

Electric and Gas Infrastructure

Natural Gas and Electricity Coordination Technical Conference

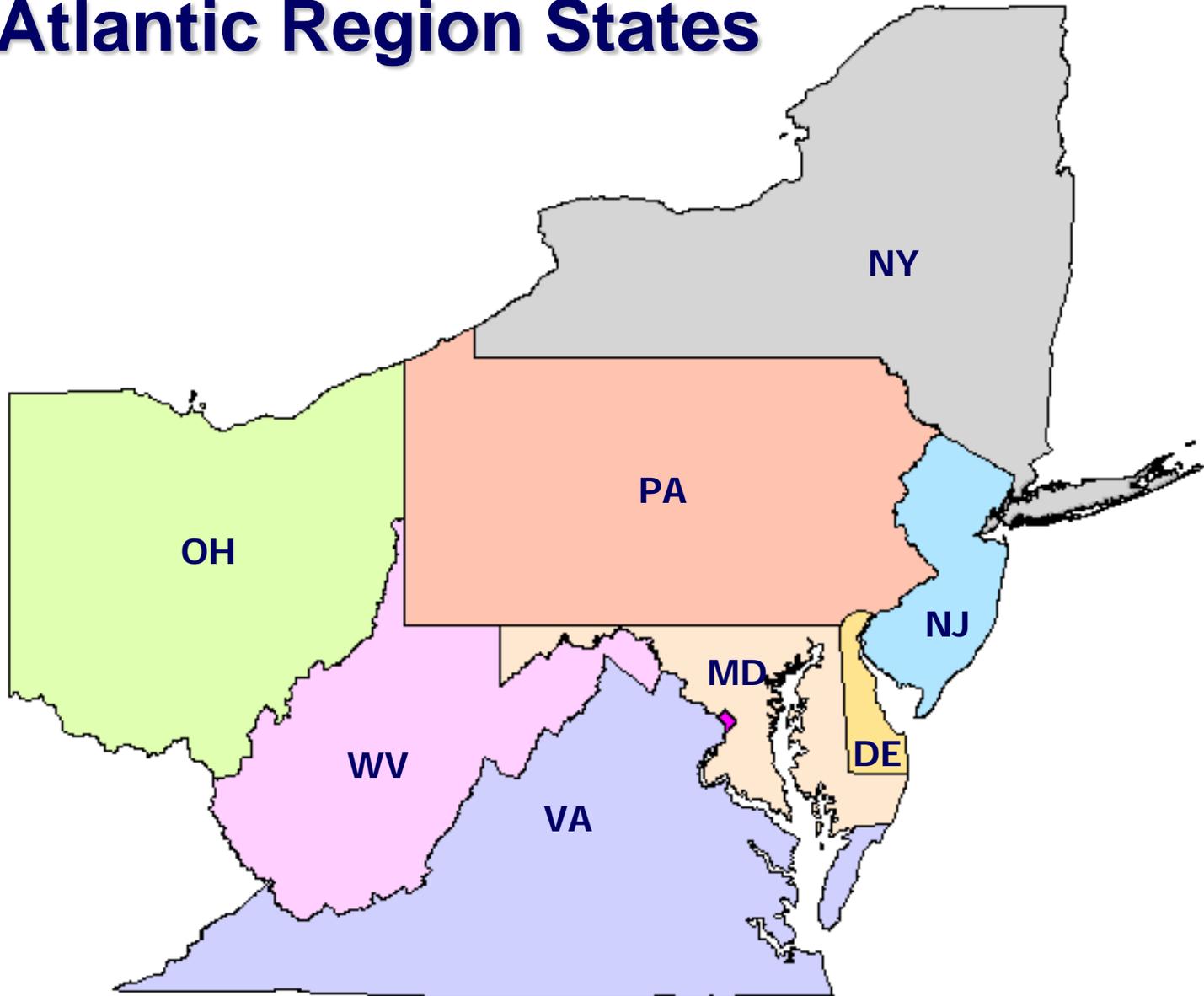
Mid-Atlantic Region



August 30, 2012

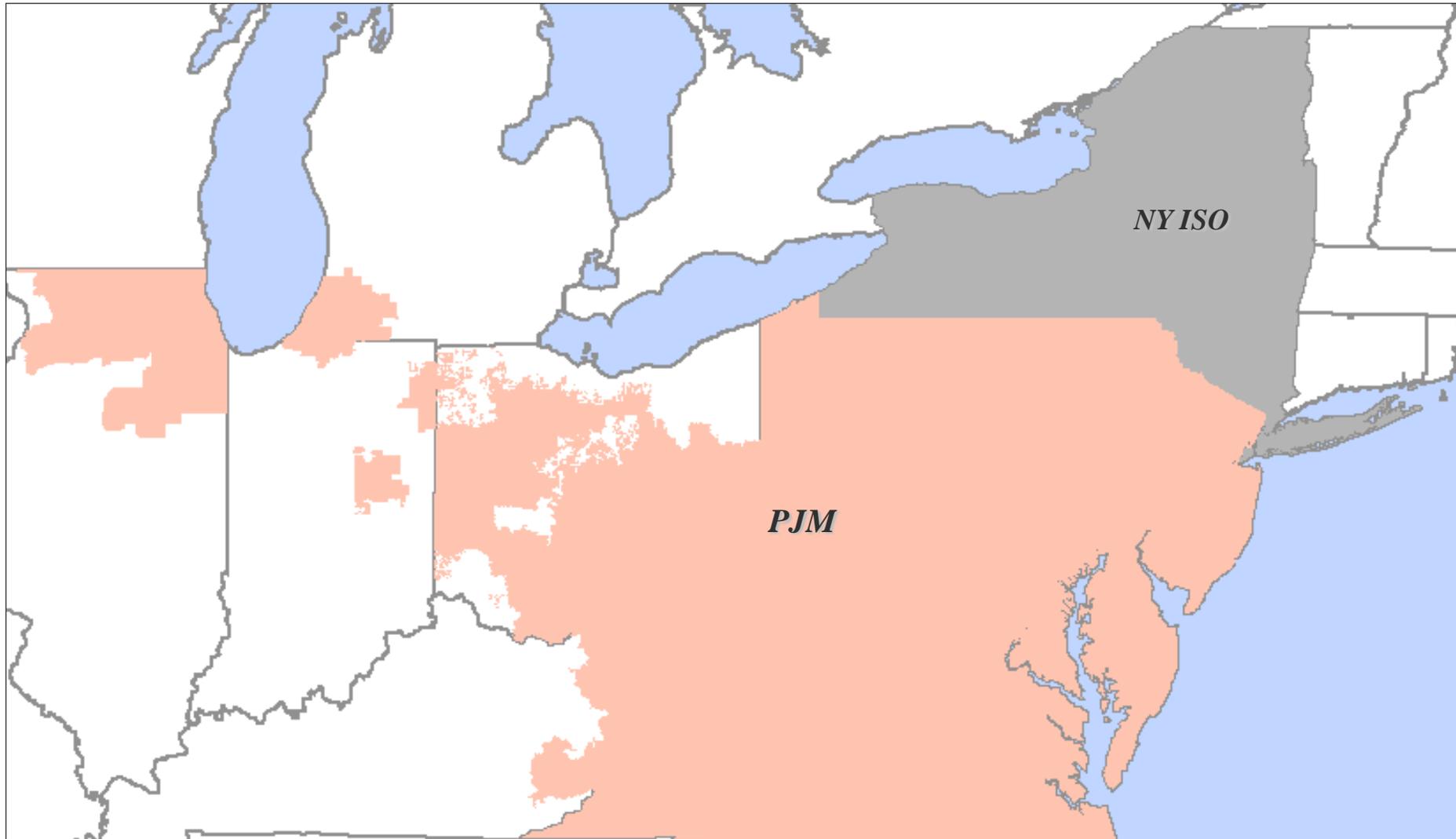
Washington, DC (FERC HQ)

