

Utilization Technology Development NFP (UTD) is a not-for-profit, utility-directed scientific research organization established in 2004. Utilities participating in UTD serve more than 35 million gas customers in North America.

## COLLABORATIVE END USE GAS RESEARCH BENEFITS UTILITIES AND THEIR CUSTOMERS



### HOW WE DO IT

- Develop, demonstrate, and validate advanced equipment solutions through technical innovations, better designs, lab testing, and field demonstrations
- Partner with energy users, government agencies and laboratories, universities, entrepreneurs, industry, and utilities
- Apply rigorous scientific analysis and testing to optimize efficiency and environmental performance
- Provide technical support for engineering evaluation and optimized use of advanced products
- Integrate RE sources with gas to provide superior overall benefits

### MISSION

Identify, select, fund, and oversee research projects resulting in innovative customer solutions which maximize the environmental performance, affordability, efficiency and safety of equipment and processes that use natural gas and renewable energy resources.

### GOALS



#### SAVE CONSUMERS MONEY

Advanced high efficiency gas technologies directly reduce energy bills. Greater competing product choices drive down purchase and installation costs.



#### SAVE ENERGY AND REDUCE GHG EMISSIONS

Higher-efficiency end-use equipment innovations reduce consumers' energy consumption and GHG emissions, and help utilities achieve their energy efficiency program goals.



#### ENSURE SAFE, RELIABLE, AND RESILIENT OPERATION OF END USER'S EQUIPMENT AND ENERGY DELIVERY SYSTEMS

Equipment and systems that leverage the high reliability of underground gas distribution bolster the safe, reliable, resilient operation of buildings, facilities, microgrids, and other critical infrastructure.



#### ACHIEVE SUPERIOR ENVIRONMENTAL PERFORMANCE

Cutting-edge combustion, heat pump, heat-recovery, and transportation technologies provide ultra-high energy efficiency while meeting rigorous environmental standards and minimizing emissions.



#### INTEGRATE WITH RENEWABLE ENERGY SOURCES

Integrating on-site-generated renewable energy (RE) with gas-fired equipment that uses more renewable natural gas (RNG) or hydrogen made from RE provides lower-carbon solutions.