



Natural Gas Transmission & Storage

ESG and Methane Initiatives

September 25, 2018
Fort Collins, CO



What is INGAA?



- 28 Operators of Interstate Natural Gas T&S Facilities
 - Alliance Pipeline, Boardwalk Pipeline, Cheniere Energy, Con Edison, Dominion Energy, DTE Midstream, Eastern Shore Natural Gas, Enable Midstream, Enbridge, EQT, Iroquois, Kinder Morgan, Millennium Pipeline, National Fuel Gas, National Grid, NextEra Energy, ONEOK, PG&E, Piedmont Gas, Sempra LNG & Midstream, Southern Company, Southern Star Central Gas, Tallgrass Energy, TransCanada, Tellurian, UGI Energy Services, WBI Energy, Williams Companies
- ~200,000 miles of high pressure interstate pipeline
- Transport 95% of natural gas consumed in U.S.
- Mission is to deliver natural gas safely, reliably, cost effectively in a manner that protects the environmental and complies with regulatory requirements

Environmental, Social Governance Metrics



Methane Emissions Commitment



Implementation of Voluntary Methane Emissions Commitments



- While maintaining safe and efficient operations, INGAA members commit to:
 - Minimize Blowdowns emissions
 - Use air-driven, low or intermittent bleed pneumatics as appropriate
 - Minimize emissions from engine rod packing
 - Conduct leak surveys at compressor stations by 2022
 - Conduct leak surveys at storage wells by 2025
 - Transparently report emissions and reductions
 - Continue driving R&D to help further manage and minimize methane emissions

What is Next?

- 1. Technology, technology, technology**
- 2. Lessons learned**
- 3. Best practices**
- 4. Innovations**