

Electric and Gas Infrastructure

Natural Gas and Electricity Coordination Technical Conference

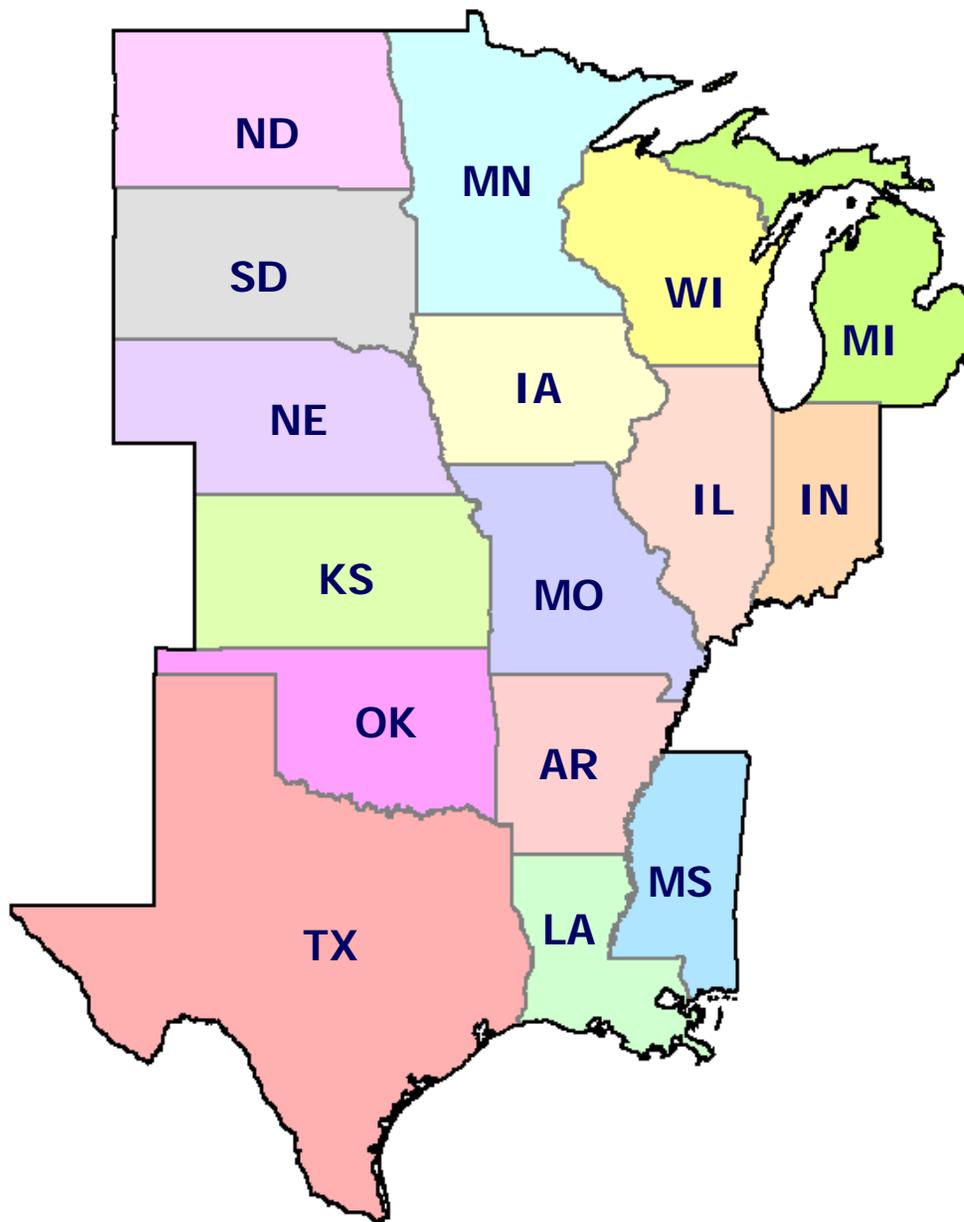
Central Region



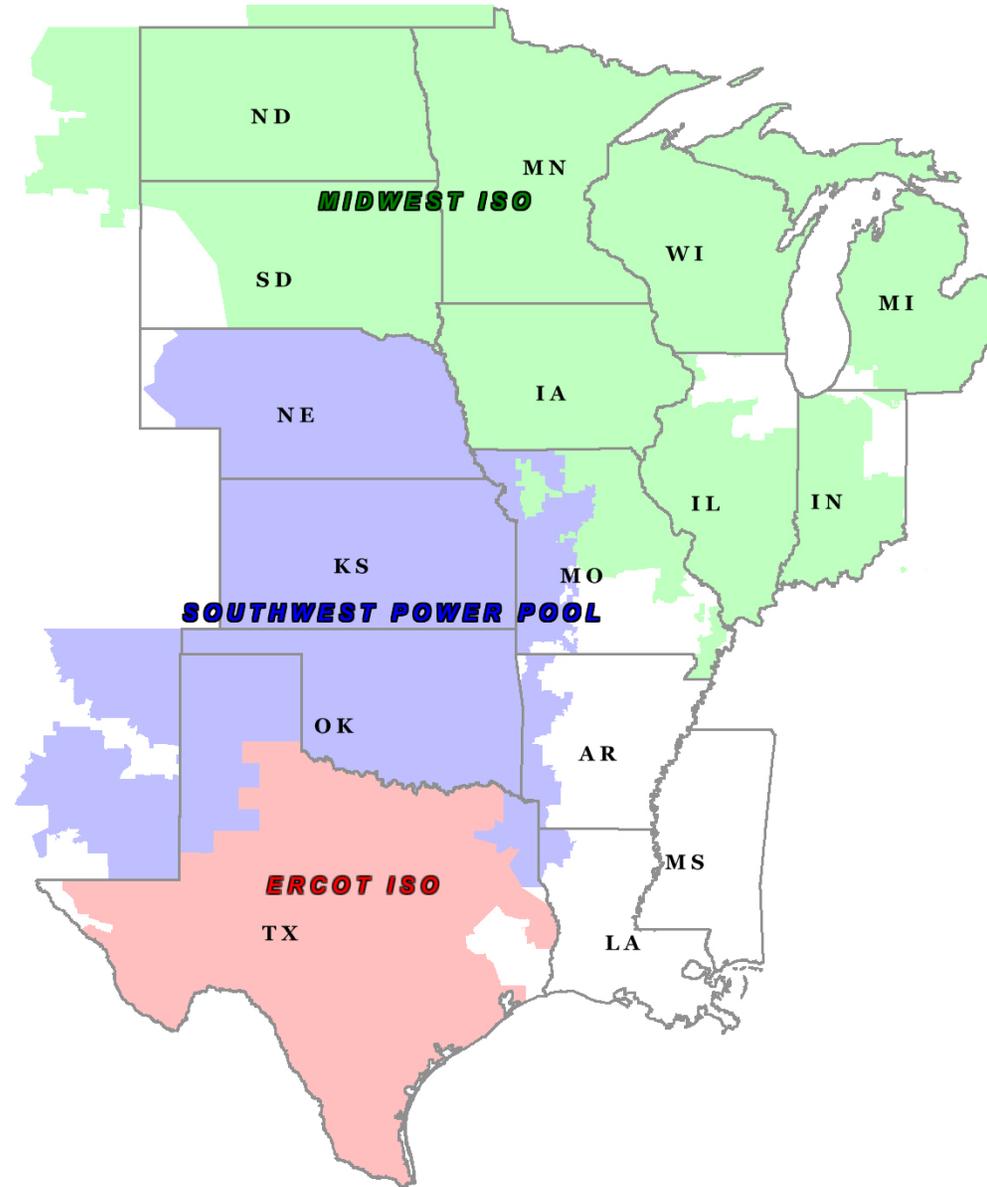
August 6, 2012

St. Louis, Missouri

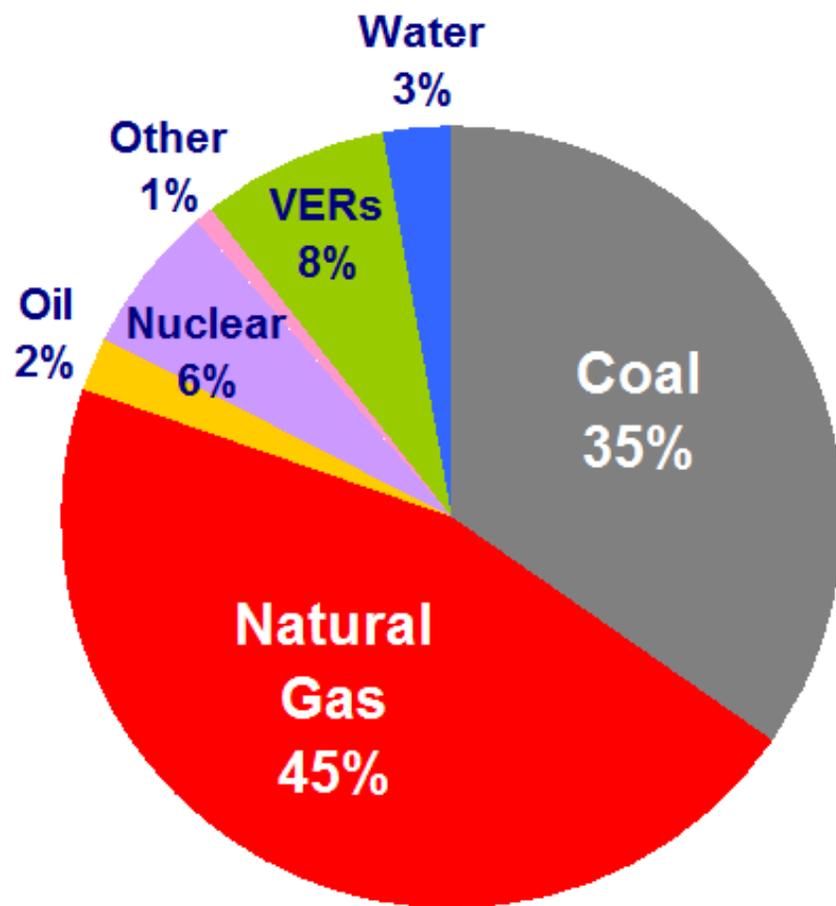
Central Region States



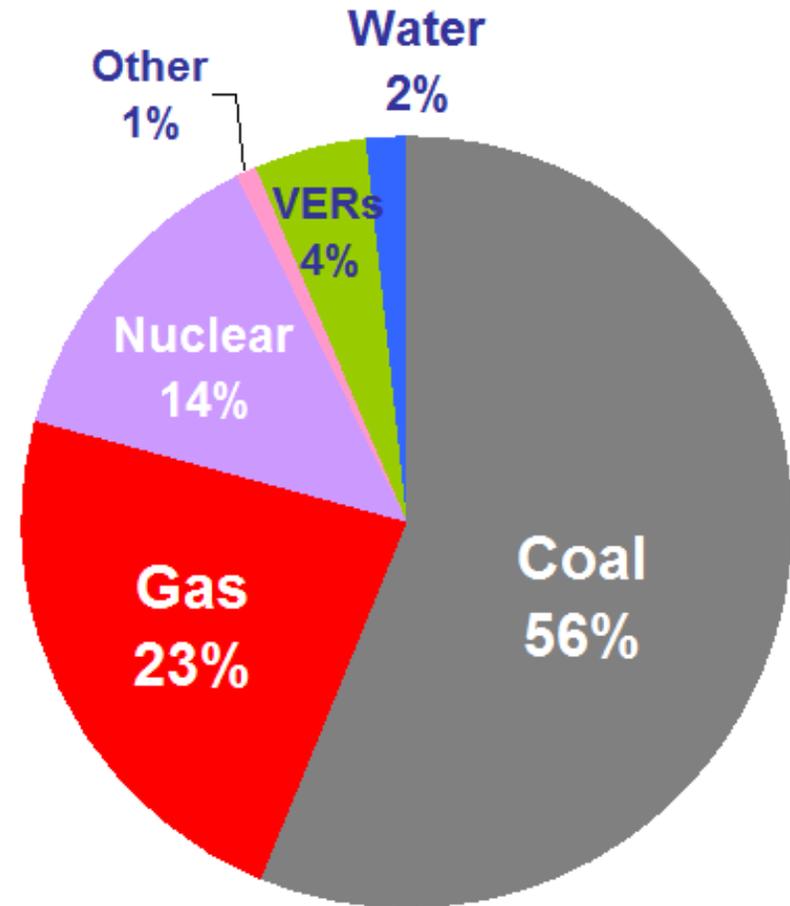
