

INGAA 2020 Priorities

The Pipeliners Association of Houston
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Vice Chair, INGAA Foundation



INGAA
FOUNDATION

What do you do for a living?

My answers...

My job is to lower your energy bills

- I help lift people across the world out of poverty by raising their standard of living
- I build critically needed energy infrastructure that has helped make the United States the world's largest natural gas exporter and generates jobs & tax revenues for local economies
- I promote the safety and energy security of our country and our allies abroad

Natural gas

...and the infrastructure that delivers it are deeply interwoven into our economy

- And society is better for it
 - Millions of small businesses – dry cleaners, restaurants, etc.
 - Modernizes cities – manufacture glass, concrete, steel, brick, ceramics and tile
 - Building blocks for manufacturing plastics, pharmaceuticals and fabrics
 - Keeps people warm
 - Complements renewables



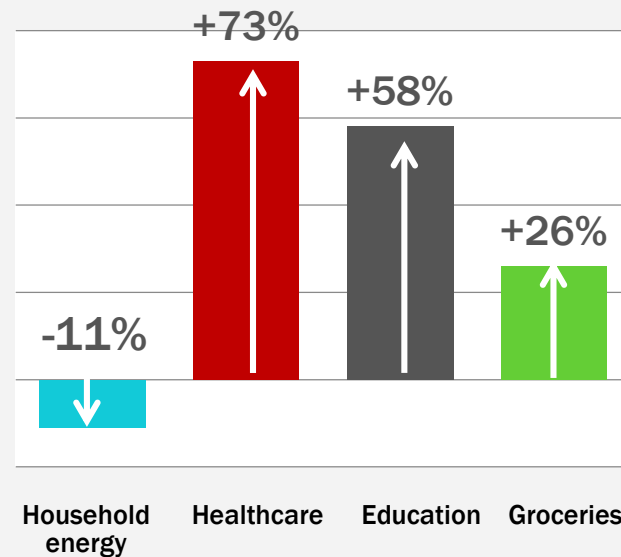
Economic & environmental benefits

Fuel switching in power generation

Since 2005, transitioning from coal to **natural gas-fired electricity** is responsible for ~66% of the cumulative decline in CO2 emissions

Lowering household energy costs

Last 10 years



Global benefits from gas exports

Rising as innovation and technology advancements bring abundant natural gas to countries around the world, from Mexico to India and Asia

An integral part of the clean energy future

- Natural gas and natural gas infrastructure are critical to achieving national and global environmental aspirations efficiently and cost effectively
- Without natural gas the enhanced deployment of renewable resources may not have been possible



Continuous improvement

Communications & collaboration

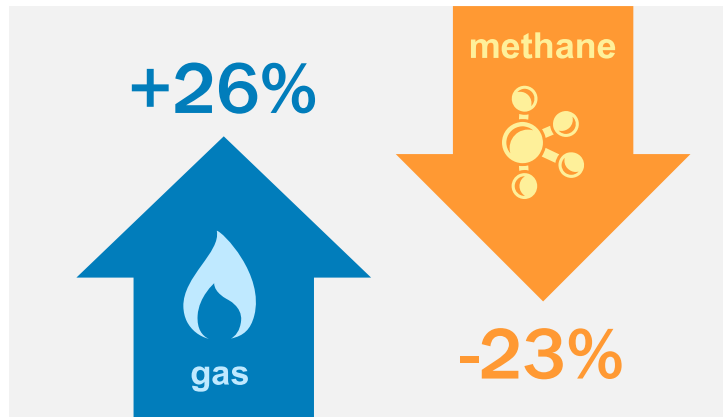
- Through INGAA and the INGAA Foundation we share lessons learned and solutions
- Our efforts here led to advances in safety, pipeline security and resiliency
- Over 50 years creating innovative solutions to maintain, modernize, construct and operate the nation's robust natural gas network
- Continue to make great strides in technological advancements through carbon capture and storage, high efficiency engines, and operational and digital tools to enhance safety and integrity of this critical energy infrastructure



The good news about emissions

Methane emissions continue to decrease...

