November 14 – 16, 2008

New Orleans, Louisiana

Session V:

Meeting Natural Gas Demand

November 16, 2008

7TH US-EU ENERGY REGULATORS ROUNDTABLE
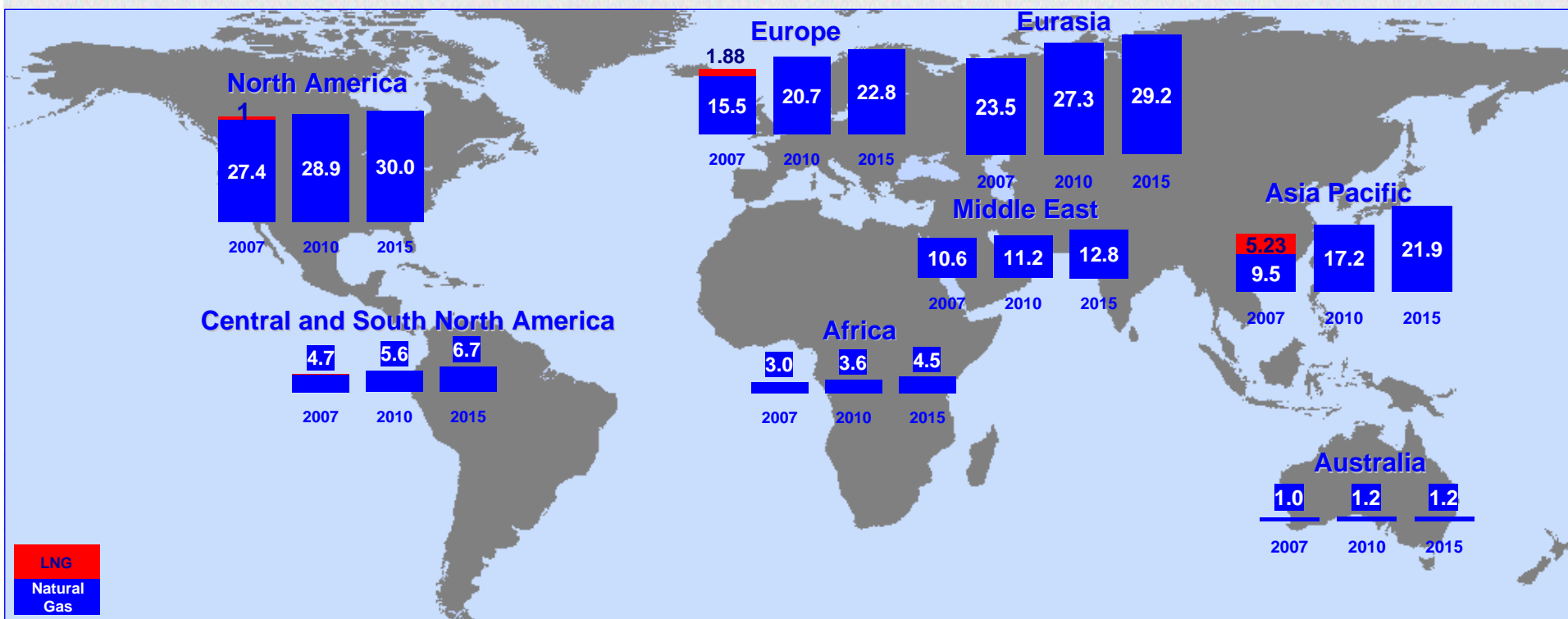
Presentation By

