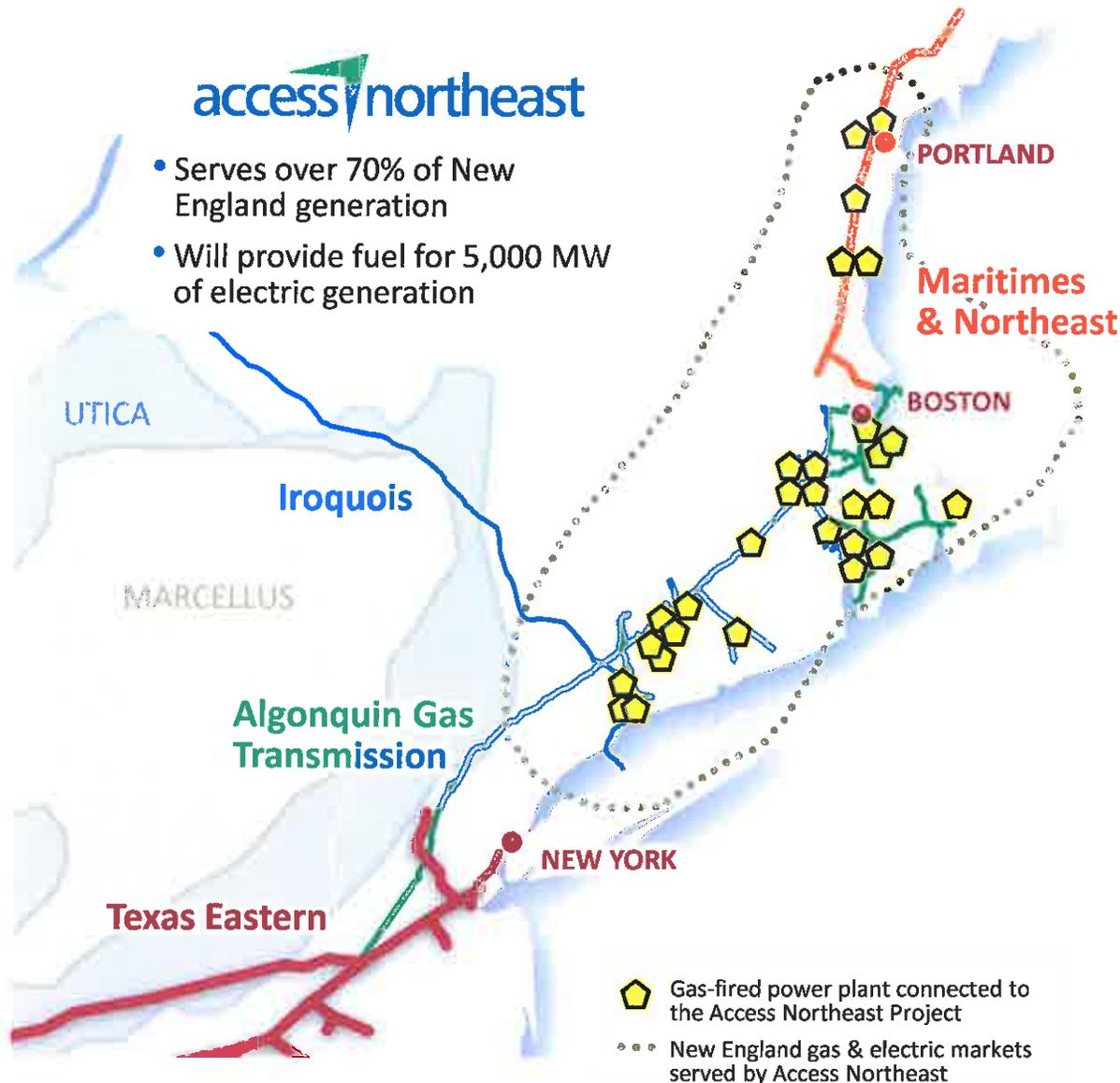
Marcellus Est. Production Volumes (Bcf/d)