Mid-Atlantic Region States

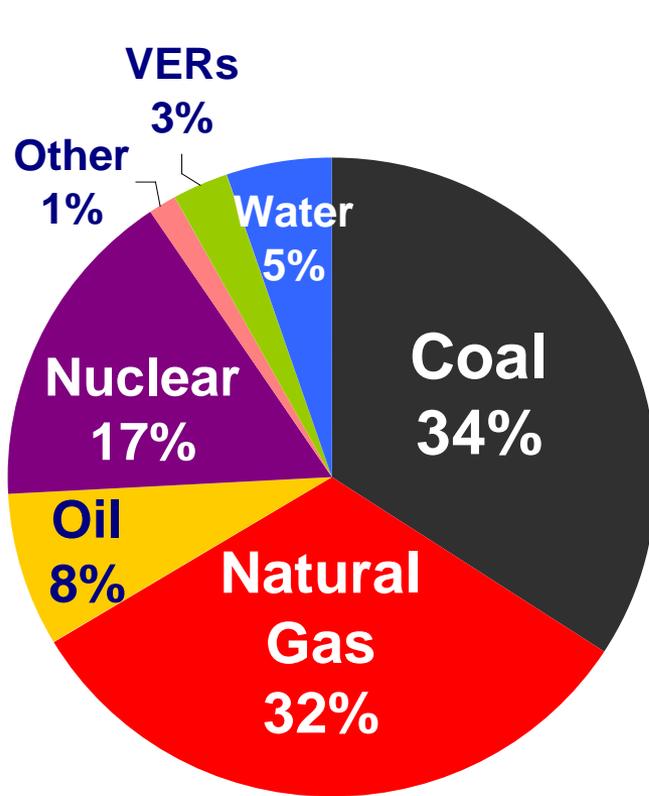


ELECTRIC INFRASTRUCTURE

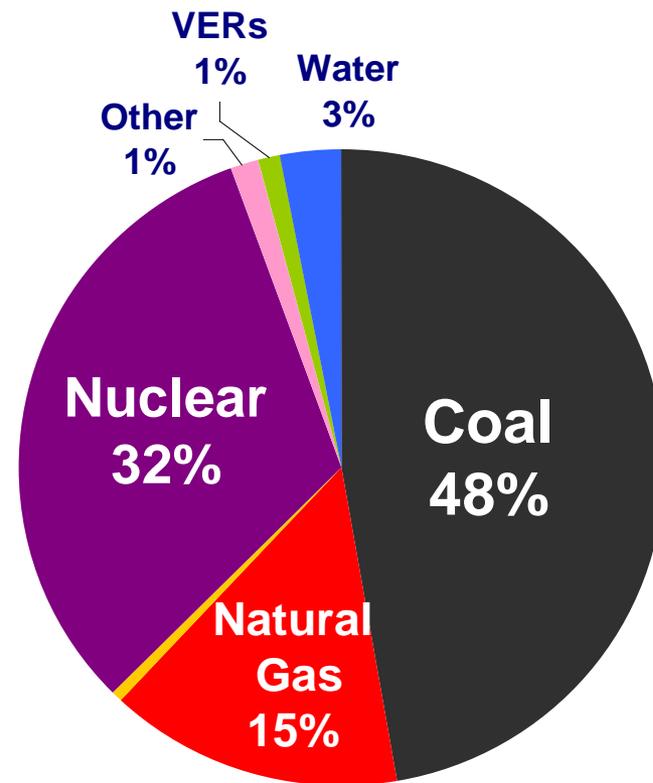
Mid-Atlantic Sub-Regions



Installed Capacity and Generation



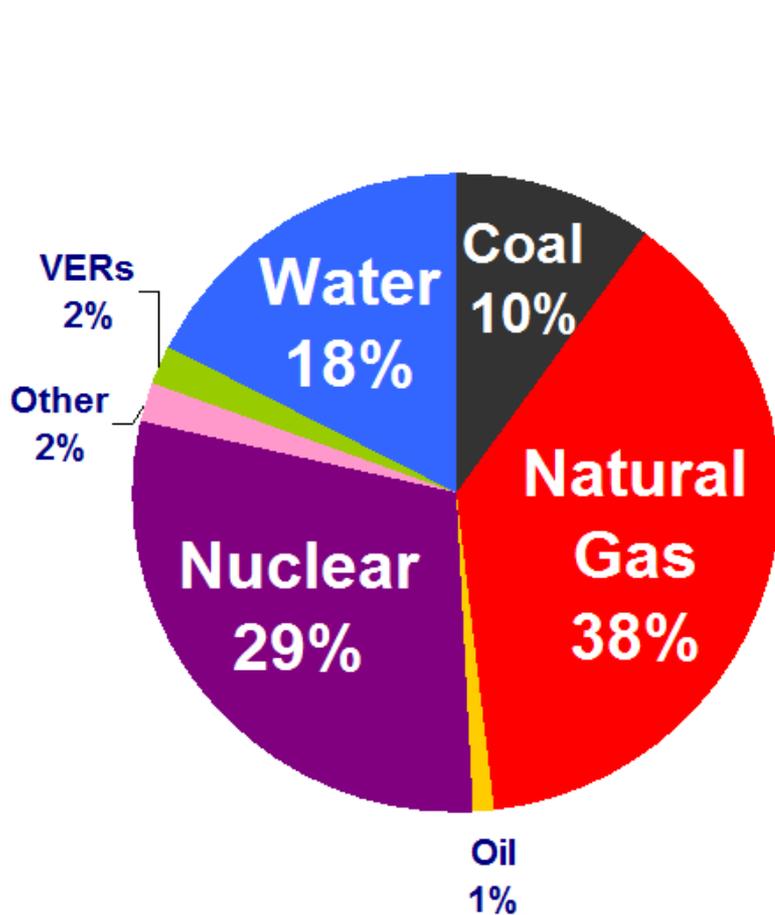
Current Installed Capacity
259,769 MW



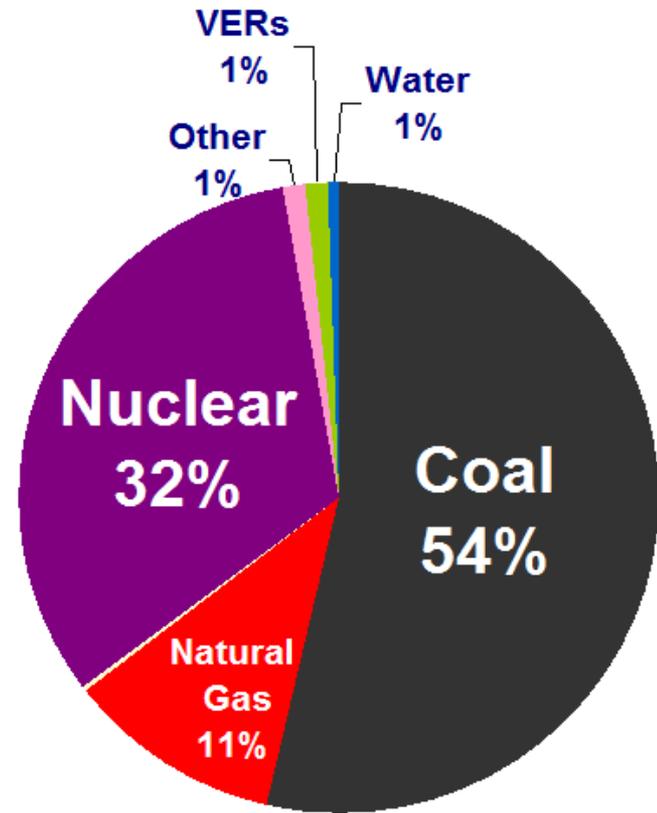
2010 Generation
975,000 GWh

Source: Based on data derived from Ventyx, Velocity Suite, August 2012.