ELECTRIC INFRASTRUCTURE



Installed Capacity and Generation



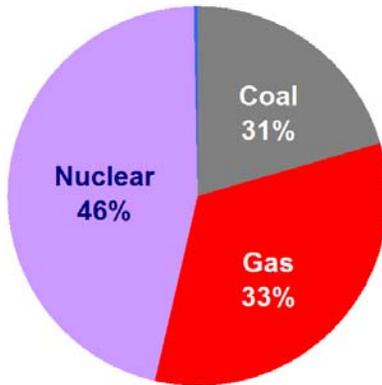
Current Installed Capacity
345,799 MW



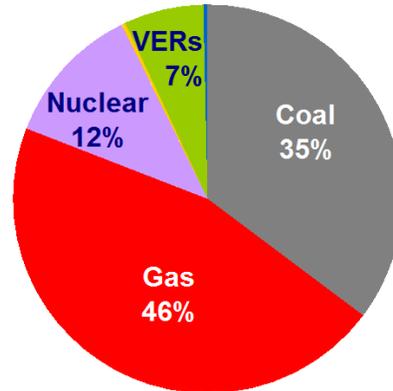
2010 Generation
1,214,349 GWh

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

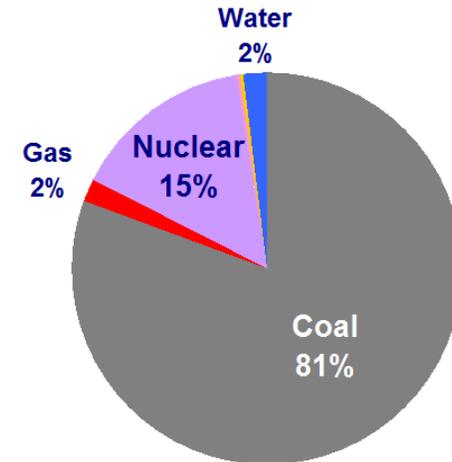
