



Potential Supply of Natural Gas in the United States

***Report of the
Potential Gas Committee
(December 31, 2010)***

**NARUC Committee on Gas
July 18, 2011**



Potential Gas Committee:

***100 Volunteer Geoscientists &
Petroleum Engineers***

***Biennial Assessment - since 1964 – of
the *Technically Recoverable U. S.
Natural Gas Endowment****

***PGC + EIA Proved Reserves = Potential
Future Supply***

Organization of Potential Gas Studies

Potential Gas Committee

Larry M. Gring
President/General Chairman

Darrell L. Pierce
Chairman, Board of Directors

Develops assessment policy and procedures, directs and manages studies of natural gas resources, recruits personnel and supervises work, prepares reports on natural gas resources.

Potential Gas Agency

Colorado School of Mines
(supported by industry)

Dr. John B. Curtis, Director

Approves criteria and methods, insures maintenance of standards and objectivity, reviews and evaluates reports, publishes final assessments of gas resources.



Potential Gas Agency

Colorado School of Mines

Proved Reserves

vs

Resources

- Known gas reservoirs
- Existing economic conditions
- Existing operating conditions



- Discovered
- Undiscovered
- Effects of technology
- Effects of economics



Potential Gas Agency

Colorado School of Mines

Natural Gas Resource Assessment of the Potential Gas Committee, 2010 (mean values)

Traditional Gas Resources **1,739.2 Tcf**

Coalbed Gas Resources **158.6 Tcf**

Total U.S. Gas Resources **1,897.8 Tcf**

Proved Reserves (EIA)* **272.5 Tcf**

Future Gas Supply **2,170.3 Tcf**

* Latest available value (dry gas), year-end 2009



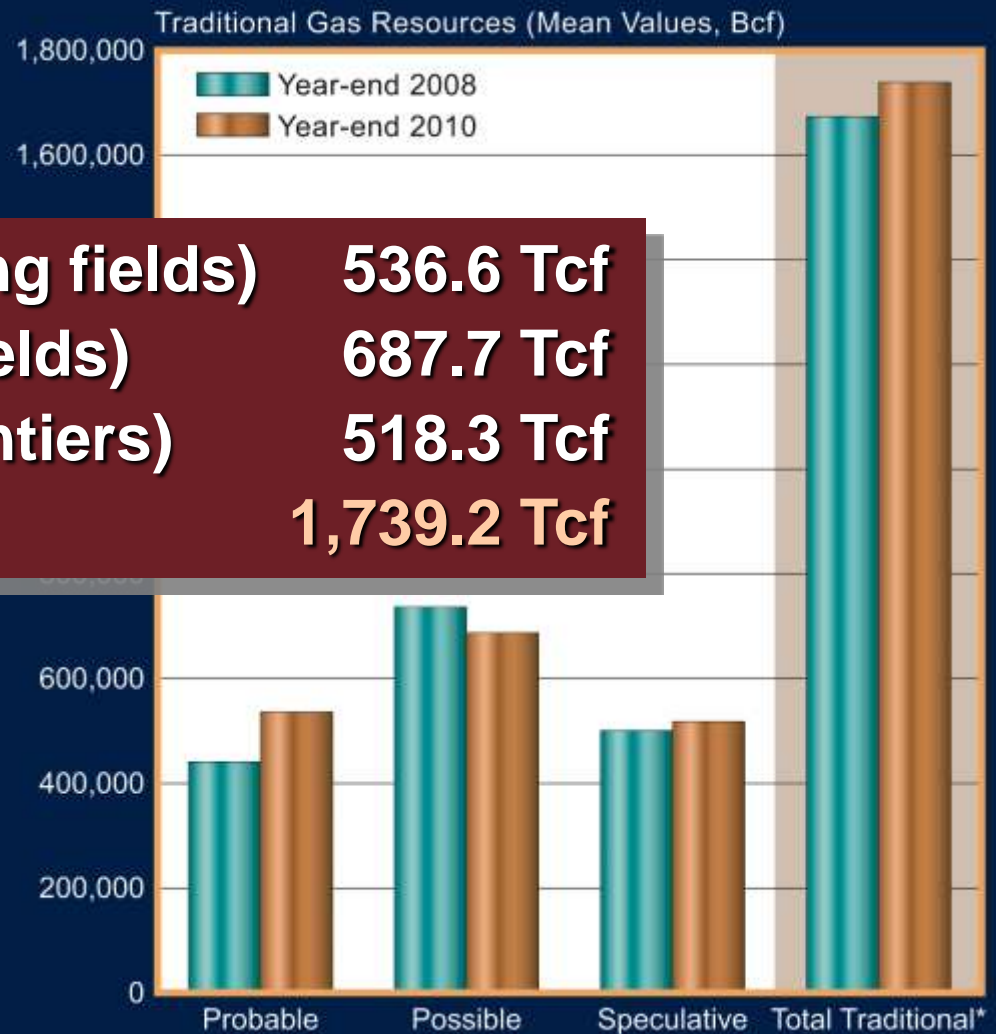
Potential Gas Agency

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PGC Resource Assessment 2010

