



Fueling the Future

Kathryn Clay, Ph.D.
Executive Director
American Gas Foundation

International Gas Union
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In 2000

Fueling the Future



Natural Gas & New Technologies for the 21st Century www.fuelingthefuture.org
This is a preview of the "Fueling the Future" study which reveals that new gas technology will transform the way consumers use energy. It was conducted by Washington Policy and Analysis for the American Gas Foundation and released in February 2000.

Natural gas is
 the cleanest,
 most efficient
 fossil fuel.
 Increased use of
 natural gas
 could help the
 nation meet its
 environmental,
 economic and
 national security
 goals.

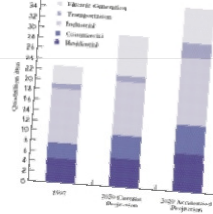
Role of Natural Gas Should Grow

The American Gas Foundation study "Fueling the Future: Natural Gas & New Technologies for a Cleaner 21st Century," addresses a paradox that has faced the U.S. natural gas industry at least since the well-head price of natural gas was deregulated in the early 1980s: *How can a fuel that is domestically abundant, safe and reliable in delivery, more environmentally friendly than oil or coal, and over three times as efficient as electricity from the point of origin to the point of use, power only about one-fourth of the American economy?* This paradox is all the more puzzling given the fact that it has been national policy, as affirmed by successive U.S. presidents going back to Ronald Reagan, to encourage the broader use of natural gas.

"Fueling the Future" proves that a national energy policy encouraging the use of natural gas has not been fully realized. It then outlines a comprehensive overview showing how fulfilling the potential of natural gas would help the United States better meet its energy needs for the next 20 years. Specifically, it addresses the questions of how much natural gas might be used and how, as well as what national benefits — environmental, economic conservation — might result from such increased use.

Released in February 2000, the study forecasts that U.S. consumption of natural gas could rise more than 60 percent — from today's 22 quadrillion Btu (quads) to at least 35 quads over the next 20 years if national policy allows. The study examines two gas consumption scenarios: The "current projection" shows gas demand reaching just under 30 quads in 2020; the "accelerated projection" concludes demand could top 35 quads by 2020. Gas supply will keep up with demand, according to the study.

Natural Gas Consumption Forecasts





A Defining Moment: A quad is a unit of measurement consisting of 1 quadrillion British thermal units. Total U.S. energy consumption is roughly 90 quads per year.

Taxation of Natural Gas: A Comparative Analysis

Prepared for:
Joint House-Passive Subcommittee on
West Virginia Legislation

10/12/2011
Revised 1/17/2012





The Economic and Employment Contributions of Unconventional Gas Development in State Economies

Prepared for:
AMERICA'S NATURAL GAS ALLIANCE


Submitted by:
IHS Inc.
1100 Connecticut Avenue NW, Suite 401
Washington, DC 20036

June 2012




Exporting the American Renaissance
Global impacts of LNG exports from the United States

A report by the Deloitte Center for Energy Solutions and Deloitte MiddleEast LLC





Deloitte Center for Energy Solutions




GLOBAL LNG: NOW, NEVER, OR LATER?

Canadian Energy Research Institute | Research • Independent • Objective





Developing a Natural Gas Trading Hub in Asia
Obstacles and Opportunities



GAFTIME COUNTRY SERIES





2012



The LNG Industry

Macroeconomic Impacts of LNG Exports from the United States





Natural Gas in the U.S. Economy: Opportunities for Growth

Robert Ring
Specialist on Energy Economics
Michael Kiefer
Specialist on Energy Policy
November 6, 2012

Congressional Research Service
7-5700
www.crs.gov
RSR12-068

CRS Report for Congress
Published Monthly as a Service of Congress



Golden Rules for a Golden Age of Gas


World Energy Outlook
Special Report on Unconventional Gas

AUTHORS:
Drew A. Hendon
Sarah O. Ladlow
David L. Pomperoy
Frank A. Sterner
Molly A. Watson



APRIL 2012

Realizing the Potential of U.S. Unconventional Natural Gas

A Report of the CIGS Energy and National Security Program



CSIS | CENTER FOR STRATEGIC AND INTERNATIONAL STUDIES


Characterizing Pivotal Sources of Methane Emissions from Unconventional Natural Gas Production

Summary and Analysis of API and ANGA Survey Responses

FINAL REPORT
JUNE 1, 2012

The Future of Natural Gas

AN INTERDISCIPLINARY MIT STUDY




Northeastern Pennsylvania Marcellus Shale Short-Term Ambient Air Sampling Report

January 13, 2011
Commonwealth of Pennsylvania
Department of Environmental Protection

Edward Bostick, Governor
Commonwealth of Pennsylvania
John Hanger, Secretary
Department of Environmental Protection

Prepared by:
PA DEP, Bureau of Air Quality
www.depweb.state.pa.us



Natural Gas and the Transformation of the U.S. Energy Sector: Electricity

Jeffrey Logan, Garvin Heath, and Jordan Macknick
National Renewable Energy Laboratory
Elizabeth Paranhos and William Boyd
University of Colorado Law School
Ken Carlson
Colorado State University

The Joint Institute for Strategic Energy Analysis is operated by the Alliance for Sustainable Energy, LLC, a limited liability partnership of Battelle Memorial Institute Energy Laboratory, the University of Colorado at Boulder, the Colorado School of Mines, the Colorado State University, the Massachusetts Institute of Technology, and Stanford University.

