

Direct Use of Natural Gas is a Cost-Effective Path to Lower Emissions

The American Gas Foundation's study on emerging natural gas direct-use technologies demonstrates that high-efficiency natural gas appliances can play an important role in reducing emissions across homes and businesses.



Efficiency improvements in natural gas technologies are one of the lowest-cost ways to reduce emissions while maintaining customer affordability.

- Adoption of high-efficiency natural gas technologies can reduce emissions by more than 20%.¹
- Using natural gas during high-demand periods offers families and businesses increased reliability and reduces reliance on the electric system.

77% of adults view natural gas as a reliable way to heat their home, cook meals and help families complete household chores.



Increased natural gas efficiency can help protect affordability.

- Natural gas appliances are more affordable than electric alternatives.
- Electric space and water heating options are more expensive, especially in colder climates.
- Families choose natural gas heat pumps over electric heat pumps at a ratio of 4 to 1.²

Families save \$1,030 per year on average by using natural gas appliances for cooking, space and water heating, and clothes drying.



There is no “one-size-fits-all” approach to reducing emissions.

- Regional differences in climate, energy prices, infrastructure, housing availability and installation complexity all affect which technologies are practical and cost-effective.
- Even when local or regional policies incentivize electrification, customers often continue to choose natural gas.

Natural gas efficiency and the growth of renewable energy have led to energy-related **carbon dioxide emissions hitting 40-year lows.**

Natural gas is economically positioned to remain part of the long-term solution for emissions reduction and energy system reliability.

¹ Roland Berger, “Opportunities for Reducing Greenhouse Gas Emissions Through Emerging Natural Gas Direct-Use Technologies,” Prepared for the American Gas Foundation, 2026
² “Building for Efficiency: Home Appliance Cost and Emissions Comparison,” American Gas Association, 2025