Electricity Generation by Sub Regions



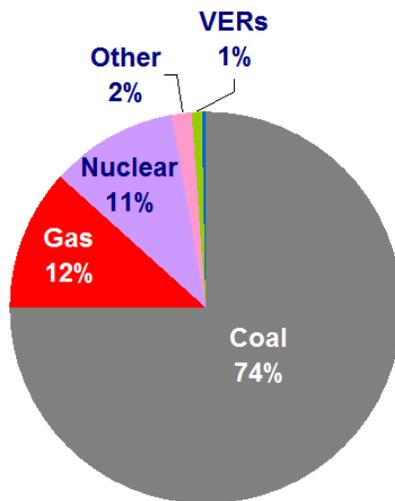
Entergy 91,384 GWh



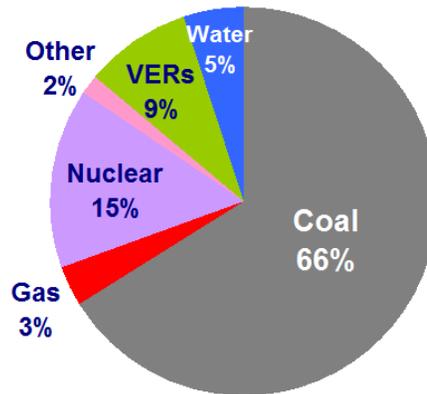
ERCOT 346,676 GWh



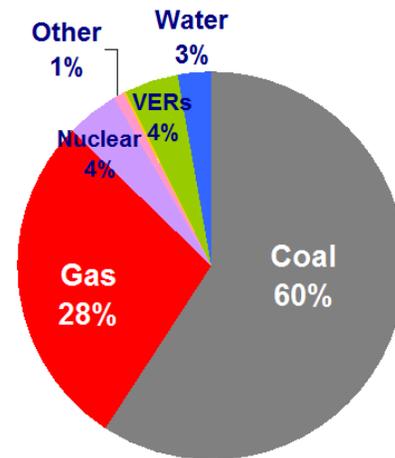
MISO (SERC-Gateway) 117,491 GWh



MISO (RFC) 210,727 GWh



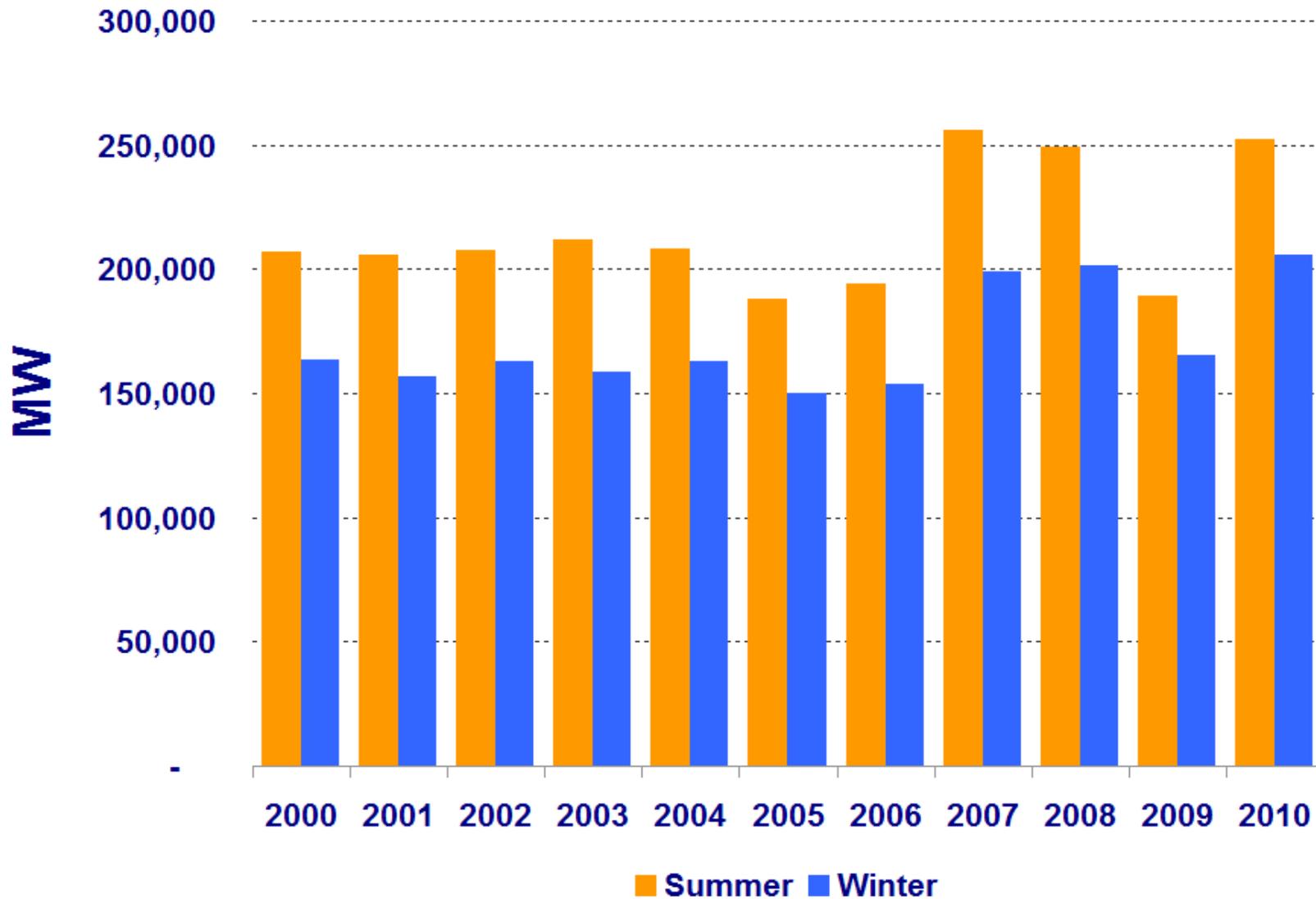
MISO (MRO) 228,955 GWh



