



# **ONE Future Methane & Climate Strategies Workshop**

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**Steve Kean**  
**Chief Executive Officer**  
**Kinder Morgan, Inc.**

# Natural Gas Critical to Climate Goals

- **Natural gas is the cleanest burning fossil fuel with significantly lower emissions than coal or fuel oil**
- **Switching from coal to natural gas has driven a reduction in the nation’s power sector CO<sub>2</sub> emissions**
  - 2017 U.S. power sector CO<sub>2</sub> emissions were the lowest since 1988 despite a 48% increase in overall power generation in the same amount of time.
  - 2017 U.S. power sector CO<sub>2</sub> emissions were ~28% lower than 2007 emissions.
- **U.S. methane emissions decreased over 15% from 1990 to 2016<sup>(a)</sup> despite a 49% increase in natural gas production over the same period.<sup>(b)</sup>**

Monthly Energy Review <sup>(a)</sup>	1988	2007	2017	% Change (2007 to 2017) / (1988 to 2017)
U.S. Population	~245 million	~301 million	~325.7 million	+8% / +33%
Real GDP	~\$8.5 trillion	~\$14.9 trillion	~\$17 trillion	+14% / +100%
Power sector CO <sub>2</sub> emissions <sup>(c)</sup>	1.75 GT	2.42 GT	1.74 GT	-28% / -0.5%
Power generation (GWh) <sup>(c)</sup>	2,707,411	4,156,745	4,014,804	-3% / +48%
Coal	57%	49%	30%	-38% / -47%
Natural Gas	9%	22%	32%	+45% / +255%
Nuclear	19%	19%	20%	
Solar/Wind	<1%	<1%	7%	

a) EPA, “U.S. Greenhouse Gas Inventory Report, April 2018

b) EIA, “U.S. Dry Natural Gas Production,” April 2018

c) EIA, “Monthly Energy Review,” April 2018

# Committed to Reducing Emissions

- Charter member of the ONE Future Coalition
- Charter member of EPA's Natural Gas Star and Methane Challenge programs
- Voluntary initiatives achieved 94 Bcf of methane emissions reductions over the last 25 years
- Committed to continue managing and minimizing methane emission; *it is our business*



# Best Methane Reduction Options

## ■ Pipeline Blowdowns

- Eliminating blowdowns through regulatory changes is the best option
- Evaluating options to minimize emissions when blowdowns are required

## ■ Compressor Station Leak Surveys and Repairs

## ■ Minimize station equipment malfunctions causing unit and station blowdowns



# Anne Idsal, EPA Region 6 Administrator

- Responsibilities: Regional Administrator for EPA Region 6, overseeing the states of Arkansas, Louisiana, Oklahoma, New Mexico, Texas and 66 Tribal Nations.
- Previously served as the first female Chief Clerk of the Texas General Land Office as well as the General Counsel to the Texas General Land Office, and as General Counsel to the Texas Commission on Environmental Quality.
- Bachelors of Arts in Politics from Washington and Lee University, and a law degree from Baylor University.