Mark Robinson

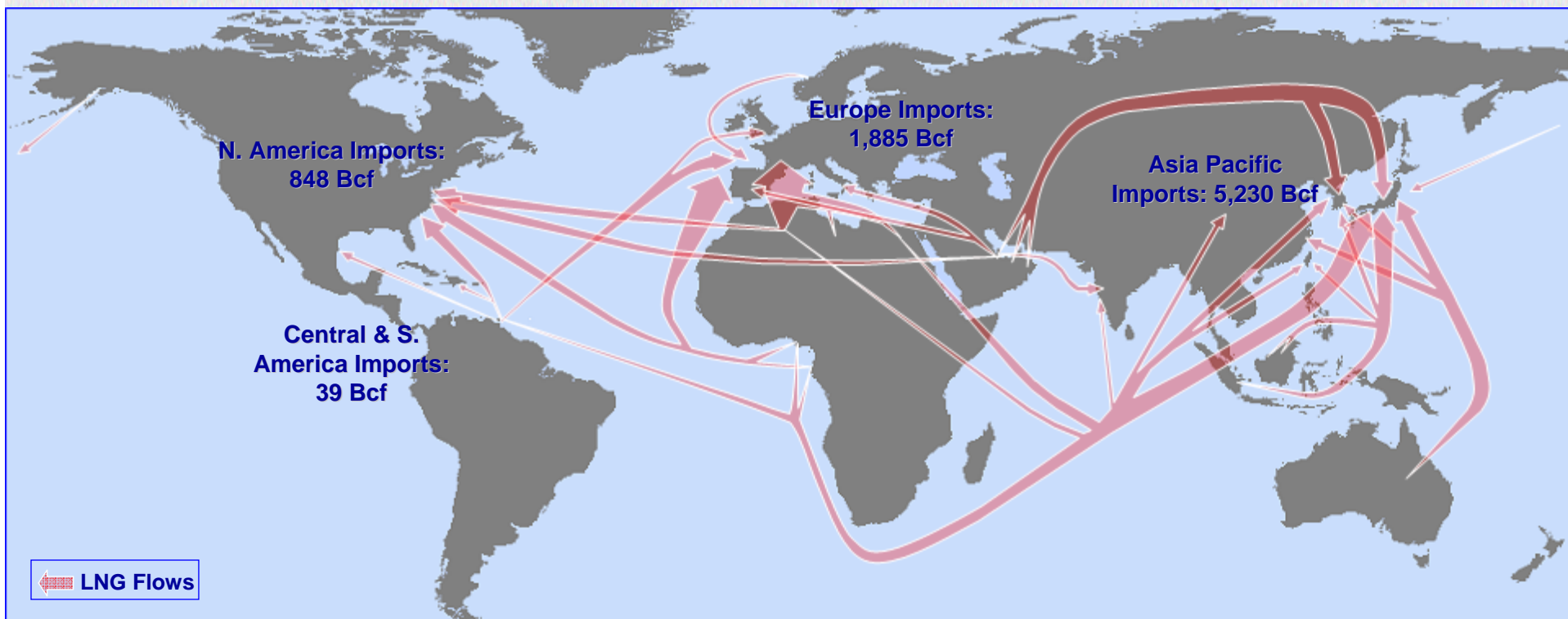Director, Office of Energy Projects

Federal Energy Regulatory Commission

World Gas Consumption (in Tcf)