Electricity Generation by Sub-Region



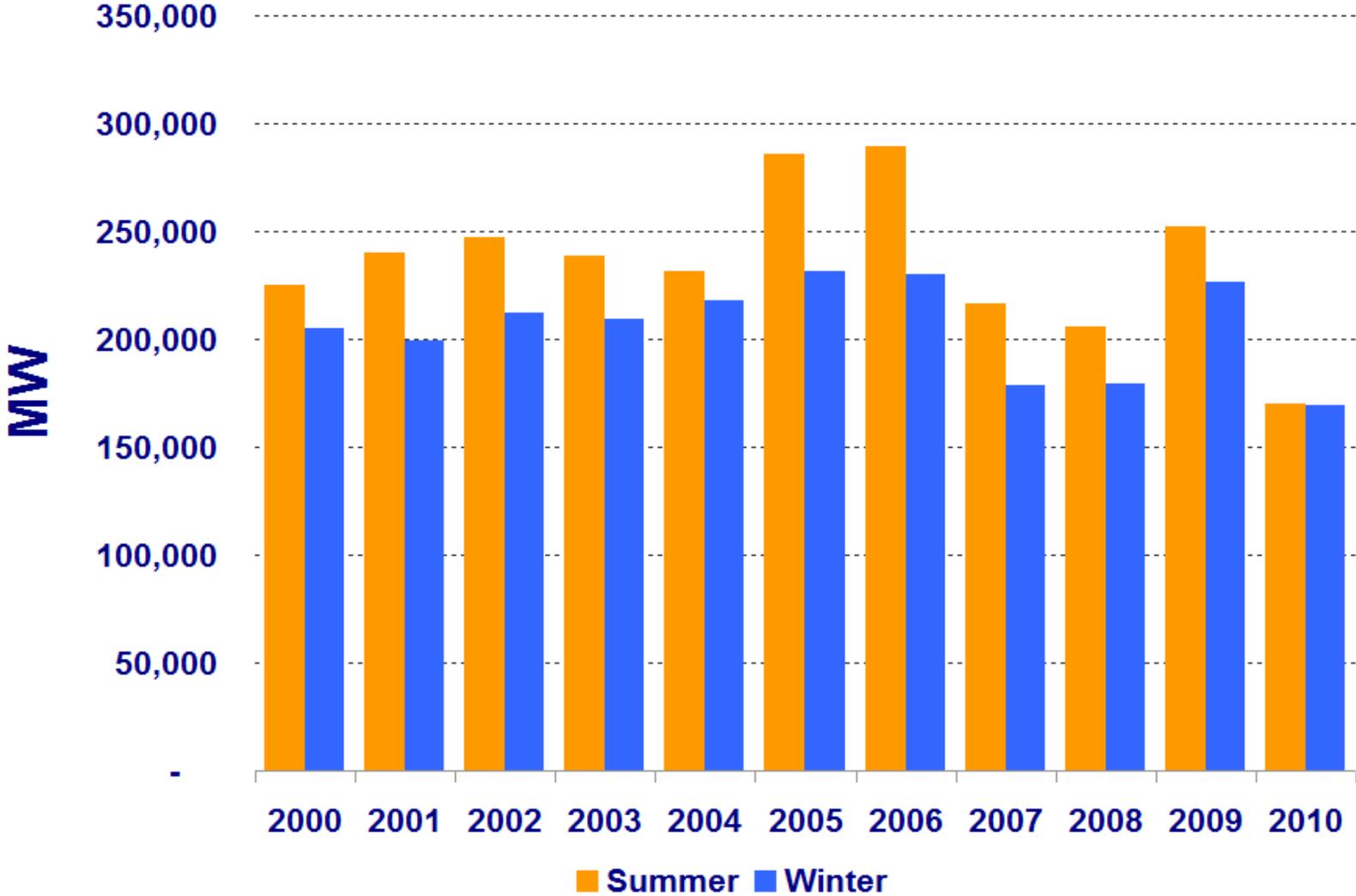
NYISO 142,629 GWh



PJM 832,371 GWh

Source: Based on data derived from Ventyx, Velocity Suite, August 2012.

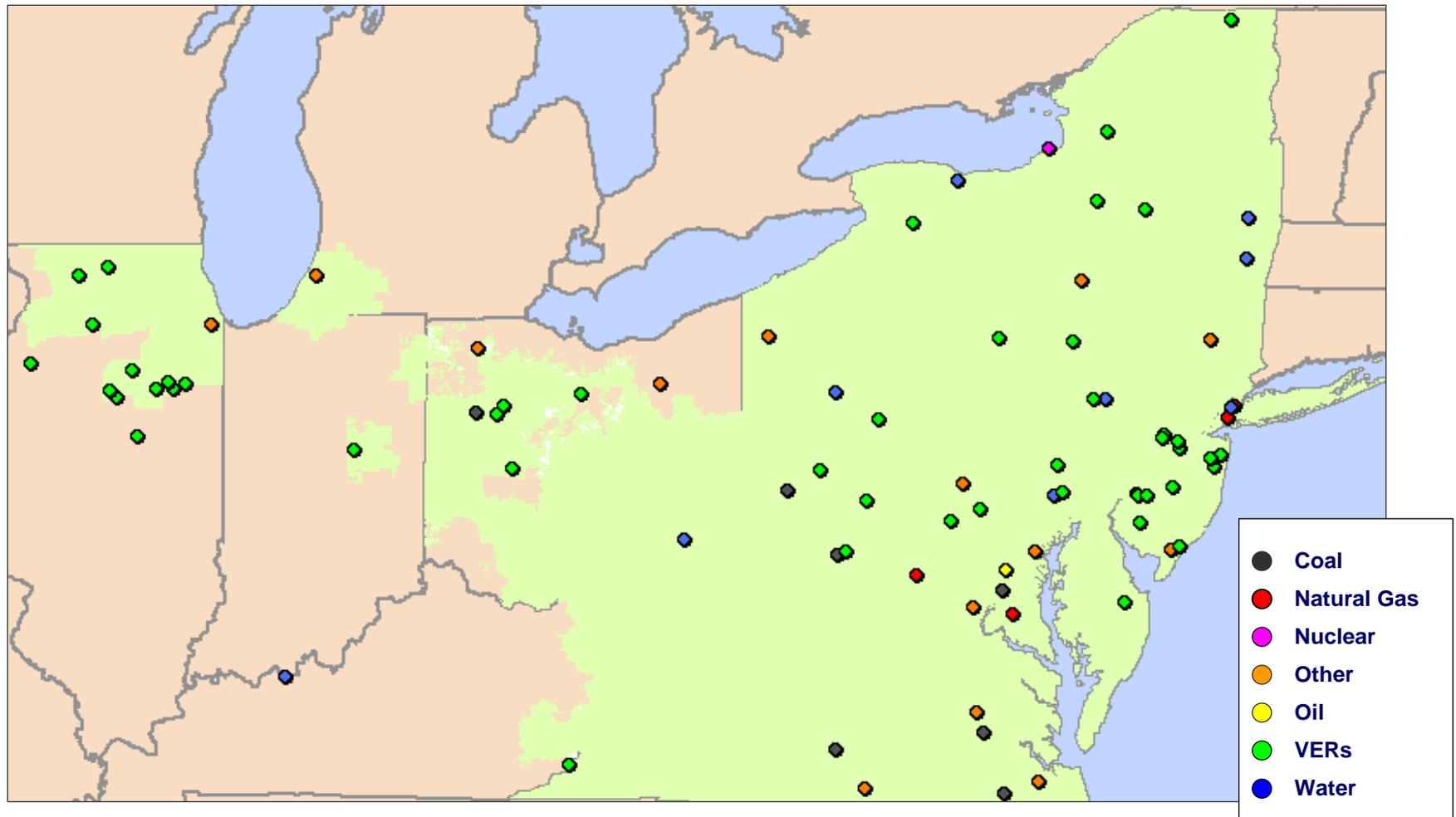
Mid-Atlantic Region Peak Demand



Source: The North American Electric Reliability Corporation's (NERC's) 2011 Electric Supply and Demand Database.