SPP 219,116 GWh

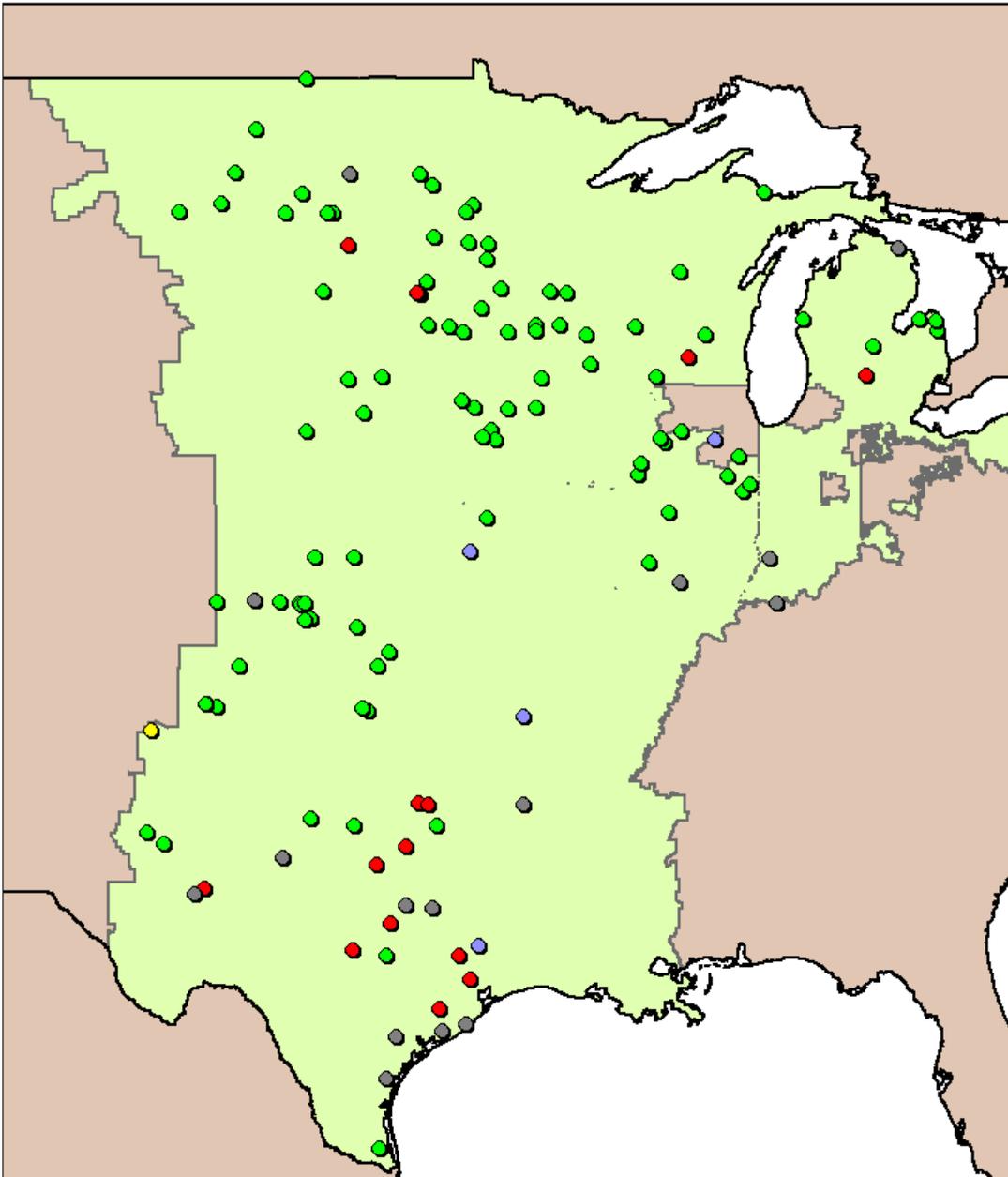
Source: Based on data derived from Ventyx, Velocity Suite, June 2012.

Central Region Peak Demand



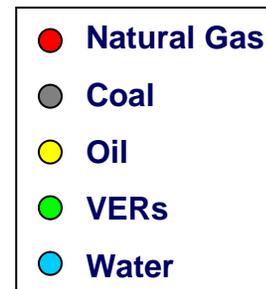
Source: The North American Electric Reliability Corporation's (NERC's) 2011 Electric Supply and Demand Database.