North America

2007	2010	2015
27.4 (1)	28.9	30.0

Europe

2007	2010	2015
1.88 / 15.5	20.7	22.8

Eurasia

2007	2010	2015
23.5	27.3	29.2

Central and South North America

2007	2010	2015
4.7	5.6	6.7

Middle East

2007	2010	2015
10.6	11.2	12.8

Asia Pacific

2007	2010	2015
5.23 / 9.5	17.2	21.9

Africa

2007	2010	2015
3.0	3.6	4.5

Australia

2007	2010	2015
1.0	1.2	1.2

LNG
Natural Gas

Source: Based on data from BP Natural Gas Consumption 2007, EIA's International Energy Outlook 2008, Table A6, and Ventyx Global Decision LLC, Velocity Suite.
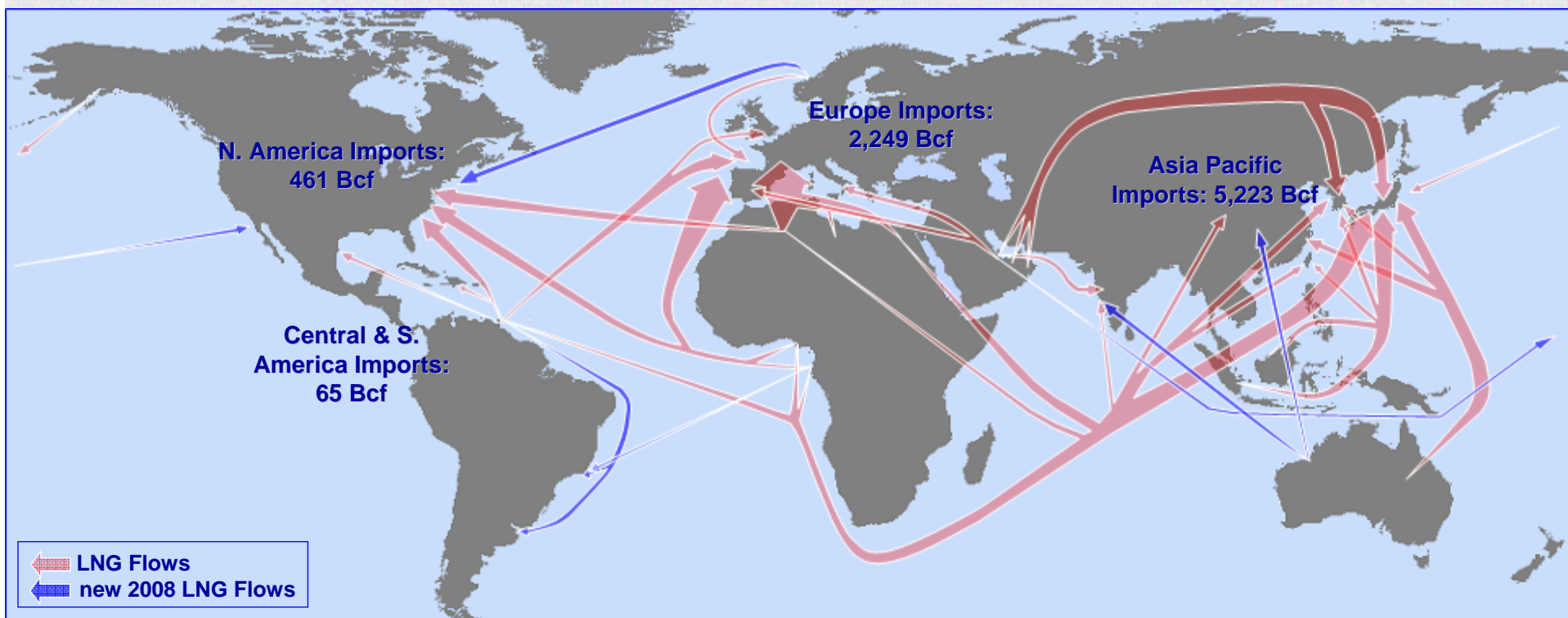
2007 LNG Flow Movements