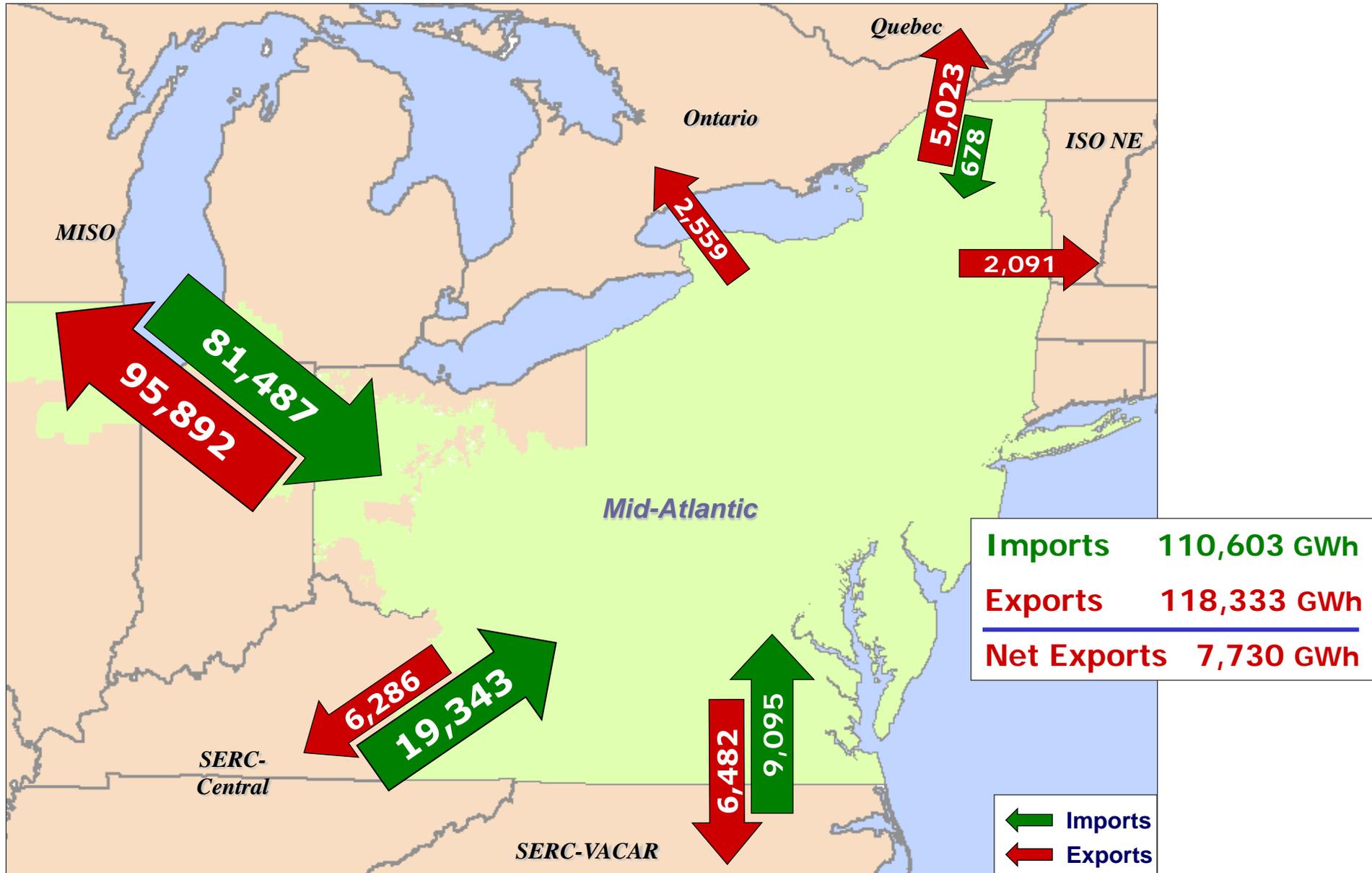
Projected Capacity Additions to 2020

- Projected capacity additions in advanced development and under construction total 11,262 MW.
- Another 22,344 MW are in early development stage.



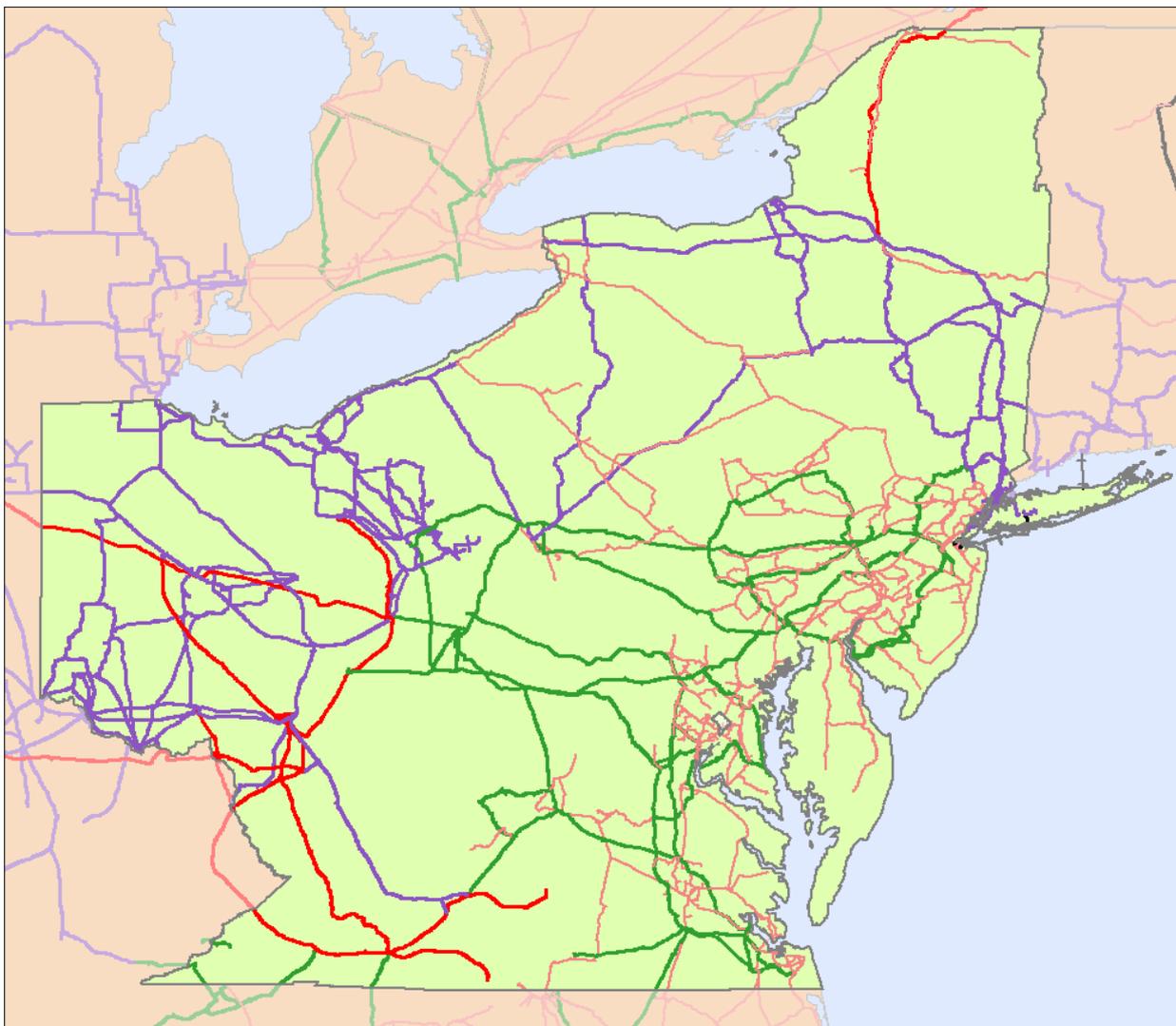
Source: Based on data derived from Ventyx, Velocity Suite, August 2012.

Net inter-regional deliverability 2010 (in GWh)



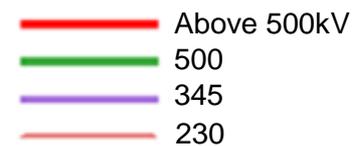
Source: Based on data derived from Ventyx, Velocity Suite, August 2012.