Power plants in Advanced Development



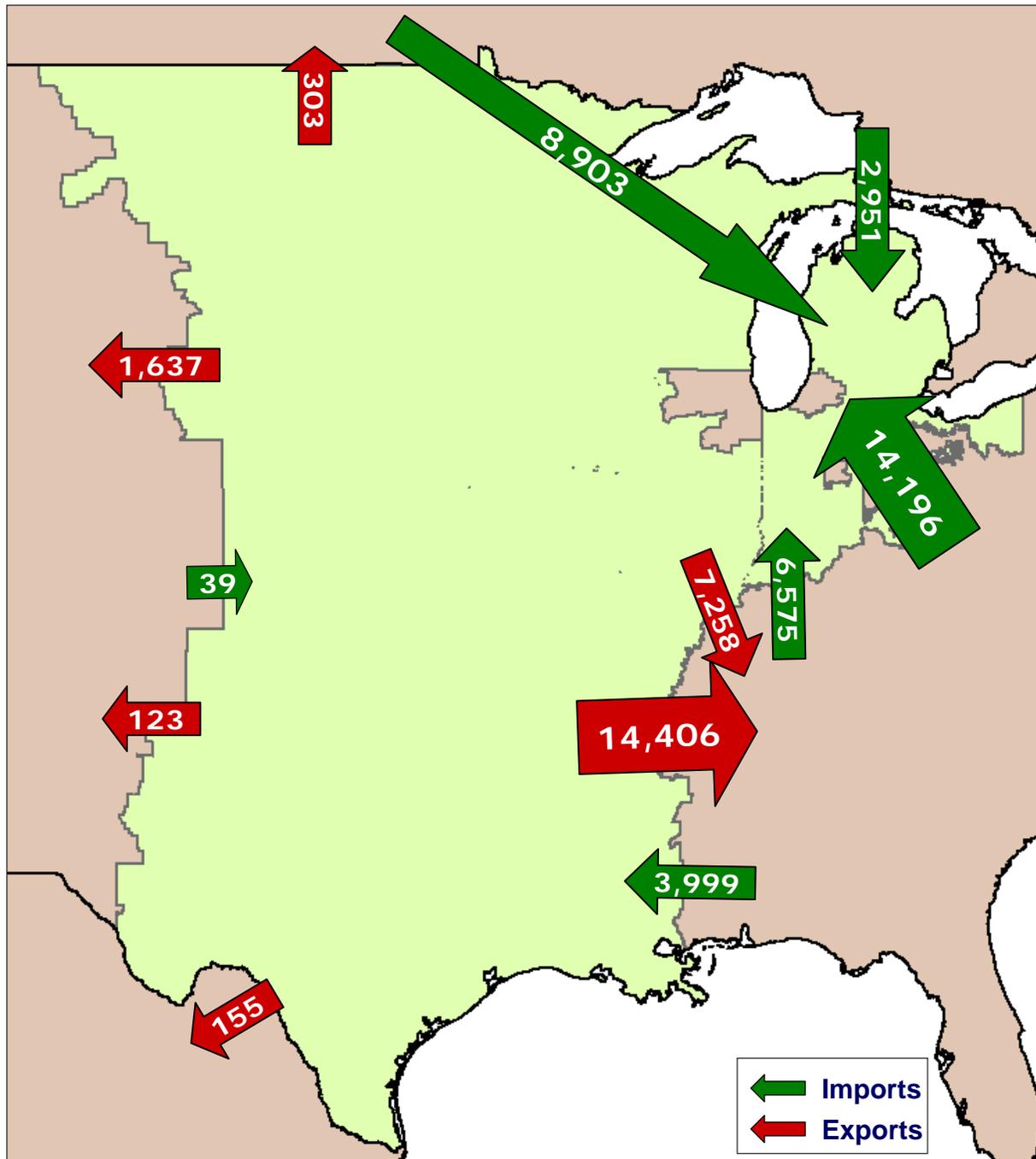
Projected Capacity Additions to 2020

- Projected capacity additions in advanced development and under construction total 31,965 MW.
- Another 64,890 MW are in early development stage.



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

Net inter-regional deliverability 2010 (in GWh)



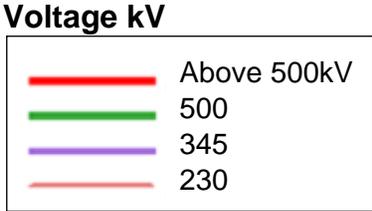
Imports	36,663 GWh
Exports	23,882 GWh
Total Net Imports	12,781 GWh

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

Existing Transmission



kV	Line (Miles)
230	16,474
345	31,038
500	3,212
Above 500	782
Total	51,506

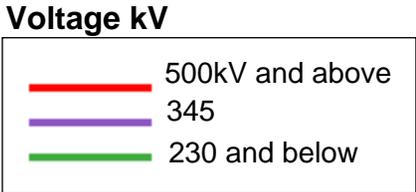


Source: Based on data derived from Ventyx, Velocity Suite, July 2012.

Projected Transmission Projects through 2030



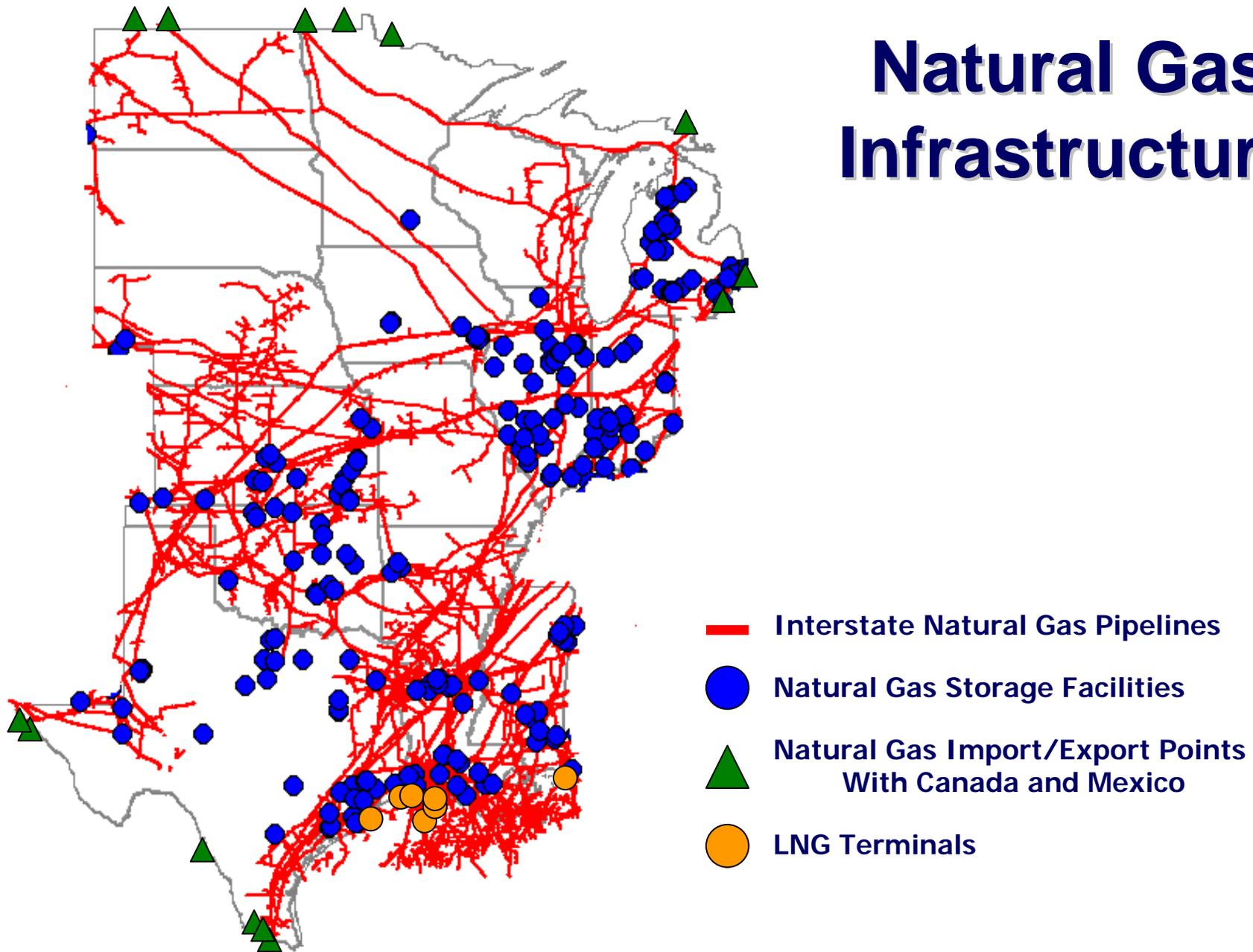
Voltage (kV)	Line (Miles)	Investment Cost (Millions \$)
<= 230	4,491	4,183
345	25,529	47,708
>= 500	11,752	37,086
Total	41,772	88,977