N. America Imports: 848 Bcf

Europe Imports: 1,885 Bcf

Asia Pacific Imports: 5,230 Bcf

Central & S. America Imports: 39 Bcf

LNG Flows

2008 LNG Flow Movements

N. America Imports:
461 Bcf

Europe Imports:
2,249 Bcf

Asia Pacific
Imports: 5,223 Bcf

Central & S.
America Imports:
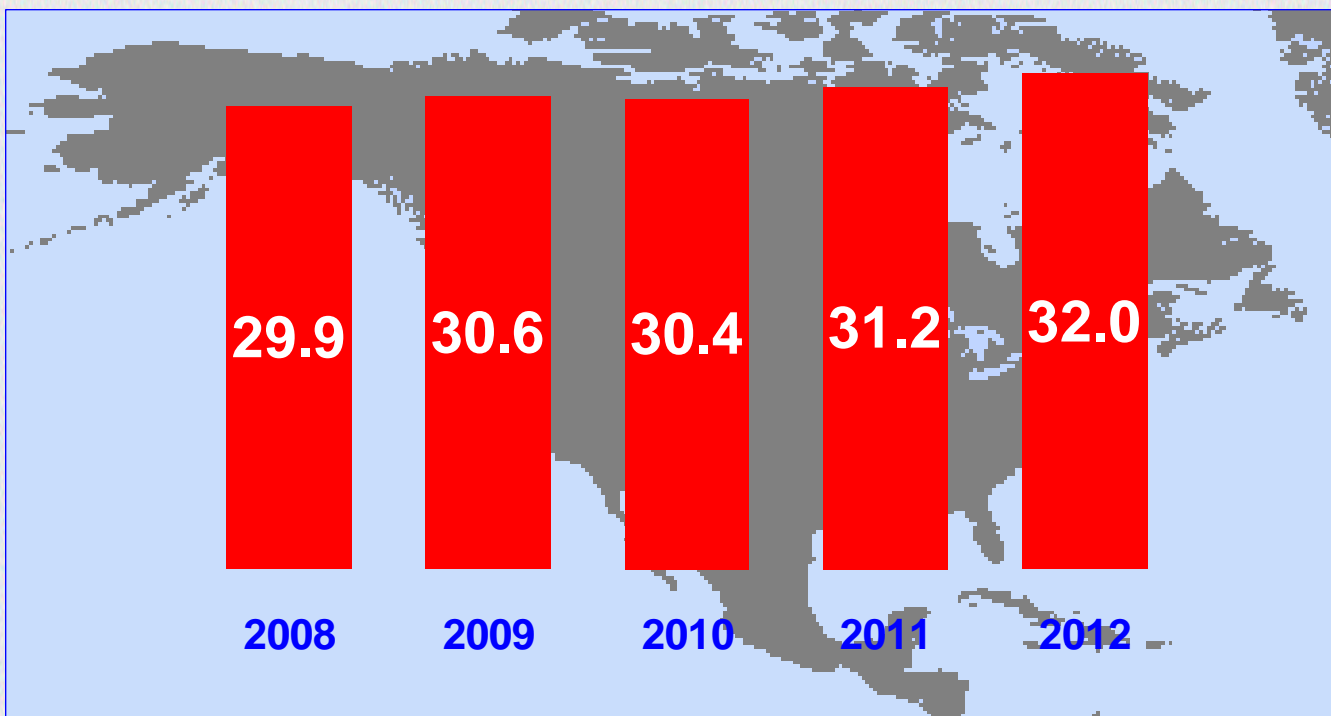65 Bcf

LNG Flows
new 2008 LNG Flows

Variables Affecting LNG Movement

- **Market Structure**

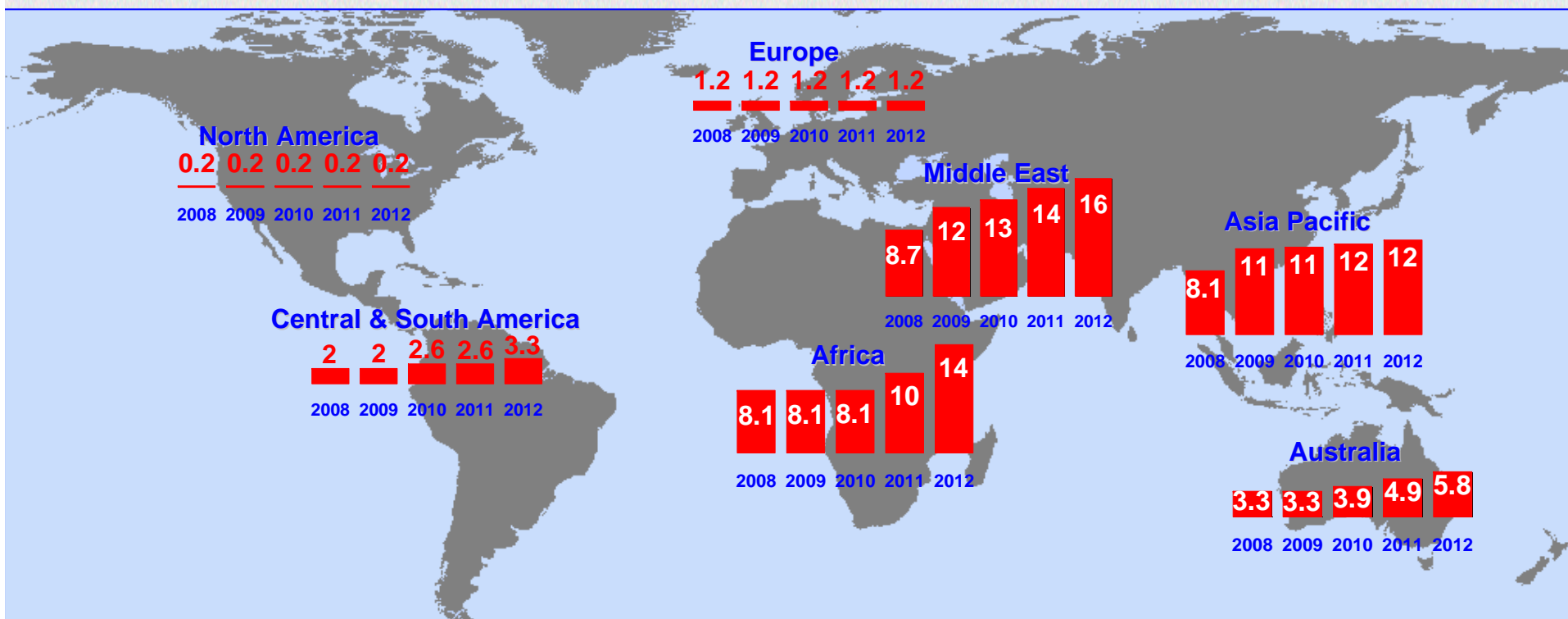- **Domestic Supplies**

- **Liquefaction Capacity**

- **Storage**

North American Domestic Supplies 2008-2012 (Tcf)

2008	2009	2010	2011	2012
29.9	30.6	30.4	31.2	32.0

LNG Liquefaction Capacity by Region (Bcf/d)

Europe

1.2	1.2	1.2	1.2	1.2
2008	2009	2010	2011	2012

North America

0.2	0.2	0.2	0.2	0.2
2008	2009	2010	2011	2012

Middle East

8.7	12	13	14	16
2008	2009	2010	2011	2012

Asia Pacific

8.1	11	11	12	12
2008	2009	2010	2011	2012

Central & South America

2	2	2.6	2.6	3.3
2008	2009	2010	2011	2012

Africa

8.1	8.1	8.1	10	14
2008	2009	2010	2011	2012

Australia

3.3	3.3	3.9	4.9	5.8
2008	2009	2010	2011	2012

Global LNG Liquefaction Capacity (Bcf/d)