Mid-Atlantic Region Existing Transmission



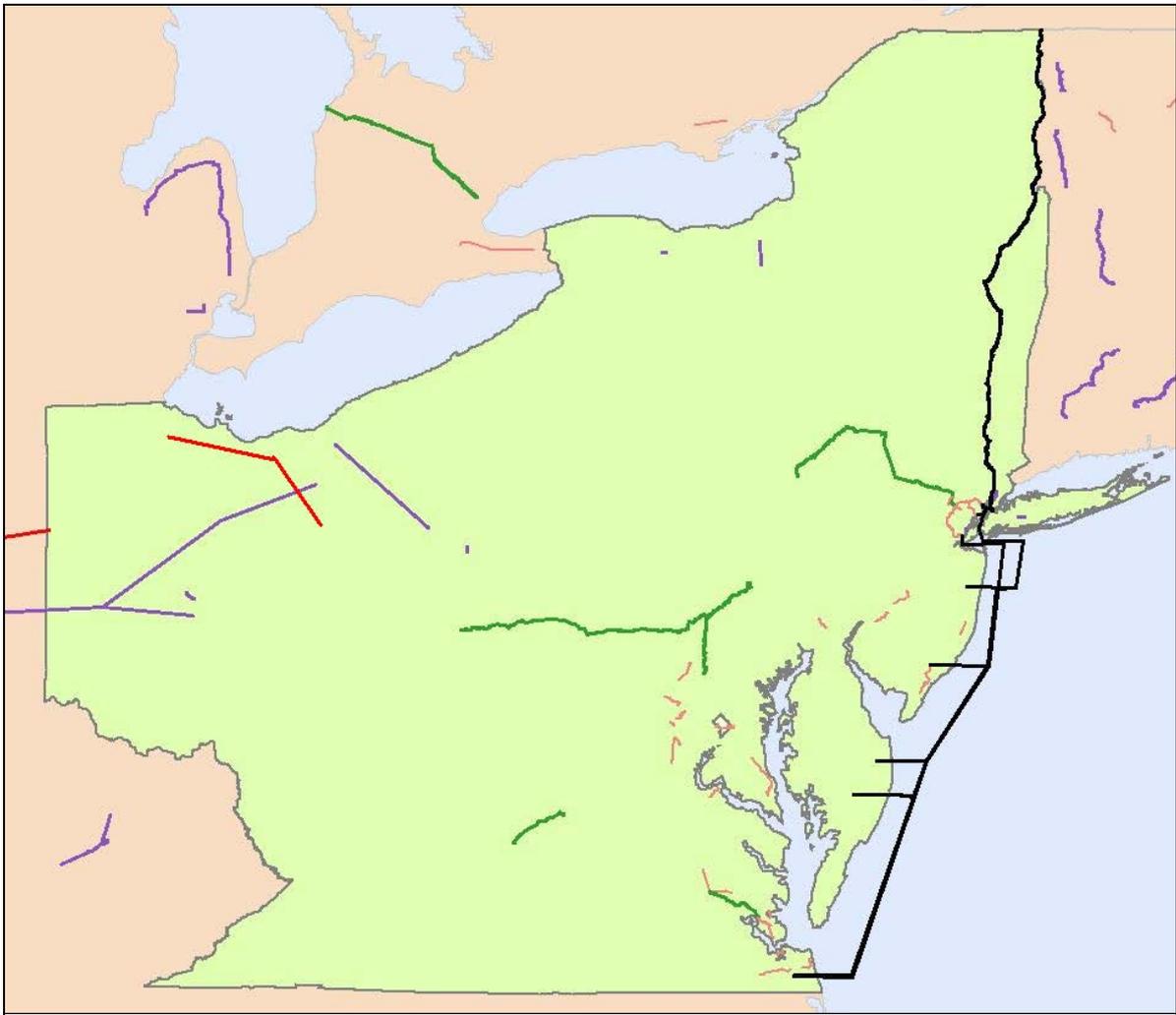
Voltage (kV)	Line Length (Miles)
230	10,241
345	12,282
500	4,032
Above 500	2,366
DC	132
Total	29,053

Voltage kV



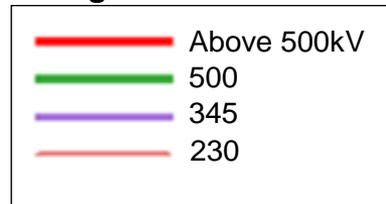
Source: Based on 2011 NERC Electric Supply and Demand Database, data derived from Ventyx, Velocity Suite, June 2012 and Staff Database.

Mid-Atlantic Projected Transmission Projects through 2030



Voltage (kV)	Line Length (Miles)	Investment Cost (Millions \$)
230	565	2,664
345	691	2,105
500	322	2,563
Above 500	319	1,017
DC	1,213	7,750
Total	3,110	16,099

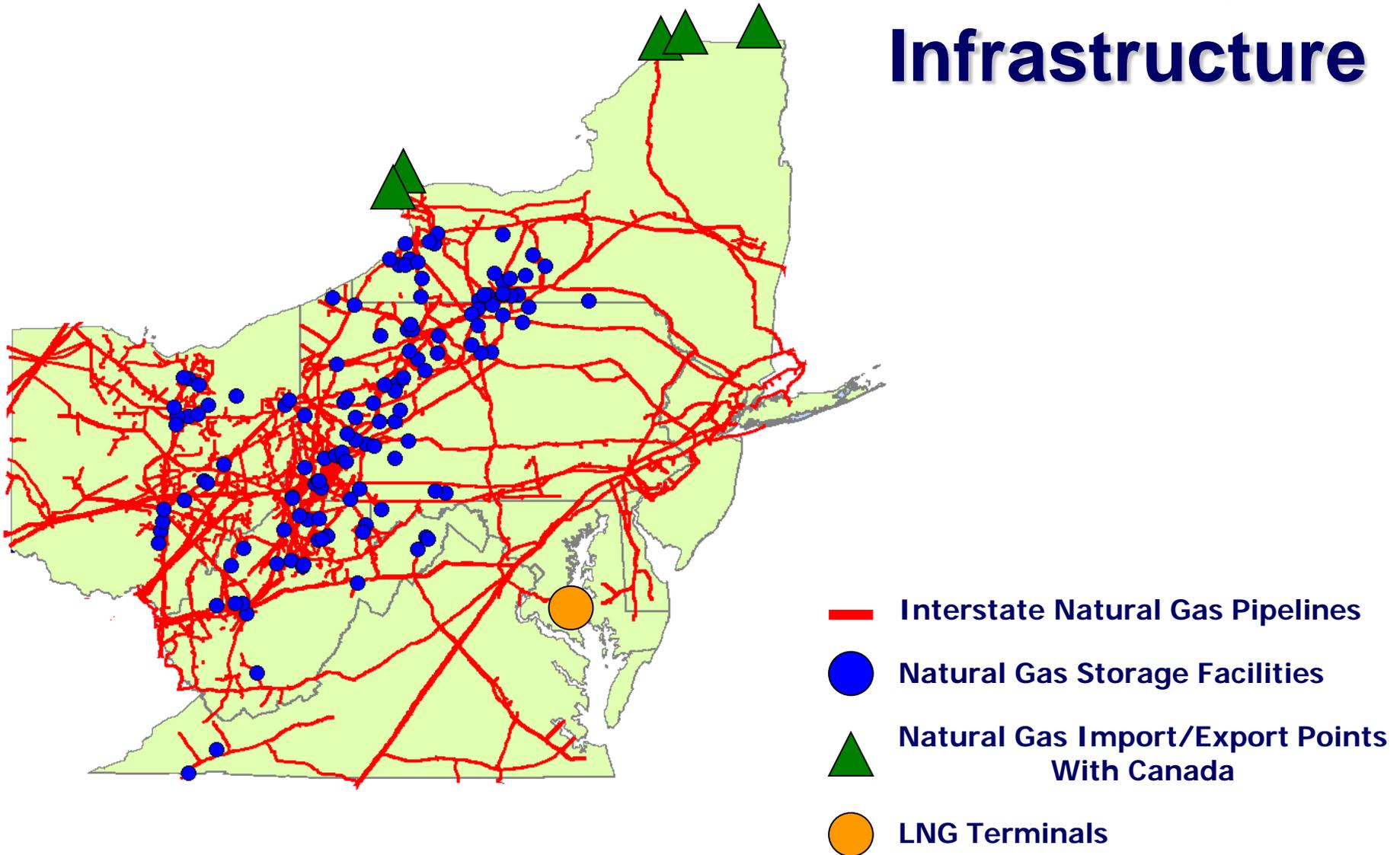
Voltage kV



Source: Based on 2011 NERC Electric Supply and Demand Database, The C Three Group Database, data derived from Ventyx, Velocity Suite, July 2012 and Staff Database.