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

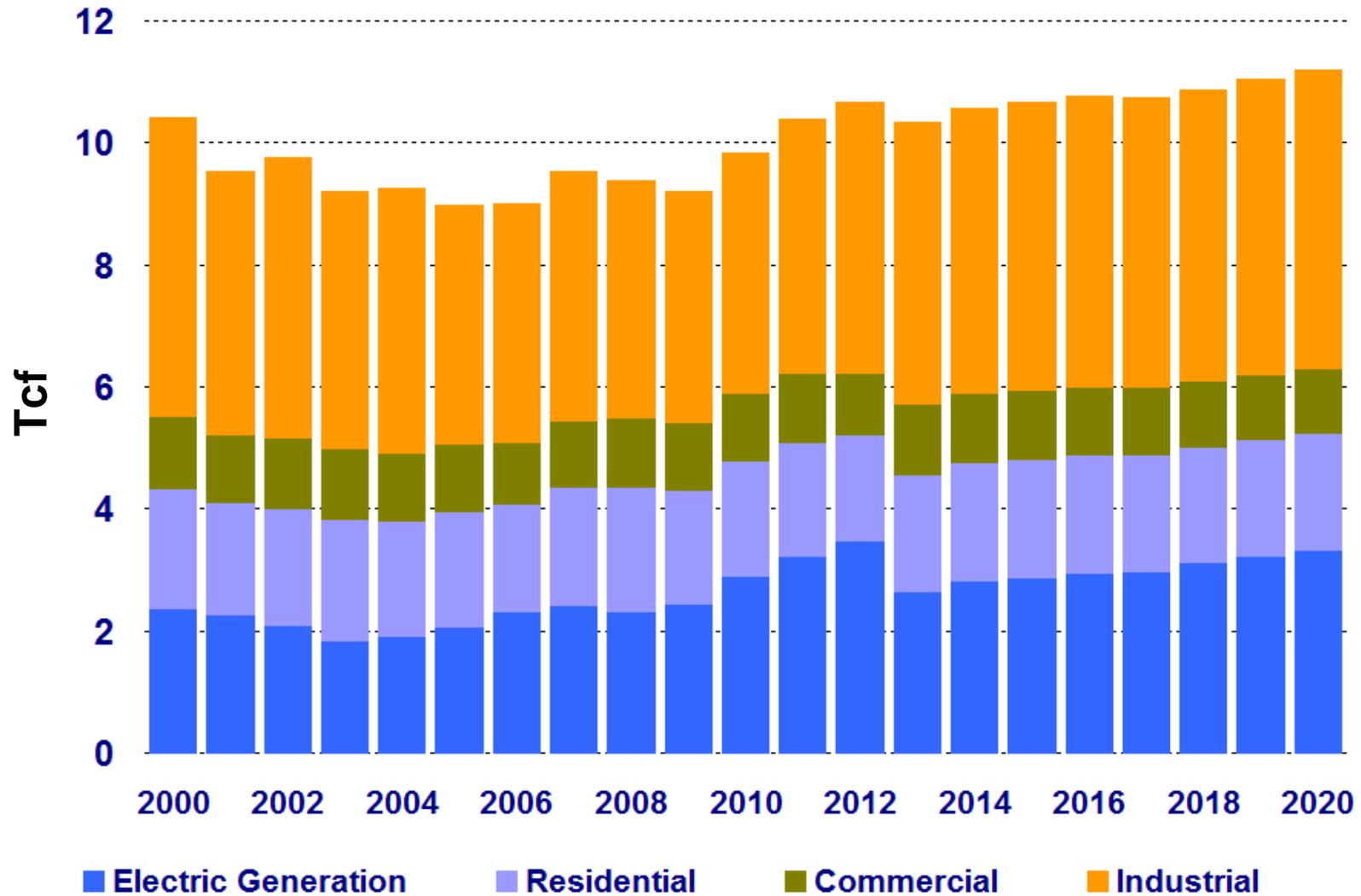
GAS INFRASTRUCTURE

Natural Gas Infrastructure



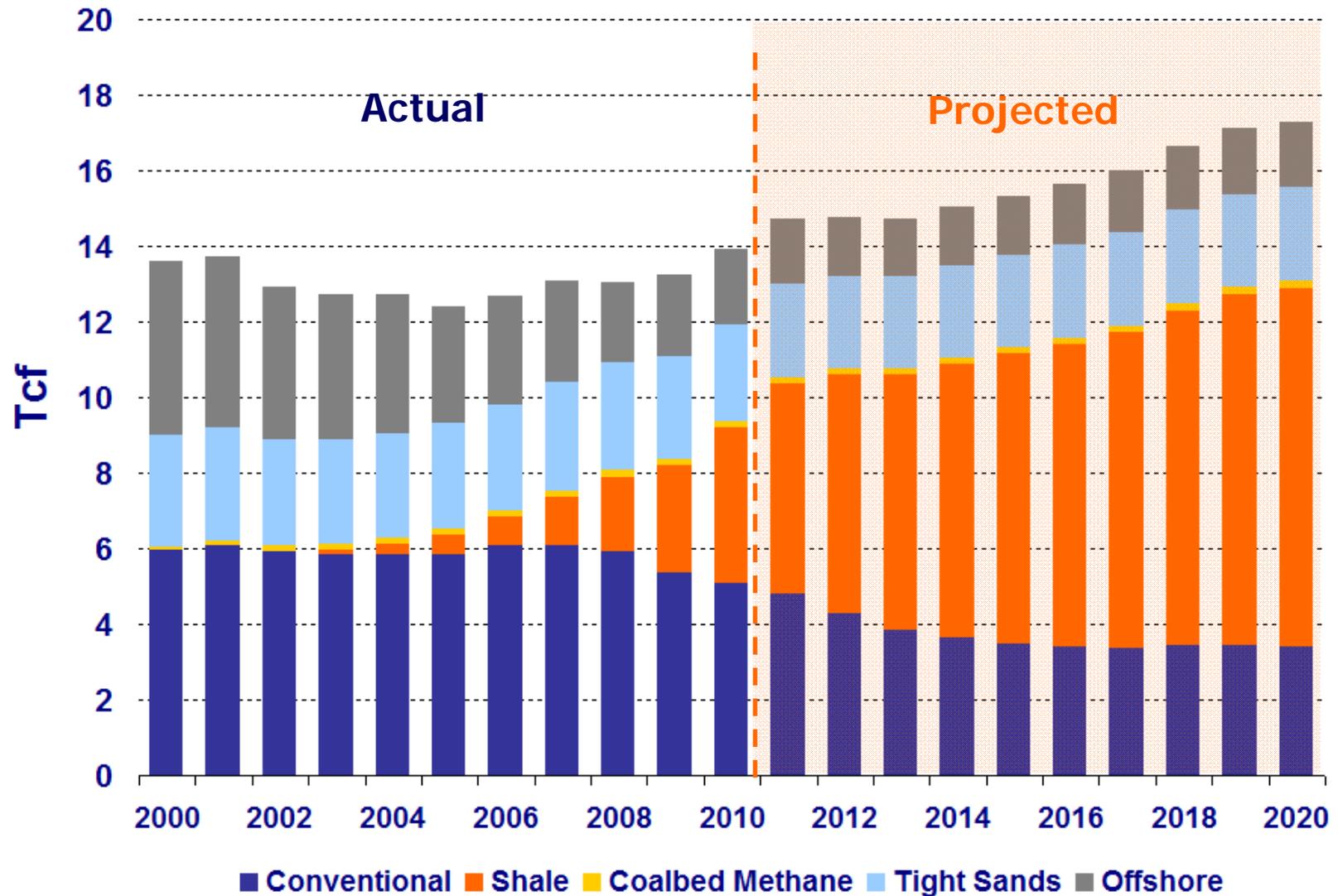
Source: Based on data from Ventyx, Velocity Suite June 2012; ICF International April 2012 Data Base; EIA Storage Spreadsheet; and Fossil Energy 4th Quarter Report 2011

