

# Clean Technology

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## Natural Gas: A Bridge, Enabler and a Destination – Implementation

*Donna N. Peeples*

*VP & CMO AGL Resources*



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# AGF - Observations for Natural Gas

*People don't use Natural Gas...appliances do!*

- Market Supply
- Demand drivers for natural gas remain strong
- Use for power generation expected to increase significantly
- GHG emissions regulations likely to put further strain on the market (*ala* Markey/Waxman)

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- Direct use of natural gas delivers **90%** energy efficiency to end users – as compared to **27%** end use efficiency when natural gas is used to generate electricity
- Direct use of natural gas in space heating and water heating results in **40% less CO2** emissions than electricity

## **Direct Use of Natural Gas**

*Implications for Power Generation,*

*Energy Efficiency, and Carbon Emissions*

Study Conducted by Black & Veatch Corporation

February 2008 - [www.gasfoundation.org/ResearchStudies/directuse.htm](http://www.gasfoundation.org/ResearchStudies/directuse.htm)



# Natural gas: America's Clean, Secure, Efficient and Abundant Fuel

- America's residential natural gas customers have led the nation in reducing the emission of GHGs over the last 30 years and can continue with the appropriate policies, to reduce those emissions. **It takes less natural gas to serve 65 million homes today than it took to serve about half of that number in 1970**
- Natural gas is not part of the climate change problem; rather it is part of **the climate change solution** because it offers an immediate answer with existing technology and has the smallest carbon footprint of all fossil fuels <sup>1</sup>
- The plain consequence is that the nation can **reduce it's carbon footprint by opting for appliances that use natural gas in direct applications**. The opportunity represented would reduce carbon emissions by millions upon millions of tons if we utilize more natural gas directly in homes and businesses as fuel for the future<sup>1</sup>
- Natural gas is an environmentally-friendly choice customers can make today. Natural gas is efficient, reliable and clean burning. Choosing natural gas today means we can all help **save energy, decrease our reliance on oil, reduce emissions and protect the environment without compromising performance or lifestyle**<sup>2</sup>

<sup>1</sup>From the direct testimony of John W. Somerhalder II, Chairman, CEO and President of AGL Resources, Inc. on behalf of the AGA to the US House Committee on Energy and Commerce Subcommittee on Energy and Environment – April 23, 2009

<sup>2</sup>Council for Responsible Energy – natural gas brand promise – [www.comfortableresponsible.org](http://www.comfortableresponsible.org)

# Study Findings

Increased use of natural gas in direct use applications can:

- Decrease energy consumption
- Decrease power generation needs
- Reduce overall energy cost
- Reduce CO<sub>2</sub> emissions

