**What is CMIC?**

Gas Technology Institute (GTI’s) Carbon Management Information Center (CMIC) is contributing to the progress of U.S. green building practices and rating systems by providing clear, concise, credible, and unbiased technical data regarding the benefits of source energy, or “full-fuel-cycle,” in reducing energy consumption and carbon emissions.

Through direct involvement in technical committees and public review processes on full-fuel-cycle impacts, our experts are playing an instrumental role in bringing greater attention to the many ways that direct use of natural gas and propane systems can **improve source energy efficiency, reduce greenhouse gas (GHG) emissions, and lower energy costs for consumers**. We provide technical data to gas industry and external stakeholder groups involved in the consideration and approval of codes, standards, regulations, and certifications.

**Legacy of expertise**

CMIC is a GTI collaborative program that is funded by natural gas industry members as well as the Propane Education and Research Council (PERC).

With GTI’s unsurpassed legacy of research, innovation and performance, CMIC leverages its staff expertise, relevant projects, and strong relationships with key energy industry members and external stakeholders such as national laboratories, federal agencies, standards organizations, and private sector organizations to achieve objectives.

**Resources to build public and policymaker awareness**

- CMIC clearly and fairly evaluates opportunities for efficient natural gas and propane systems
- We provide key information into how the direct use of natural gas can achieve source energy and lifecycle cost savings over comparable electric or oil systems
- The center encourages development of efficient gas and hybrid products that greatly reduce GHG emissions
- CMIC identifies cost-effective opportunities through carbon emission reduction and energy efficiency programs

**Become a member and make an impact with efficient energy use**

- Cutback lifecycle costs to your consumers
- Increase source energy efficiency
- Reduce carbon emissions
- Boost energy security
- Create more jobs
- Diversify energy options with renewable technology
Impacting Codes and Standards

Since the inception of CMIC, the group has participated in targeted technical committees, made presentations at key stakeholder meetings, and worked directly with other gas industry carbon management efforts, engaging different strategies depending on which stakeholders are involved. Persistent interaction in targeted initiatives helps provide equitable treatment of natural gas and propane direct use—as well as current and emerging strategic technologies such as combined heat and power (CHP) and gas heat pumps—based on their technical merits. Coordinated gas industry and aligned stakeholder involvement—including trade associations, utilities, codes and standards committees, government agencies, and regulatory and legislative bodies—increases the chances for success.

The technical information developed and published under CMIC is starting to have a substantive impact. States and cities across the Unites States are enacting legislation that requires benchmarking, rating, and reporting the source energy performance of existing commercial buildings.

One of the major outcomes from GTI/CMIC efforts has been the inclusion of source energy-based compliance requirements in the 2012 International Green Construction Code (IGCC) that applies to the construction of new high-performance commercial buildings, structures, and systems, as well as alterations and additions. Source energy has also been incorporated into a suite of ASHRAE Standard 105 building codes. These new codes and standards help to equitably position natural gas in new construction projects.

The Source Energy and Emissions Analysis Tool (SEEAT) developed by CMIC is being used to calculate source energy consumption and greenhouse gas emissions (among others) associated with annual site energy consumption by purchased fuel type of baseline and alternative applications. The tool, which incorporates user-selectable and default inputs, also provides information on typical annual site energy use in a given location for commercial and residential buildings and equipment, industrial applications, and passenger vehicles.

Become a CMIC Member

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