Total Traditional Resources (mean values) by category

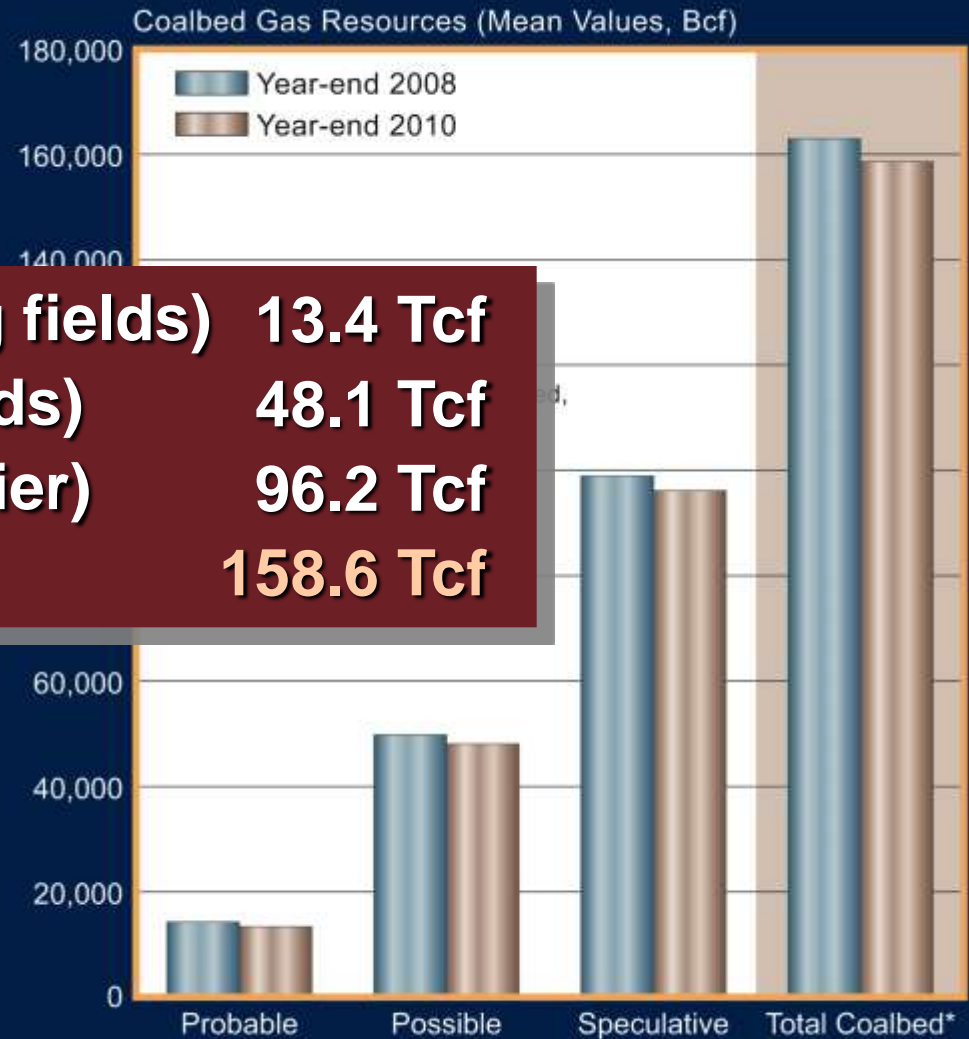
Probable (existing fields)	536.6 Tcf
Possible (new fields)	687.7 Tcf
Speculative (frontiers)	518.3 Tcf
Total	1,739.2 Tcf