Technical Report
NREL/TP-6A20-5218
November 2012
Contract No. DE-AC02-08OR21400

Global LNG
Will new demand and new supply mean new pricing?



ENR & YOUNG
Consulting & Engineering Inc.

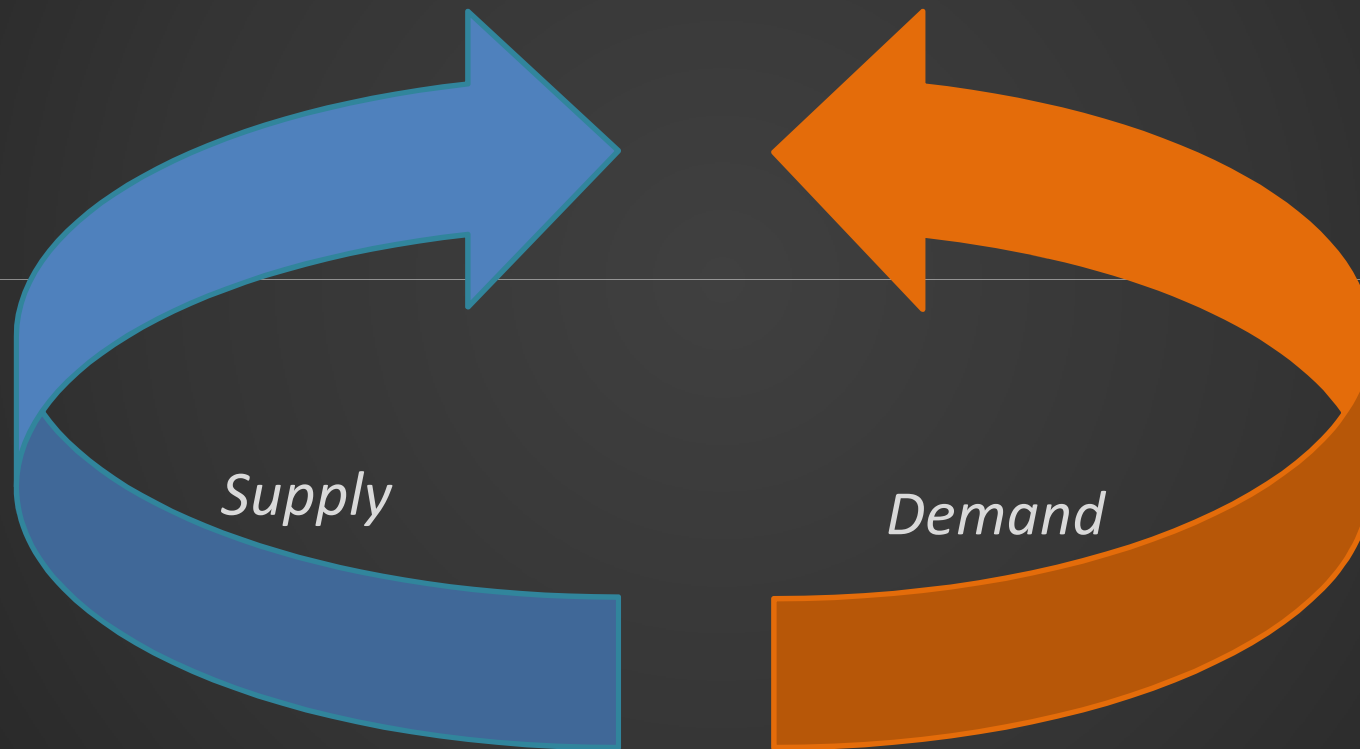
Our Goal for *Fueling the Future 2013*

*Stand apart from the crowd –
by telling the LDC story.*

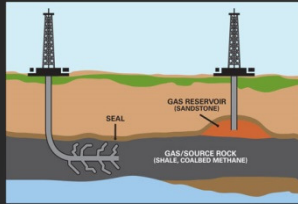
Shale Gas Plays in the United States



How can we encourage “abundant demand” to realize the benefits of abundant supply?