Natural Gas Consumption



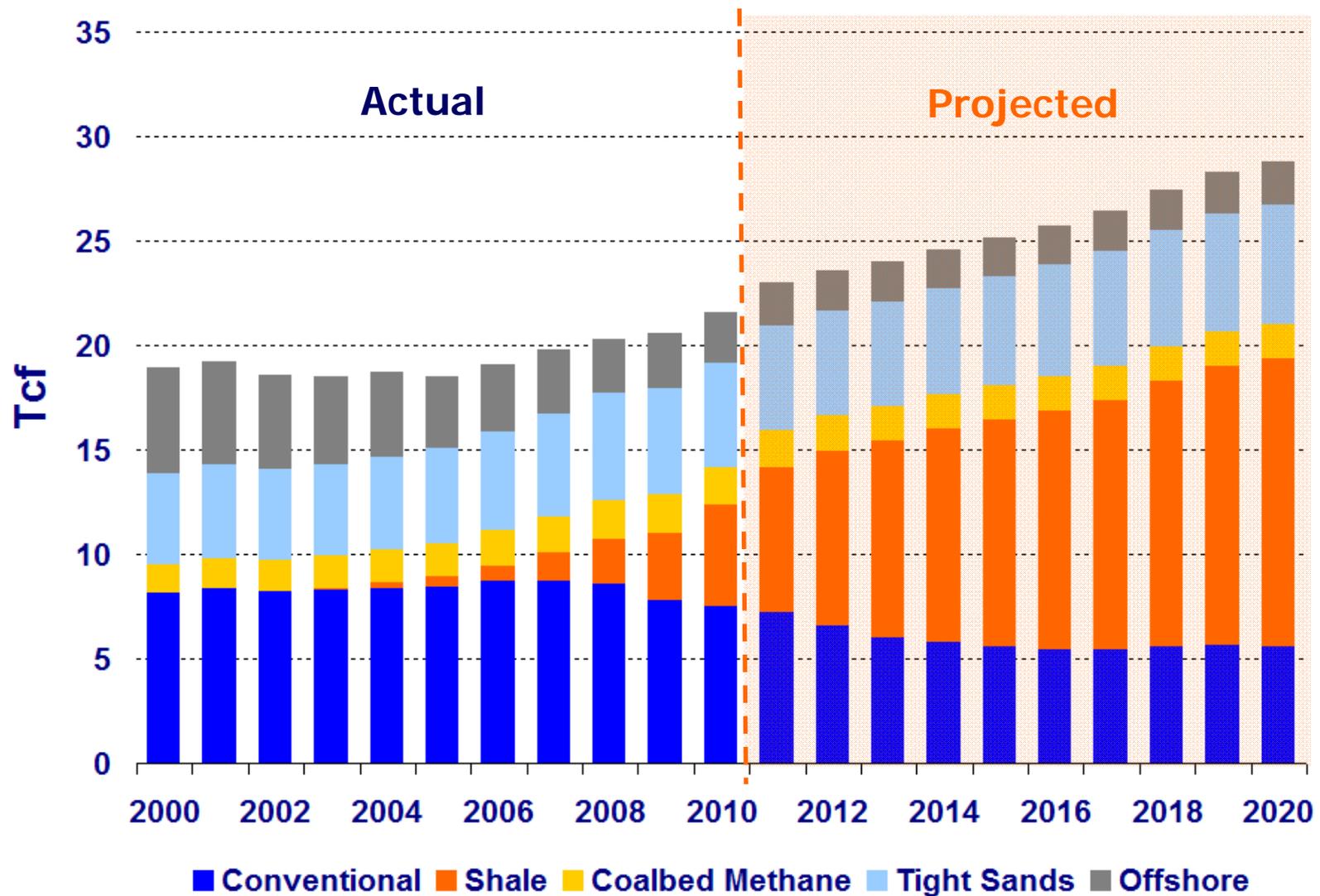
Source: ICF International April 2012 Data Base and Compass Report