28 — 2008
37 — 2009
40 — 2010
45 — 2011
52 — 2012
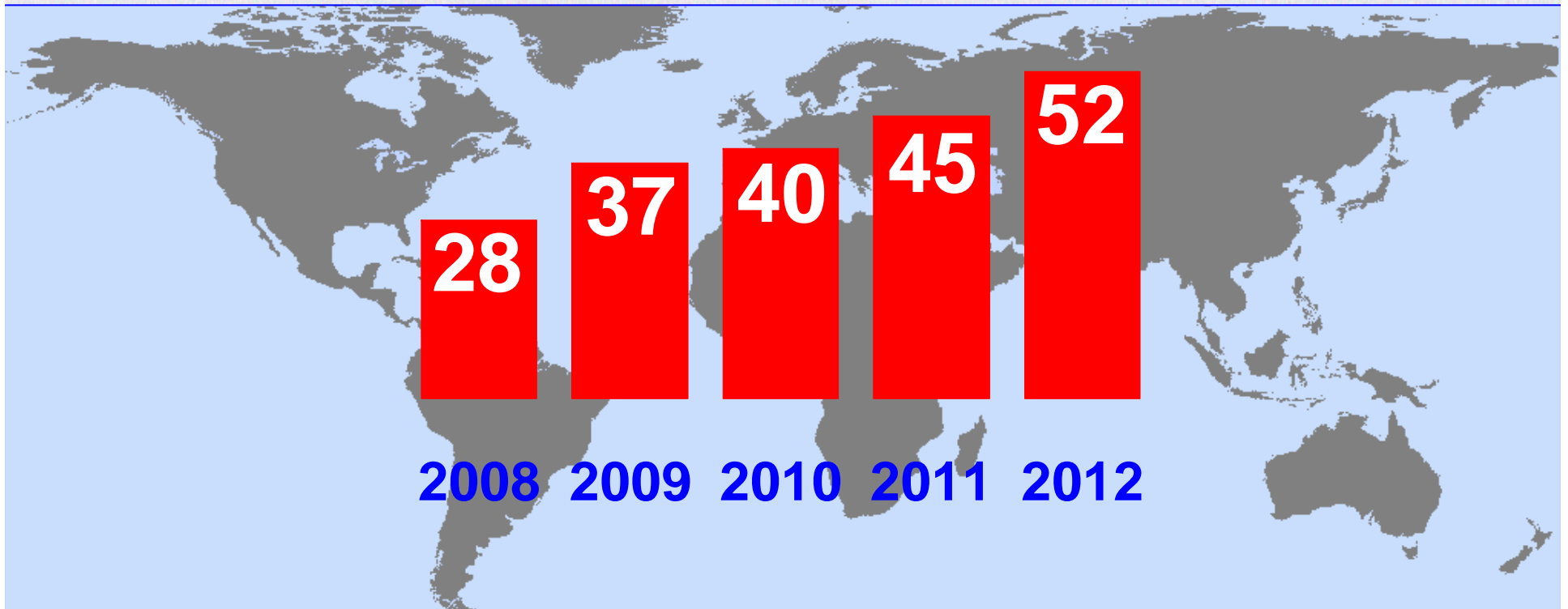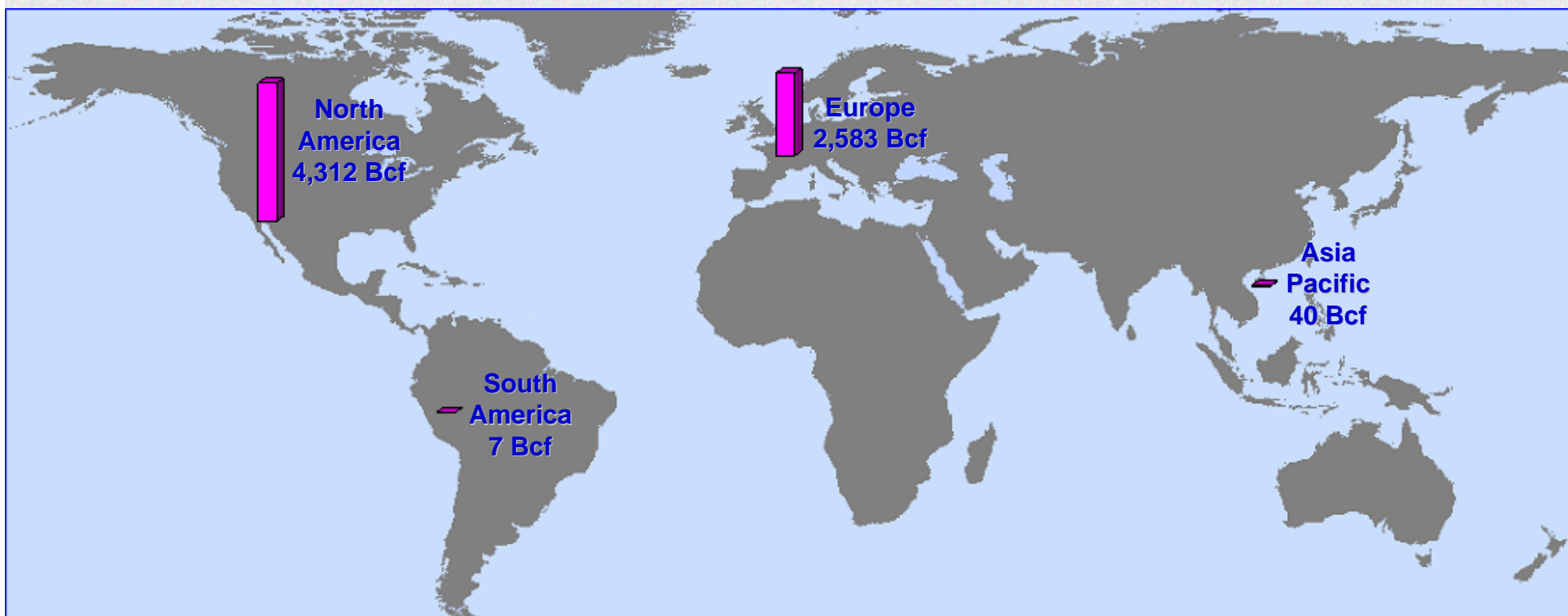
Source: Based on data from Platts LNG Daily's Terminal Trackers, Ventyx Global Decision LLC, Velocity Suite.