A National Look at Natural Gas Demand Potential:



Supply



Economic
Impacts



Environment



Energy Efficiency



Power
Generation



Industrial



Residential/
Commercial

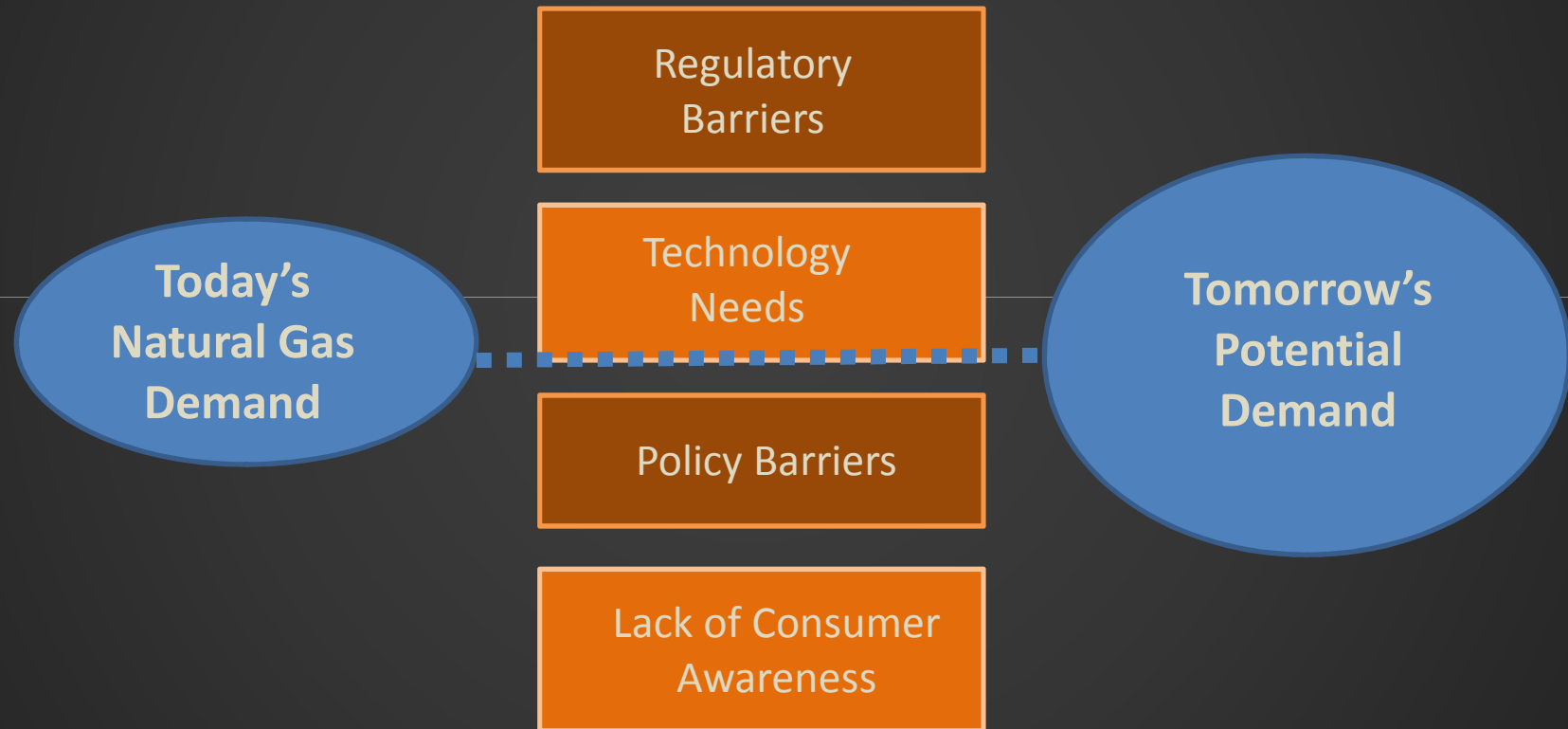


Transportation



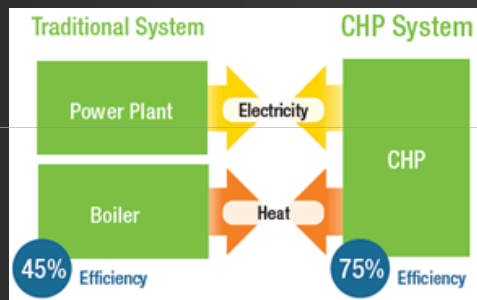
Export

Fueling the Future identifies innovative approaches to overcome barriers.



Growth opportunities – What are the potential game changers?

Combined Heat and Power



Natural Gas Vehicles



Fueling the Future Program Elements

1

*Content Production &
Industry Alignment*

Rich Digital Media Production
Social Media Planning
Document Sharing Hub
Industry Alignment

2

*Hard
Launch*

D.C. Press Event
Media & Influencer Outreach
Op-ed

3

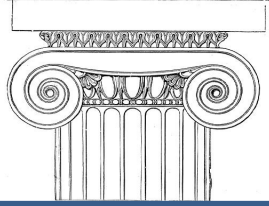
*New York
City Plan*

Salon
Media & Influencer Meetings

Ongoing: Messaging, Materials, Monitoring, Metrics, Search

Georgetown University Energy Prize

- Launching in February 2014 in Washington D.C. with DOE Secretary Moniz
- \$5 million purse
- Open to communities with populations 5,000 to 200,000
- Two-year competition on reducing electric and natural gas consumption in residences and municipal buildings
- Figure of merit is **full fuel cycle efficiency**
- An on-line “dashboard” will use data visualization to help educate consumers in competing communities



American Gas Foundation

Comments or
Questions

kclay@aga.org

202-824-7122