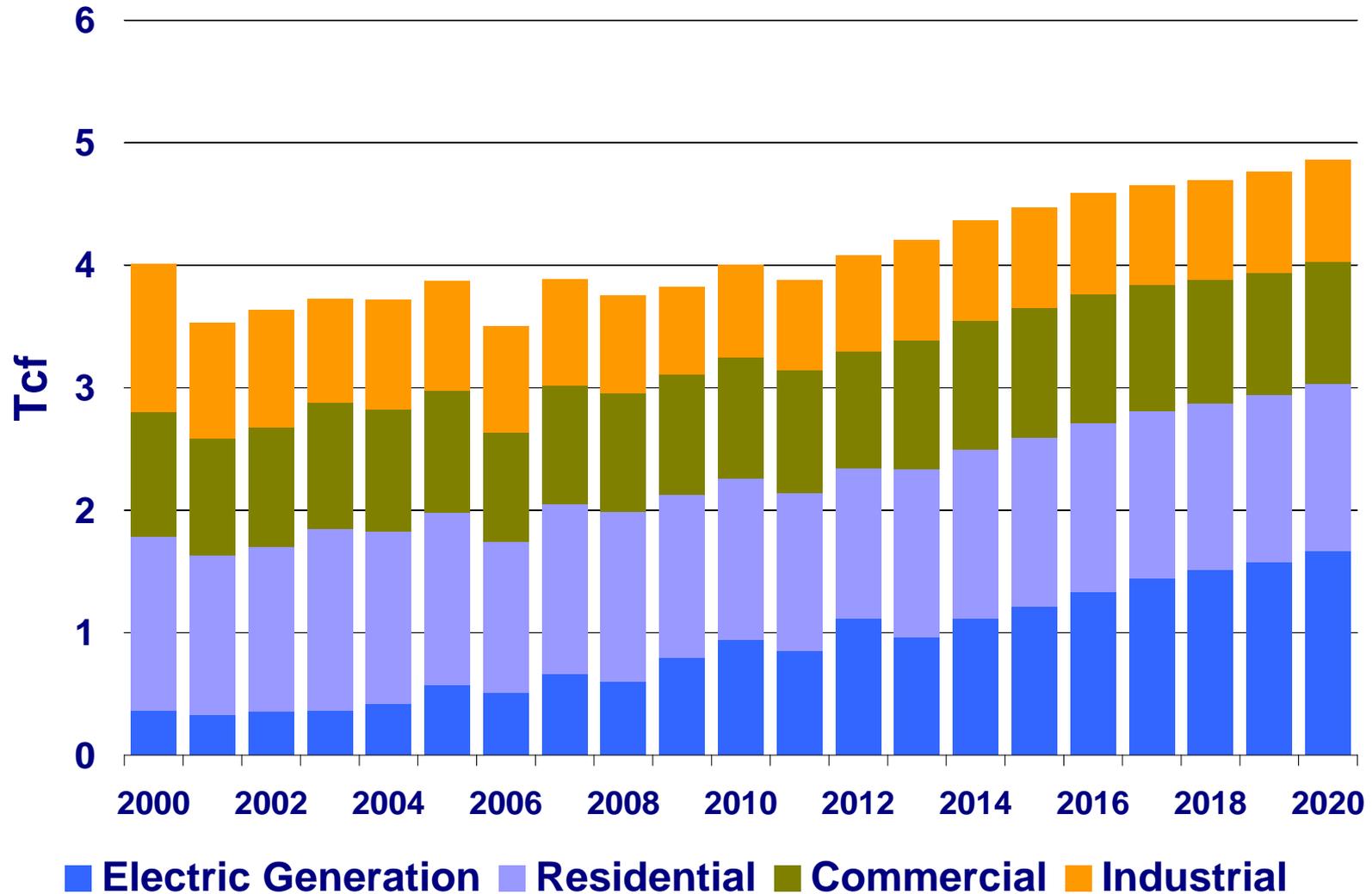
GAS INFRASTRUCTURE

Natural Gas Infrastructure



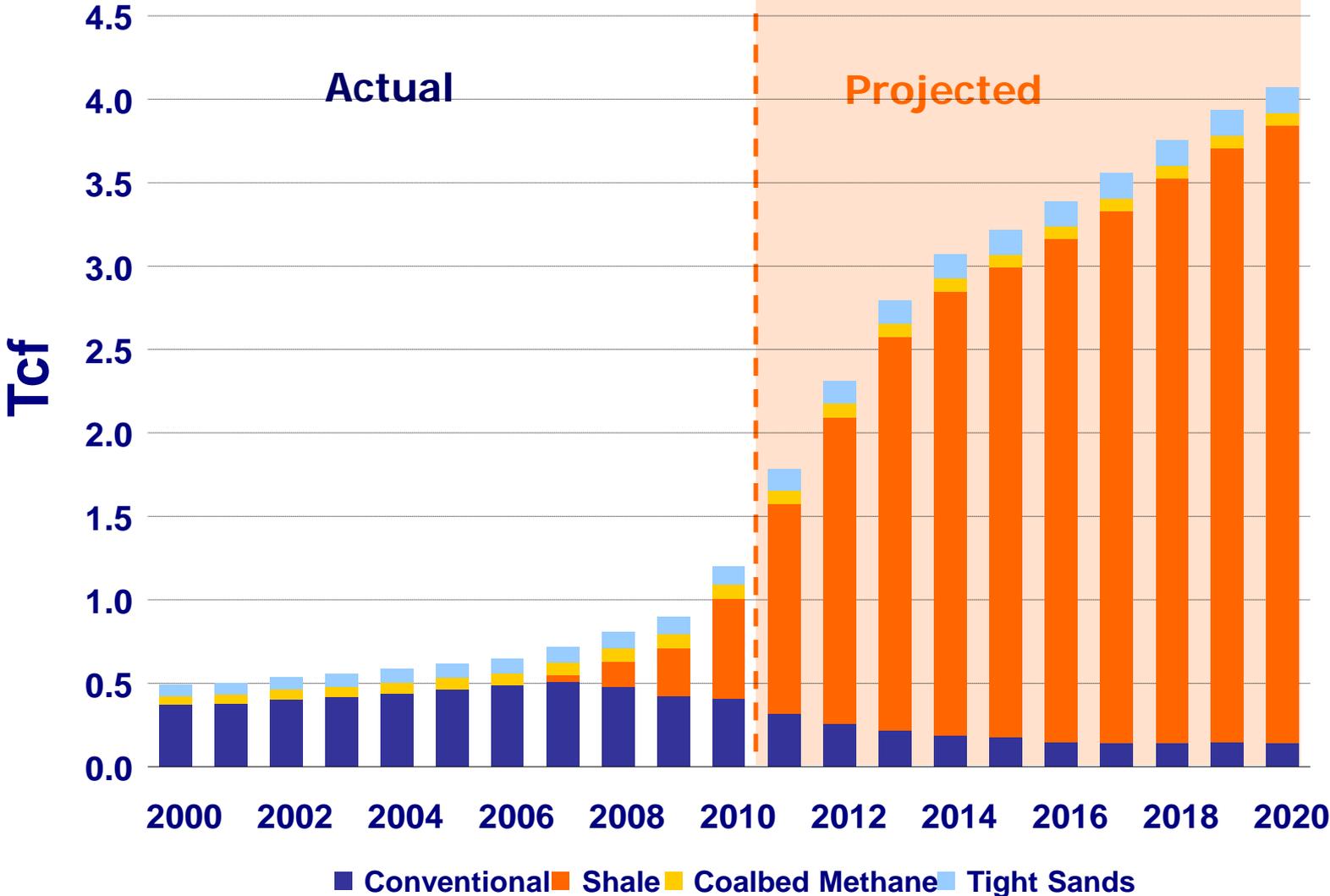
Source: Based on data from Ventyx, Velocity Suite June 2012; ICF International April 2012 Data Base; EIA Storage Spreadsheet; and Fossil Energy 4th Quarter Report 2011