Worldwide Working Gas Storage Capacity

North America
4,312 Bcf

Europe
2,583 Bcf

Asia Pacific
40 Bcf

South America
7 Bcf

World Gas Consumption by 2015 (Tcf)
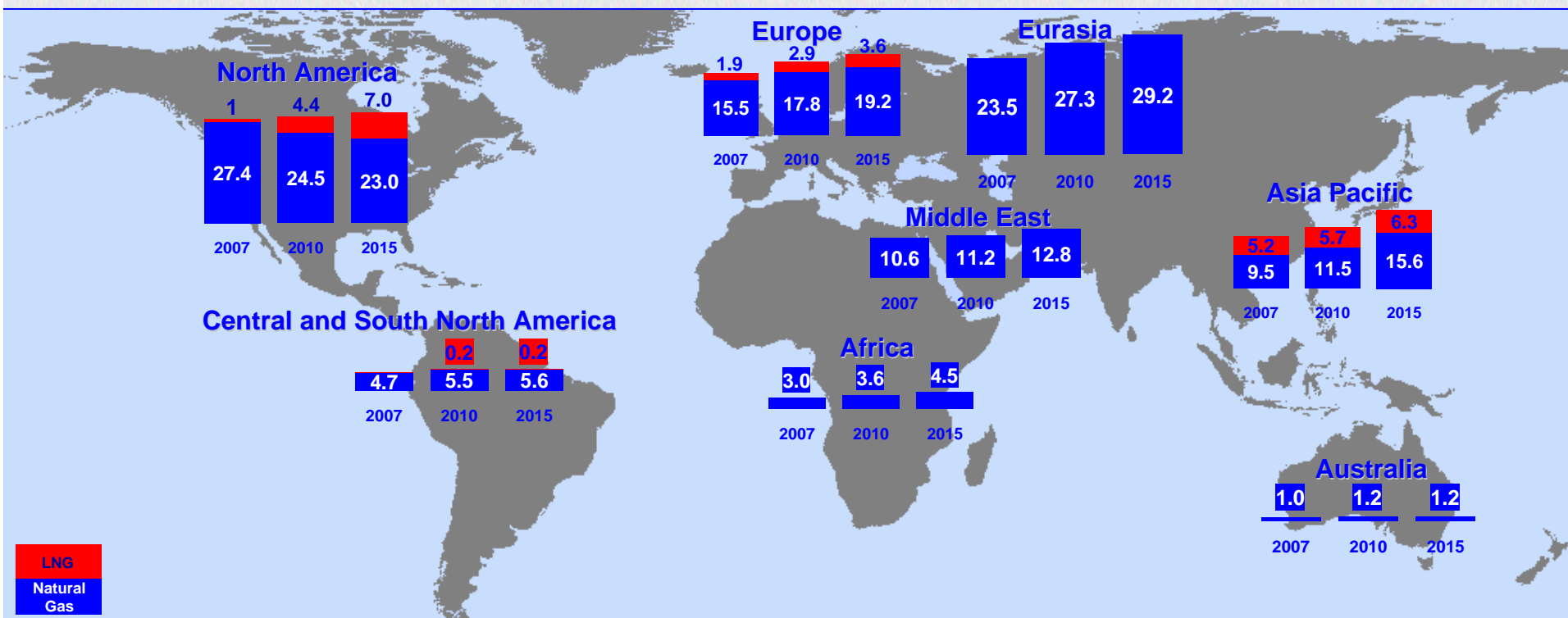
North America
1 4.4 7.0
27.4 24.5 23.0
2007 2010 2015

Europe
1.9 2.9 3.6
15.5 17.8 19.2
2007 2010 2015

Eurasia
23.5 27.3 29.2
2007 2010 2015

Asia Pacific
5.2 5.7 6.3
9.5 11.5 15.6
2007 2010 2015

Middle East
10.6 11.2 12.8
2007 2010 2015

Central and South North America
0.2 0.2
4.7 5.5 5.6
2007 2010 2015

Africa
3.0 3.6 4.5
2007 2010 2015

Australia
1.0 1.2 1.2
2007 2010 2015

LNG
Natural Gas

Source: Based on data from BP Natural Gas Consumption 2007, EIA's International Energy Outlook 2008, Table A6, CERA's Global Demand Outlook and Ventyx Global Decision LLC, Velocity Suite.