

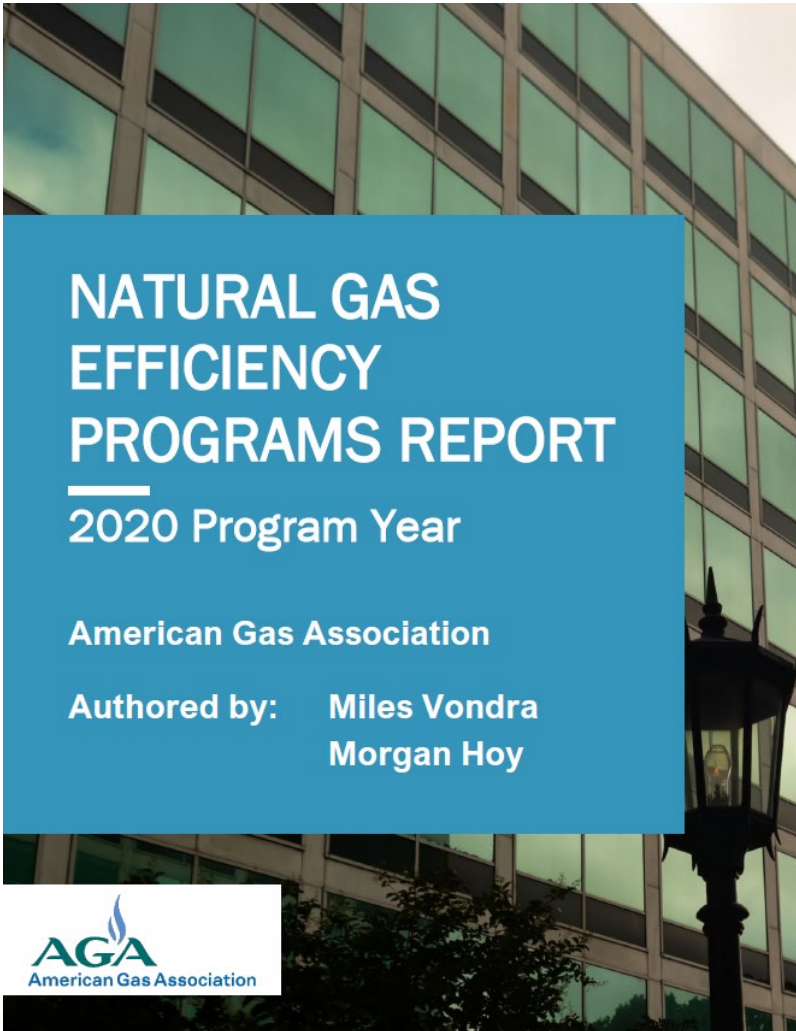
Decarbonizing America's Energy System: Pathways to Get Us There

A presentation for NASEO

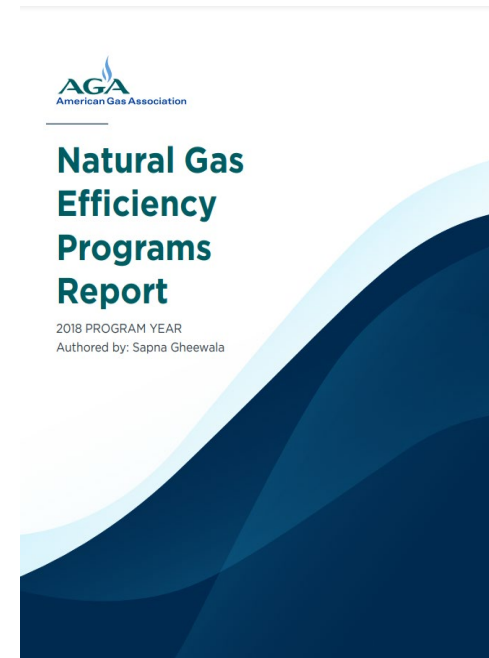
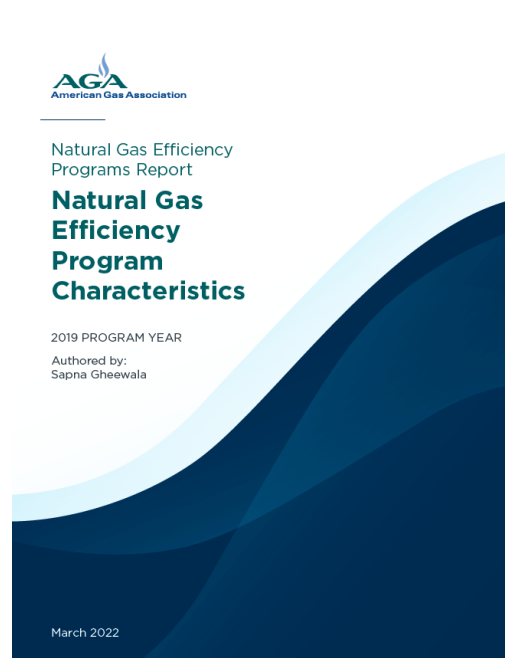


Morgan Hoy
October 2023

325 million therms of Energy Saved in 2020



- \$4.3 million per day on Efficiency Programs
- Year-over-year energy savings
- Effective practices deployed **today**

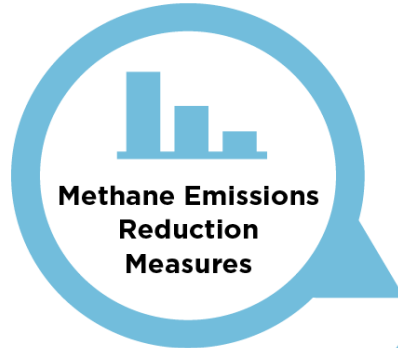


Source: AGA Natural Gas Energy Efficiency Report – 2020 Program Year



Multiple Paths to Decarbonize

- Differentiated Gas
- Leak Detection and Repair Programs
- More Accurate Emissions Measurement
- Replacement of Higher Emitting Pipe and Equipment
- Operational and Maintenance Measures



Gas Utility Approaches for Reducing Emissions

Gas Demand Reductions

- Expansion of Gas Energy Efficiency Programs
- Building Envelope Improvements
- Emerging Highly Efficient Gas Technologies

- Carbon Capture and Sequestration
- Direct Air Capture
- Greenhouse Gas Emissions Offsets



Decarbonize Gas Supply

- Renewable Natural Gas
- Hydrogen
- Methanated Hydrogen
- Dedicated Hydrogen Infrastructure

Source: AGA Net-Zero Emissions Opportunities for Gas Utilities

Future Questions?

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