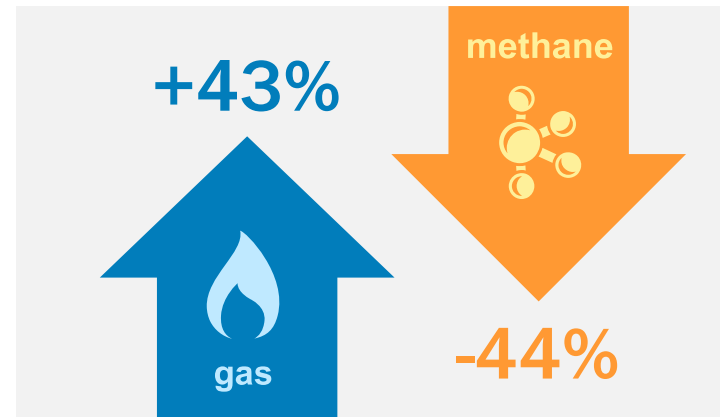
...from large compressor stations



From 2011-2017

- Natural gas production up 26%
- Methane emissions down 23%

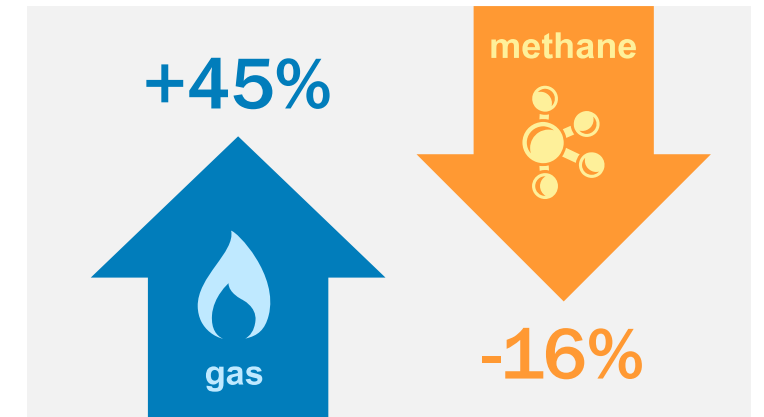
...from natural gas transmission & storage facilities



