

# **America's New Energy Foundation**

JANUARY 21, 2015



#### Proactive Efforts to Reduce Emissions

In 2014, AGA's Board of Directors approved a set of voluntary guidelines that may lead to further emissions reductions.

AGA has been a strong supporter of EPA's Natural Gas STAR program, a voluntary partnership that encourages natural gas companies to adopt cost-effective technologies and practices that improve operational efficiency and reduce natural gas emissions, since its inception in 1993.

According to the EPA, the 49 AGA member companies participating in the Natural Gas STAR program reduced natural emissions by 1.0 Bcf in 2012 and a total of 45.4 Bcf since 1993.



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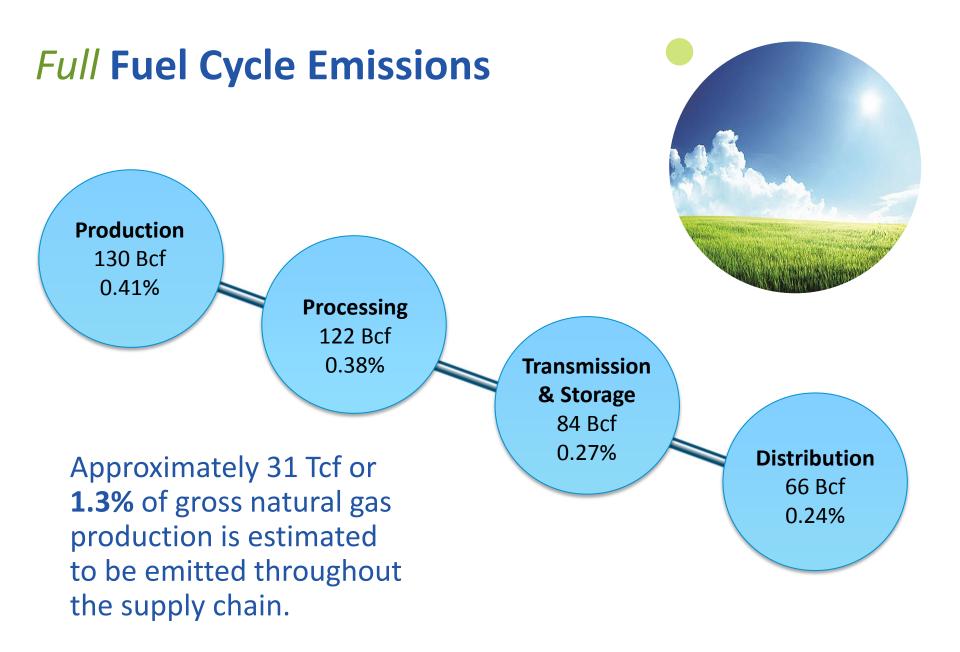
The natural gas industry is actively engaged in science-based analyses to help improve the quality of data publically available regarding natural gas emissions to help ensure an understanding of the valuable role this fuel will play in our nation's clean and secure energy future.



Emissions from natural gas distribution pipelines have been reduced by

+22% since 1990

Throughout the country, natural gas utilities are upgrading pipeline systems to make them safer and are driving down emissions in the process.



Source: U.S. Department of Energy and U.S. Environmental Protection Agency

# Safety: A Core Value

- Recently announced the firstever peer-to-peer safety and operational practices review program.
- The Downstream Natural Gas Information Sharing and Analysis Center (DNG ISAC) is a platform for sharing cyber and physical threat intelligence, incident information, analytics and tools.
- AGA Chairs the Oil & Natural Gas Sector Coordinating Council Cybersecurity Working Group.





# **Upgrading** and **Expanding**

- Pipes that may no longer be fit for service are being replaced with ones made from more modern materials.
- 17.5 million additional customers in the past decade.
- Working with state regulators, legislators and other key stakeholders to enhance system integrity and support increase access to natural gas.



have adopted or considered innovative expansion proposals, and that number continues to grow.

#### Production

Volume of gas produced from proved reserves

#### Consumption

Volume consumed by all users



#### Reserves

334 Tcf

Known quantities of gas associated with wells drilled, completed and producing

#### Potential Resources

Technically recoverable sources of gas not yet discovered 2,384 Tcf (Trillion Cubic Feet) AGA expects that for the next decade and beyond, domestic natural gas supplies will be sufficiently robust to meet growth in demand across all sectors.



# Promise Delivered ARR RECORD PERFORMANCE

The United States faced sustained cold and record-setting natural gas consumption during the winter of 2013-2014.





#### THE RESULT

Natural gas reliability was tested and across the country local utility customers continued to receive dependable service at affordable prices.



# **Supply Meeting** *Record* **Demand**

**Increased Demand** 

- 129 Bcf consumed on January 7, 2015
- 131 Bcf consumed on January 8, 2015
- Averaging 2.4 Bcf per day more than we did in January 2014

Working Gas in Underground Storage

- 3,089 Bcf total
- 250 Bcf ahead of last year

Production

- Between 70 and 72 Bcf per day
- 6.3 Bcf per day higher than in January 2014

Natural gas prices have remained under

per MMbtu

# Natural Gas

# Market Indicators



Published twice a month, it summarizes recent developments in:

- pricing
- heating and cooling degree days
- storage
- production
- rig counts
- imports and exports
- international LNG issues

## Direct Use of Natural Gas

Households that use natural gas for heating, water heating, cooking and clothes drying:

- Save an average of \$693 per year.
- Produce 37% lower greenhouse gas emissions.

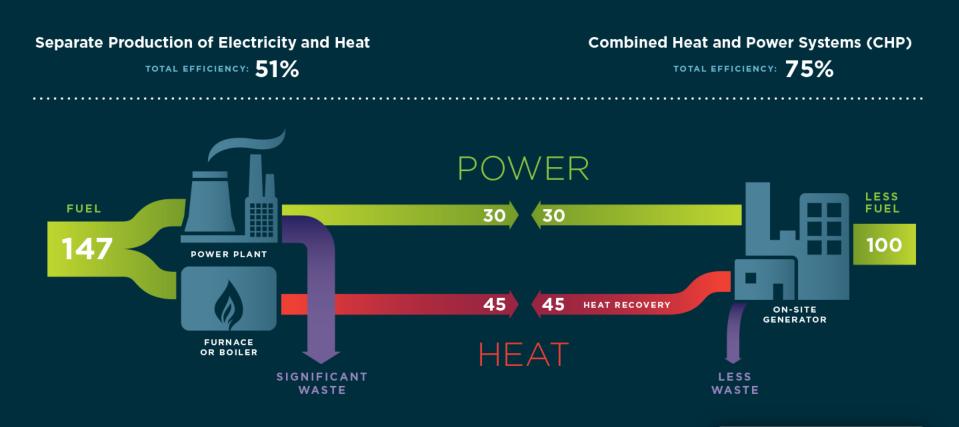




Consumers can immediately save on their monthly utility bills through converting their households to natural gas.

# **Combined Heat and Power Technologies**

The use of natural gas, the preferred fuel choice for CHP applications, allows for new electricity generation to meet current and future demand at costs up to 50% less than traditional forms of delivered new baseload electricity.



# On the Go

- Number of CNG stations in the U.S. has grown by over 11% each year since 2008.
- 153% growth in the nation's LNG refueling infrastructure since 2009.
- Several major automobile manufacturers will offer natural gas powered vehicles in the U.S. consumer market in the next few years.



NGVs produce 20 to 30% fewer tailpipe emissions than today's gasoline vehicles.

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