**15-16 Bcf/d**  
Current Estimate

**27 Bcf/d**  
2030 Avg Estimate

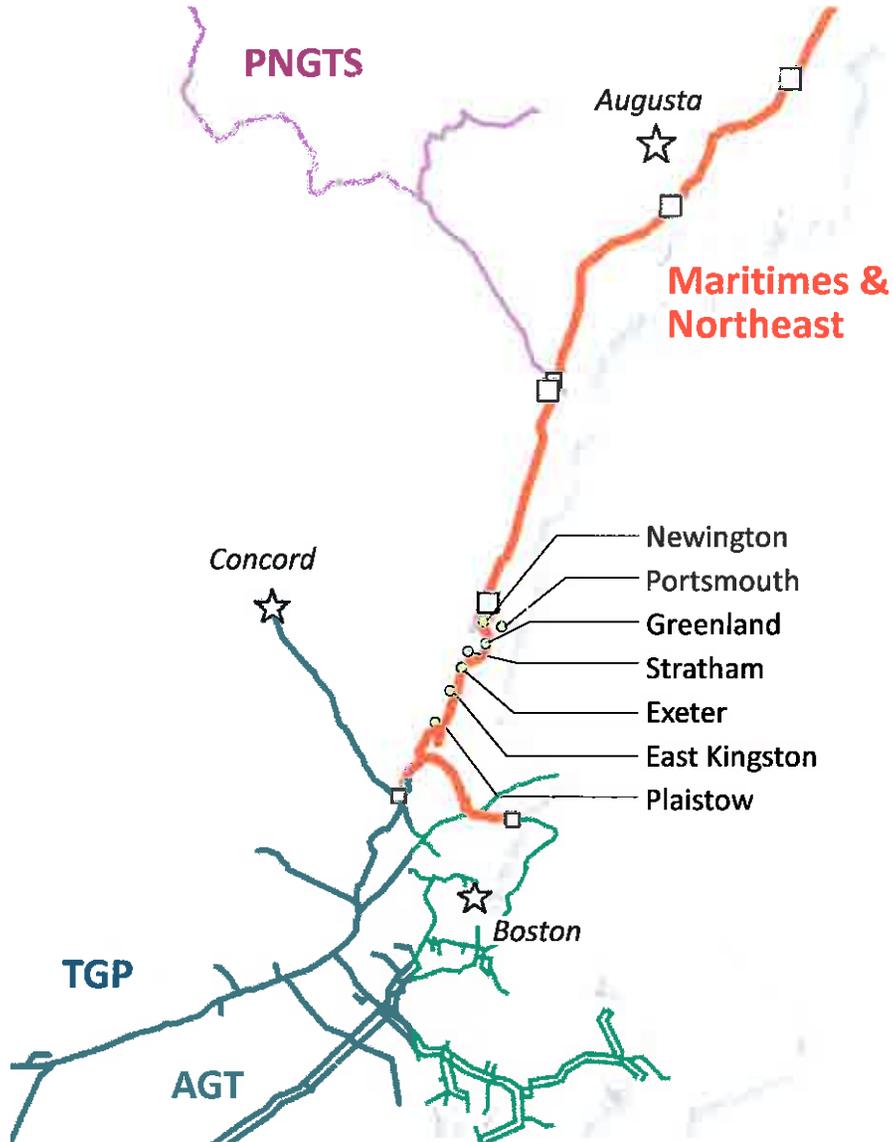
# Access Northeast is a Tailored Solution for the Region's Electric Energy Needs



- Serves over 70% of New England generation
- Will provide fuel for 5,000 MW of electric generation

- Upgrades Existing Pipelines
  - Innovative
  - Cost effective
  - Environmentally responsible approach
- Utilizes local natural gas storage
- Reduces carbon emissions by displacing oil generation
- Increases natural gas supplies to power plants by 0.9 Bcf /day
- Provides rapid response capability – a first of its kind service to electric generators that will:
  - Meet peak winter day needs
  - Back stop intermittent solar and wind – renewable power
- Is quick to market, with a planned November 2018 in-service date

# Key Benefits to New Hampshire



- **\$54 - \$189 million annual net savings for New Hampshire**
- **Addresses winter gas constraints in the state and region without new construction in New Hampshire**

Est. reduction in wholesale power costs	Normal winter	2013/14 winter
NE: gross savings	\$1 B	\$2.5 B
NE: net savings	\$600 M	\$2.1 M
NH: gross savings	\$90 M	\$225 M
NH: net savings	\$54 M	\$189 M

# Action is Needed Now

- New England states demonstrated strong leadership by the early identification of energy challenges facing the region
- Eversource Energy, National Grid and Spectra Energy have developed a pragmatic solution aimed directly at the problem... fuel supplies on cold winter days
- Access Northeast has commenced the development of contracts with electric distribution companies and gas distribution companies
- All contracts subject to state utility commission(s) review / approval to ensure customer benefits

## Access Northeast Preliminary Schedule

Activity	1Q15	2Q15	2H15	2016	2017	2018
Finalize Access Northeast project developers	✓					
Complete gas infrastructure agreements	█					
State approval of agreements			█			
Federal & state permitting			█			
Construction					█	
In-service						★

## Access Northeast *is* The Solution

Focuses squarely on the energy problems facing New England:  
***Winter gas supply***

Serves greatest number of natural gas power plants

Leverages existing assets, accelerating in-service date and reducing environmental impact

Reduces carbon emissions by displacing oil generation

Delivers significant savings to customers

Scalable to meet growing needs of heating customers and electric generation

access  northeast

Q&A