Since 1990

- Natural gas consumption up 43%
- Methane emissions down 44%

...from entire natural gas value chain



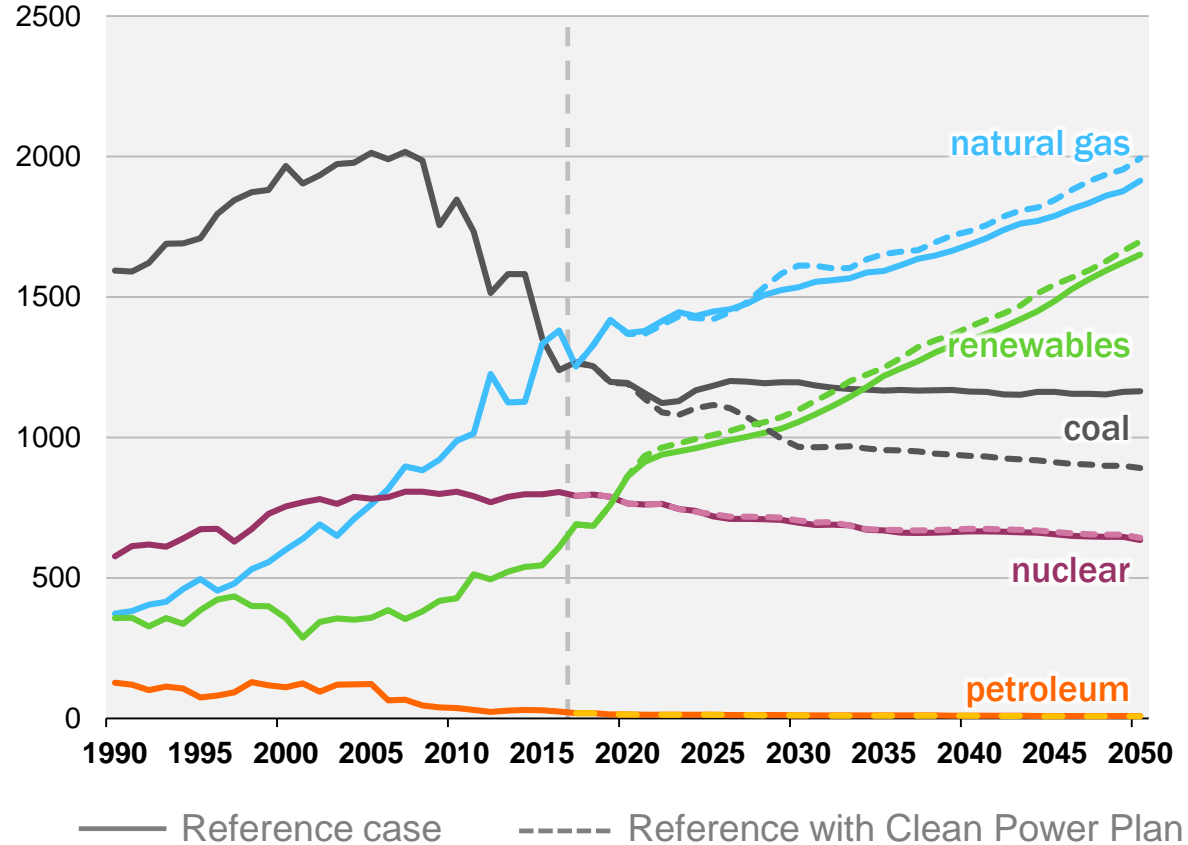
Since 1990

- Natural gas production up 45%
- Methane emissions down 16%

Think about it

Net Electricity Generation by Fuel

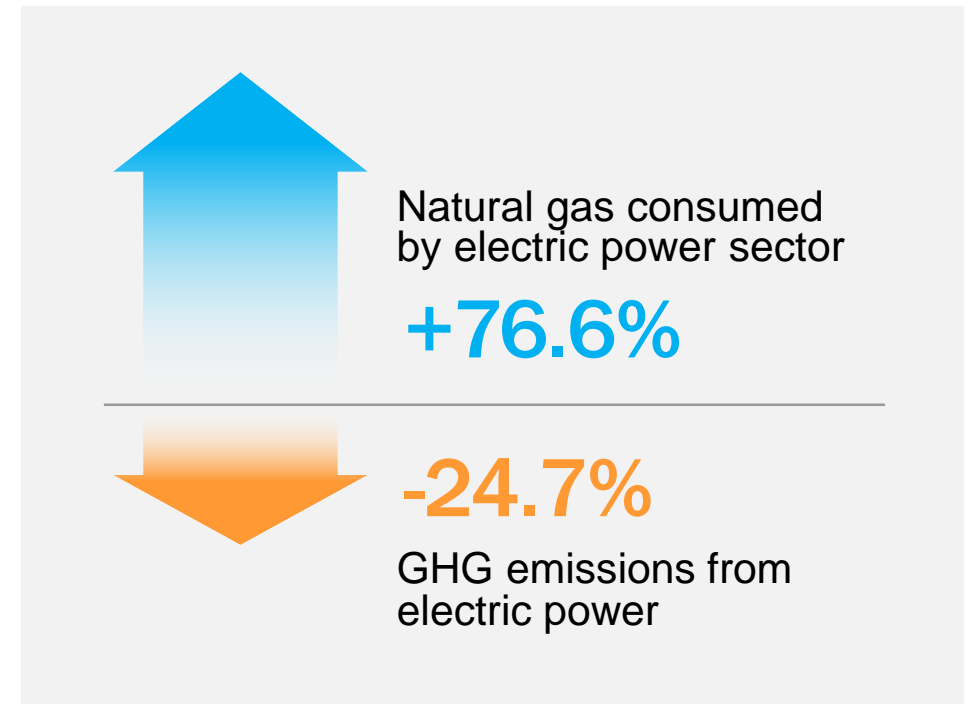
(billion KWh)