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

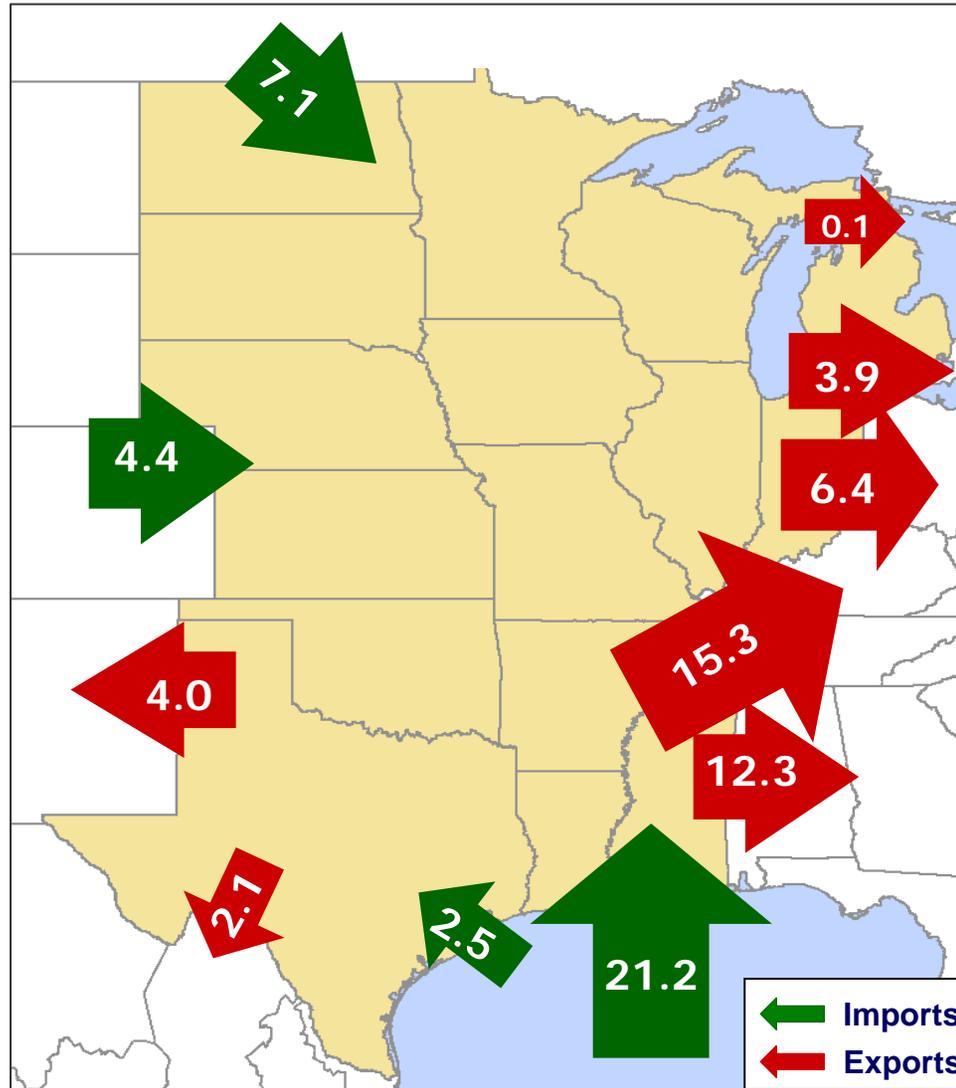
Gas Facts

(In Tcf)

	2010		2020	
	United States	Central	United States	Central
Total Gas Consumption	23.8	9.8	27.7	11.2
Total Gas Production	21.5	14.0	28.8	17.4
Total Working Storage Capacity	4.2	2.5	4.8	2.8
Total LNG Imports	0.43	0.12	0.32	0.07
Total LNG Exports	0	0	1.10	1.10
Total Net Imports from CN	2.5	0.9	0.9	0.2
Total Net Exports to MX	0.3	0.2	0.6	0.4

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

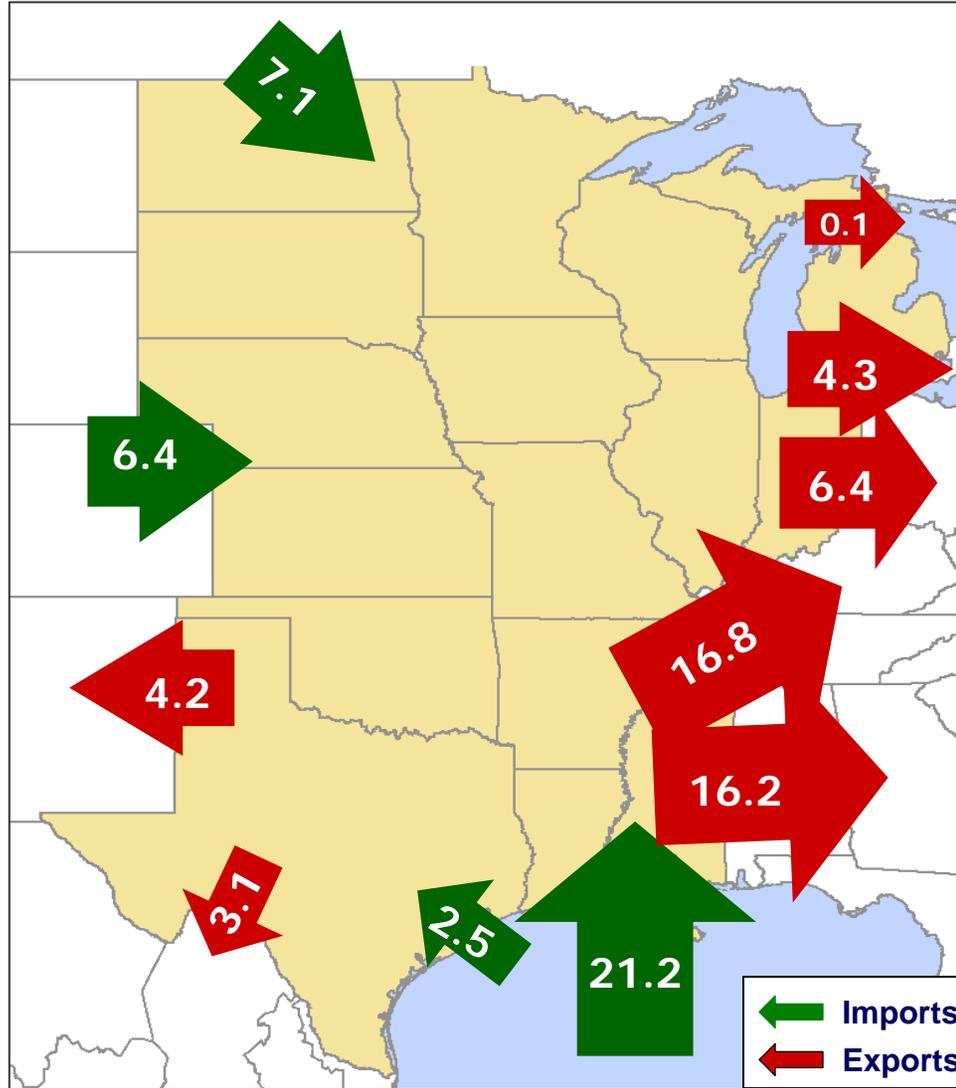
Pipeline Capacity 2010 (in Bcfd)



Imports Capacity 35.2 Bcfd
Export Capacity 44.1 Bcfd

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

Projected Pipeline Capacity 2020 (in Bcfd)



Imports Capacity 37.2 Bcfd
Export Capacity 51.1 Bcfd

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