Natural Gas Consumption



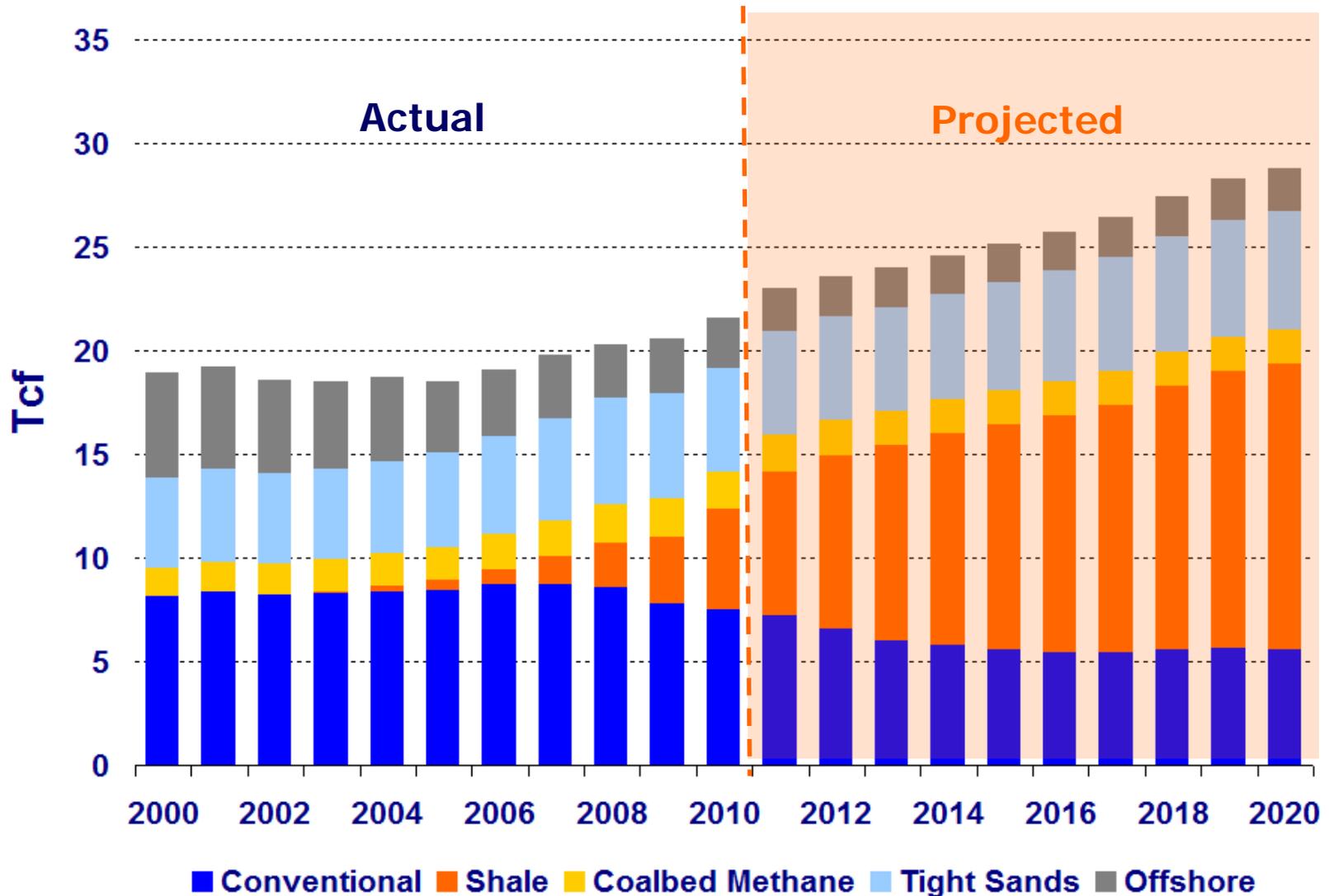
Source: ICF International April 2012 Data Base and Compass Report

Natural Gas Production by Type



Source: ICF International April 2012 Data Base and Compass Report

U.S Natural Gas Production by Type



Source: ICF International April 2012 Data Base and Compass Report

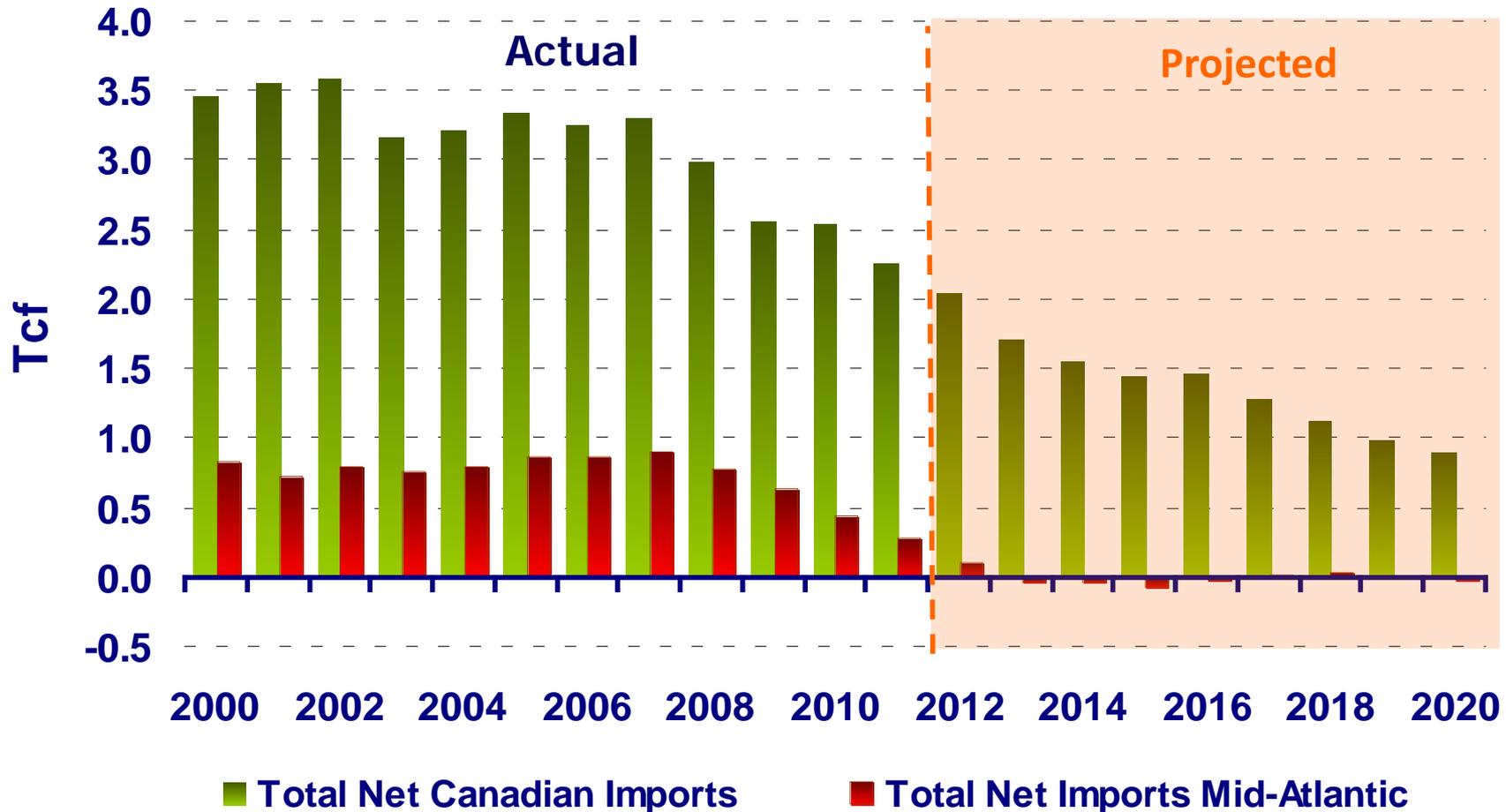
Gas Facts

(In Tcf)

	2010		2020	
	United States	Mid-Atlantic	United States	Mid-Atlantic
Total Gas Consumption	23.8	4.1	27.7	5.1
Total Gas Production	21.5	1.2	28.8	4.1
Total Working Storage Capacity	4.2	1.0	4.8	1.1
Total LNG Imports	0.43	0.04	0.32	0.01
Total LNG Exports	0	0	1.10	0.0
Total Net Imports from CN	2.5	0.4	0.9	-0.03