Source: Wood Mac, PIRA

Change in U.S. Emissions with Gas-fired Generation

(2005-2016, Bcf/d)



Source: EIA, Monthly Energy Report, March 2017

Collaborating more broadly



As we evolve, innovate and advance, we will work to help others take notice of our efforts

- INGAA joined with AGA, API and APGA
- Clarity of the requirements on PHMSA's gas transmission rule, to enhance pipeline safety and help advance our industry's efforts
- Collaborate with associations to achieve more consistent strategies that address methane emissions
- Align with entities like the U.S. Chamber of Commerce who represent the millions of small businesses across the U.S. as towns in California and Massachusetts implement legislation banning new natural gas hookups



U.S. Department of Transportation

**Pipeline and Hazardous Materials
Safety Administration**



INGAA 2020 priorities



To fulfill our role and obligation to society and meet the needs of the public, our shippers and manufacturers in a safe and responsible manner, we must maintain, modernize, construct and operate the nation's robust natural gas network

INGAA's priorities in 2020 include:

1. Approval of bi-partisan pipeline safety legislation
2. Defending the virtues of natural gas and its related energy infrastructure
3. Promoting natural gas as a reliable and resilient fuel source, a catalyst for environmental progress and as a complement to renewable sources of energy
4. Ensuring a stable and predictable regulatory, legislative and judicial climate with respect to permitting new energy infrastructure
5. Enhancing both our physical and cyber security

Maintain our momentum and gain new ground on issues

- **Pipeline safety solutions**

- Pipeline safety is the top priority of INGAA and our members
- Key focus on reauthorization of the Pipeline Safety Act
- Advocate for implementation of the PHMSA gas transmission rule and other rulemakings consistent with the philosophy of IMCI commitments

- **Physical and cyber security**

- Constant collaboration with DHS, TSA and related agencies is critical to maintaining a resilient natural gas delivery system
- Continue communicating the industry's efforts to ensure physical and cyber security of natural gas pipelines
- Advocate for smart approaches to federal oversight of natural gas pipeline physical and cyber security that enhance operator's ability to protect against and recover from incidents and intrusions

INGAA 2020 priorities

- **Protect the statutory and regulatory framework that facilitates vibrant, market-responsive interstate natural gas pipeline industry**
 - Advocate against amendments that would erode the long-standing principles of the Natural Gas Act
 - Seek clarity in the permitting process to ensure timely and predictable orders that recognize the competitive environment in which pipelines do business
 - Actively monitor and participate in, when necessary, judicial proceedings



Natural gas infrastructure is part of the solution

- To safely and reliably deliver clean energy in achieving national and global environmental aspirations and capture abundant domestic natural gas, **we need to be able to invest, upgrade and modernize infrastructure**
- We are essential not only to current daily life but to achieving the clean energy goals of the future efficiently and cost effectively and without putting reliability at risk

“ Even if we could capture the gas, it’s not clear we could get it to the marketplace.
We just need more pipeline capacity. ”

Energy Secretary Brouillette

We need to do a better job...

...communicating, educating, promoting & defending our work

- We get the gas to the customer so the plant keeps running, the home stays warm and the restaurant serves up the dish that nourishes a family
- The onus is on us to educate more, explain more and step out of our comfort zones to communicate the benefits and value we bring



If we don't fill in the blanks in a positive light,

others will do so in a negative light

Thank you

We couldn't do all of this without collaboration & communications with our peers

Thank you for what you do and making a difference in the quality of lives of billions of people around the world



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