GTI Overview

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End Use Solutions
GTI Overview

> Not-for-profit research, with 65+ year history

> Facilities
  - 18 acre campus near Chicago
  - 200,000 ft², 28 specialized labs
  - Other sites in Oklahoma and Alabama

> Staff of 250

> Experiencing substantial growth
Addressing Key Energy Industry Issues Across the Value Chain

**SUPPLY**
- Expanding the supply of affordable energy

**DELIVERY**
- Ensuring a safe and reliable energy delivery infrastructure

**END USE**
- Promoting the efficient use of energy resources

Reducing carbon emissions to the environment
GTI End Use Solutions

What We Do...

Develop clean, efficient technologies and products for energy consumers & industry

Working collaboratively with industry & government partners

**Industrial Processes**
- Metals, glass, petrochemicals, paper, food, others

**Power & Steam Generation/CHP Systems**
- Industrial boilers
- Engines, turbines, fuel cells

**Residential/Commercial**
- Building systems, equipment, and appliances

**Transportation/Alt Fuels**
- Alternative fuel vehicles/infrastructure
- Bio-methane systems
Residential and Commercial Market Overview

> Stable total natural gas demand (with declining gas use per home)
> Growing use of decoupled natural gas rate structures
> Expanding gas energy efficiency programs

US Gas Efficiency Programs
Source: CEE/AGA
Residential/Commercial

> GTI has a robust residential and commercial program focused on
  
  - New appliance technology for hot water, steam, and space conditioning
  - Commercial food service technology
  - Distributed generation/CHP
  - Building/community systems integration
  - Smart grid applications
  - Solar thermal/natural gas hybrid systems
  - Carbon management solutions

> Extensive laboratory facilities
Thank you for taking time from your busy schedules!