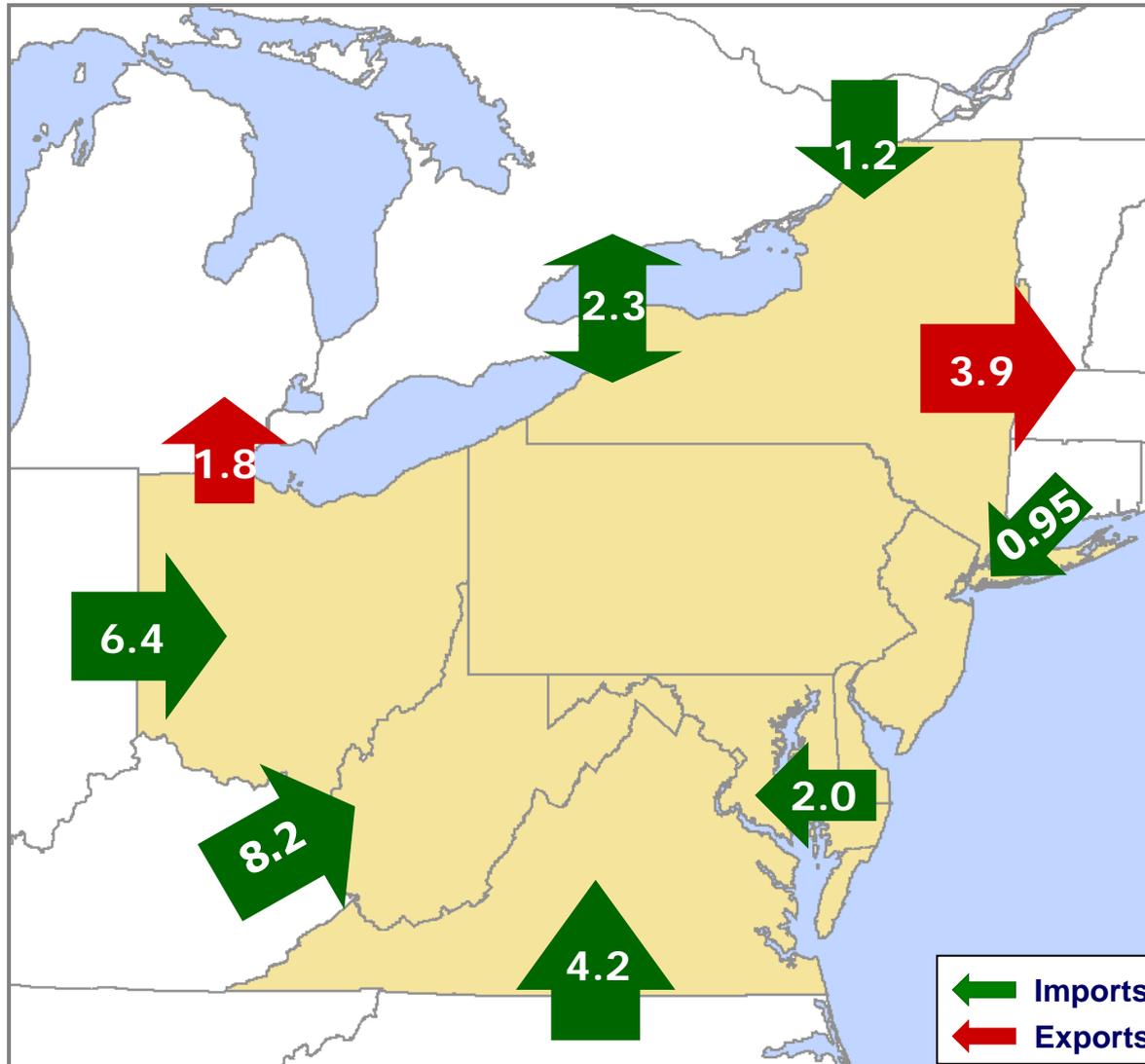
Source: ICF International April 2012 Data Base and Compass Report, EIA Spreadsheets & Fossil Energy's Quarter Reports for 2010

Actual and Projected Net Canadian Imports/Exports



Source: ICF International April 2012 Data Base and Compass Report; EIA Natural Gas Annuals and Spreadsheets; and Fossil Energy 4th Quarter Report for 2010

Pipeline Capacity 2010 (in Bcfd)

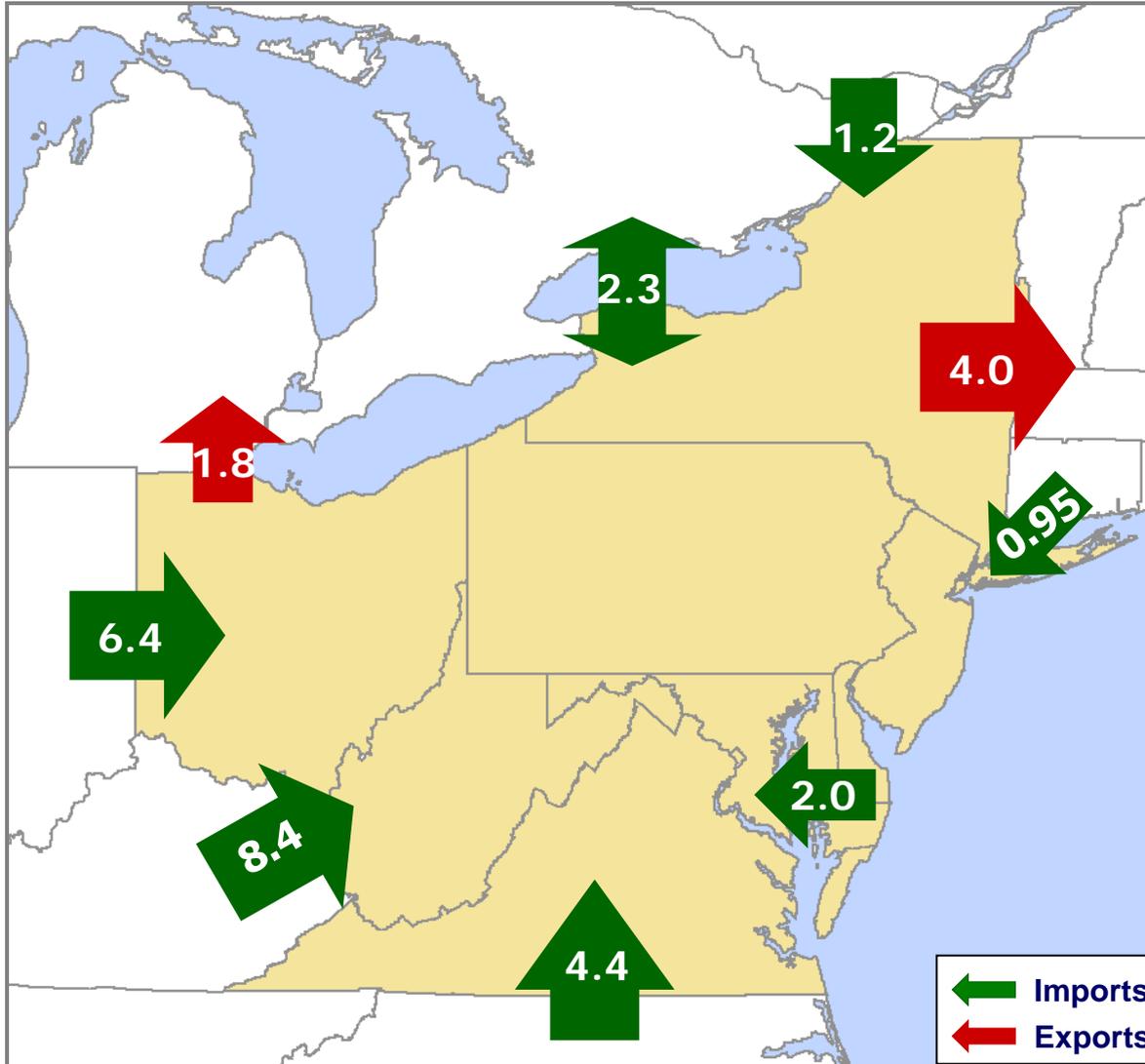


Imports Capacity
25.2 Bcfd

Export Capacity
5.7 Bcfd

Source: ICF International April 2012 Data Base and Compass Report.

Projected Pipeline Capacity 2020 (in Bcfd)



**Imports Capacity
25.6 Bcfd**

**Export Capacity
5.8 Bcfd**

Source: ICF International April 2012 Data Base and Compass Report.