PGC Resource Assessment 2010

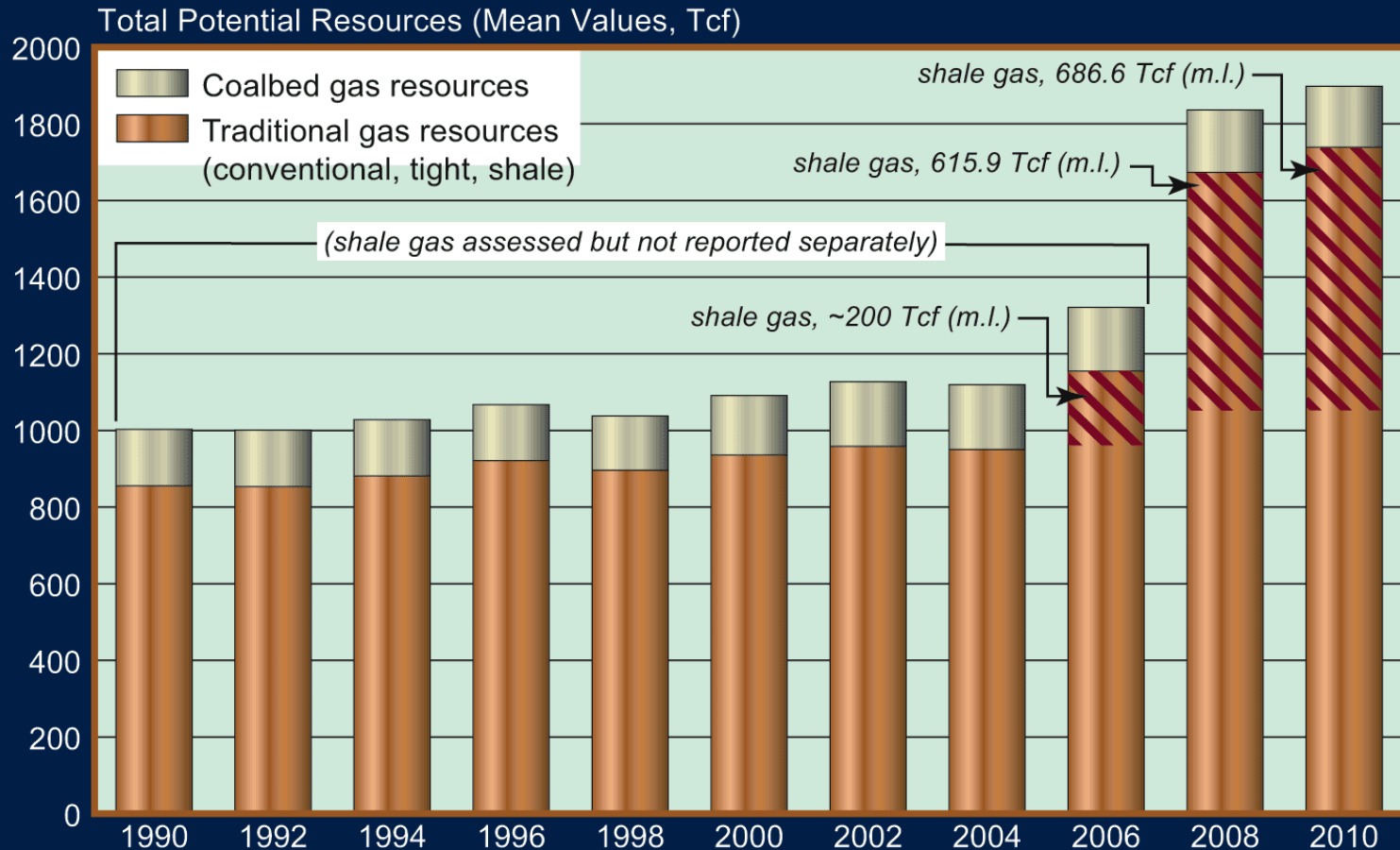
Total Coalbed Gas Resources (mean values) by category

Probable (existing fields)	13.4 Tcf
Possible (new fields)	48.1 Tcf
Speculative (frontier)	96.2 Tcf
Total	158.6 Tcf



PGC Resource Assessments, 1990-2010

Total Potential Gas Resources (Mean Values)



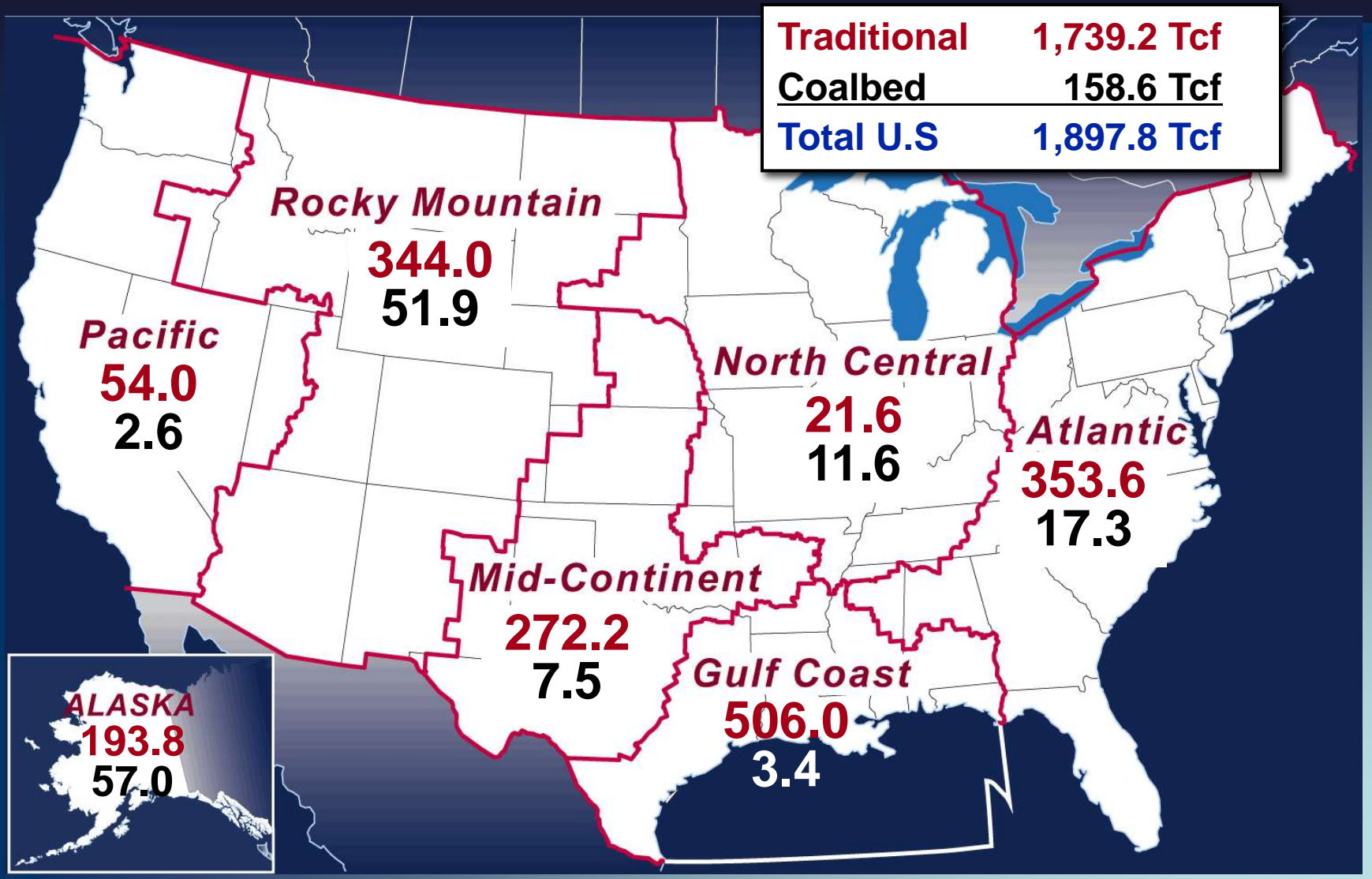
Data source: Potential Gas Committee (2011)

Potential Gas Committee

Determination of Future Supply of Natural Gas in the United States (TCF)

	DOE Reserves	Traditional + Resources	Coal + Gas	Future Supply	Cumulative + Production	Ultimate = Resource
1990	169	855	147	1,172	777	1,949
1992	165	854	147	1,166	815	1,981
1994	164	881	147	1,192	853	2,045
1996	166	921	146	1,234	893	2,127
1998	164	896	141	1,202	933	2,134
2000	177	936	155	1,268	973	2,241
2002	187	958	169	1,314	1,013	2,327
2004	193	950	169	1,312	1,053	2,364
2006	211	1,155	166	1,532	1,091	2,623
2008	238	1,673	163	2,074	1,132	3,206
2010	273	1,739	159	2,170	1,176	3,347

Regional Resource Assessment



Regional Resource Assessment Summary

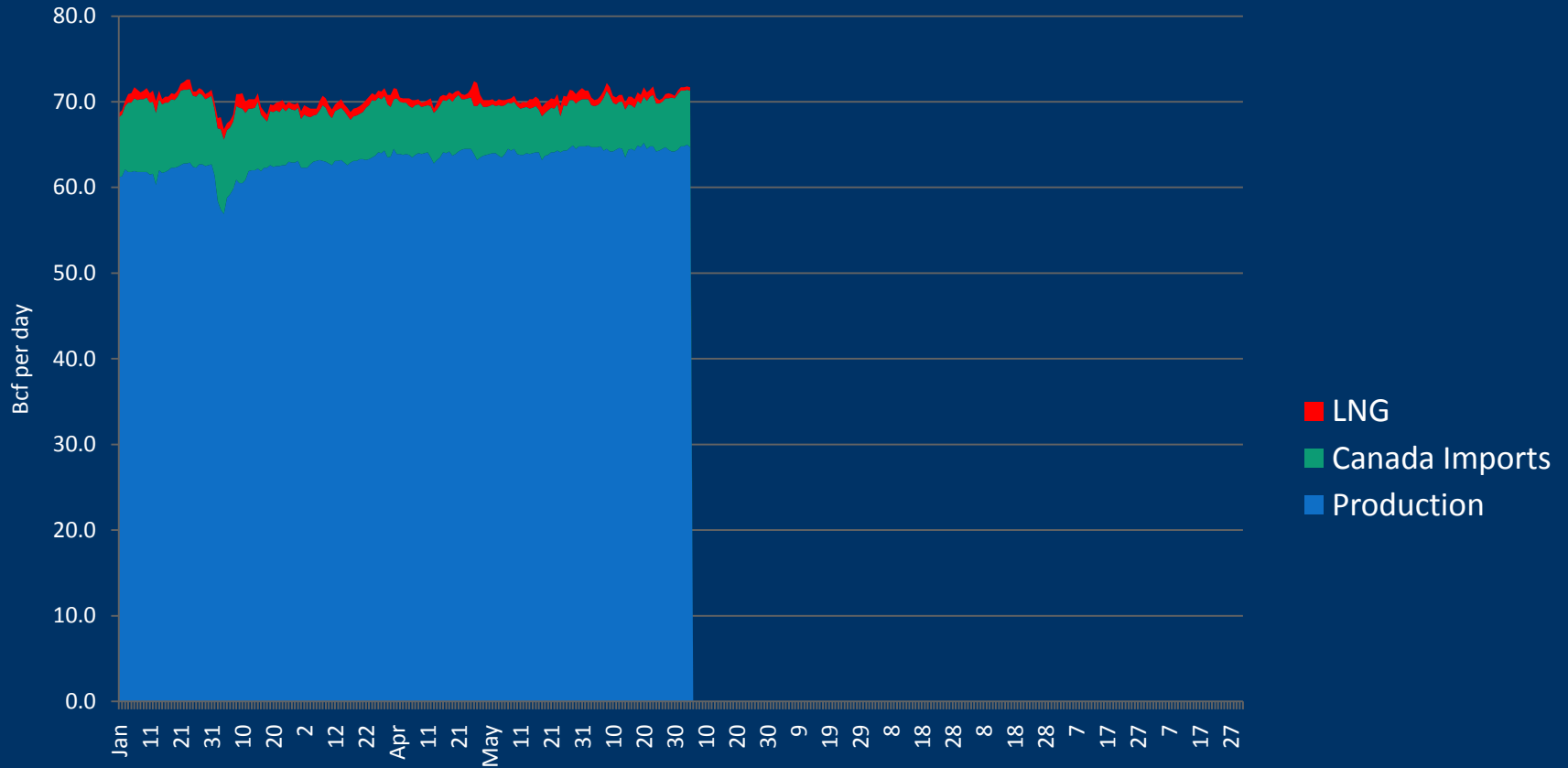
PGC Area	Traditional Gas Resources (Mean, Tcf)	Coalbed Gas Resources (M.L., Tcf)	Total Pot. Resources (Tcf, rounded)	Traditional Proportion of Total US
Gulf Coast	506.0	3.4	509.3	29.0%
Atlantic	353.6	17.3	370.9	20.3%
Rocky Mountain	344.0	51.9	395.9	19.7%
Mid-Continent	272.2	7.5	279.8	15.6%
Pacific	54.0	2.6	56.6	3.1%
North Central	21.6	11.6	33.3	1.2%
Total Lower 48*	1,551.2	94.3	1,739.2	
Alaska	193.8	57.0	250.8	11.1%
Total U.S. (means)*	1,739.2	158.6	1,897.8	

Data source: Potential Gas Committee (2011)

* Separately aggregated totals, not arithmetically additive.

Natural Gas Supply Sources

(January 1-July 5, 2011)



Source: Bentek Energy LLC, *Energy Market Fundamentals*, July 5, 2011.

Thank You!

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