The Gas Technology Institute (GTI) Emerging Technology Program (ETP) is a North American, membership-based utility collaborative. It is designed to help members identify and evaluate the most promising products and integrated solutions. It leverages collective funding and expertise to address market barriers, assesses product suitability for utility energy efficiency programs, and delivers comprehensive program guidelines for successful deployment.

**OUR PROCESS**
ETP works across numerous channels to deliver a pipeline of solutions, enabling utilities to meet energy efficiency goals with less risk and more certainty. “Beyond development” technologies are targeted for residential, commercial and industrial markets, meaning they are newly commercialized or underutilized in a market or region. Members determine which technologies are reviewed based on their needs.

**Screening Process**
Technologies are vetted by a general screening criteria. Criteria include: cost-effectiveness, energy savings potential, impact on utility operations, manufacturer commitment, and fit with energy efficiency programs.

**Pilot Assessment Projects, Demonstrations, and Deployment**
Project proposals are developed for technologies that pass screening. ETP projects are funded by members on an opt-in basis, and are typically deployed or demonstrated at customer sites. Projects and demonstrations help validate performance, characterize market potential and implementation strategies, and creates datasets to support prescriptive measure and marketing programs. In 2016, GTI’s ETP conducted over 20 active demonstration, pilot, and lab projects across a dozen technologies.
GTI began implementing the Nicor Gas ETP in 2011. This program has introduced new technologies and helped customers across Illinois save energy and money.

The program has:
- Received over 75 technology applications from manufacturers, sales representatives, and contractors
- Launched 20+ pilot projects in residential, commercial, and industrial markets
- Identified, evaluated and facilitated five emerging technologies as new rebates through energySMART, a Nicor Gas program

Under the Nicor Gas ETP, GTI field tested a modulating gas valve retrofit kit for commercial dryers.
- The data collection and analysis performed under the project demonstrated average savings greater than 330 therms annually, offering a 2-3-year payback before incentives
- The gas valve retrofit kit measure was added to the Illinois Technical Reference Manual (TRM)
- The Nicor Gas energySMART program currently offers a prescriptive rebate for the retrofit kit

You can learn more about the Nicor Gas ETP at www.nicorgasrebates.com/resources/emerging-technology.

For more information, contact Ryan Kerr, GTI Emerging Technologies Manager, at ryan.kerr@gastechnology.org.
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The Emerging Technology Program is managed to best serve member needs, and balances program efficiency, effectiveness, scale and customer choice. The membership options below list activities and benefits. Premium options are customizable, and offer the opportunity to fund assessment projects, demonstrations, or establish an ETP program.

<table>
<thead>
<tr>
<th>Membership Options</th>
<th>Base Membership</th>
<th>Premium: Collaborative Projects/Demos</th>
<th>Premium: In-Territory Projects/Demos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membership Cost</td>
<td>$25,000</td>
<td>$25,000 + varied project cost</td>
<td>$25,000 + varied project cost</td>
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<tr>
<td>Project/Demo Cost</td>
<td>N/A</td>
<td>Opt-In, Varies</td>
<td>Opt-In, Varies</td>
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</tbody>
</table>
| Activities         | Technology screening and selection  
                      Biannual meetings  
                      Steering Committees  
                      Member collaboration  
                      Commercial partner engagement | Base membership activities plus  
                      Demonstrations and scaled field placements  
                      Comprehensive data collection and analysis  
                      Performance, market and cost data | Base membership activities plus Premium membership activities in-territory |
| Deliverables       | Technology recommendations for projects  
                      Summary reports, white papers, case studies | Base membership deliverables plus  
                      Full-scale program design and implementation guide  
                      Consumer awareness outreach  
                      Market standards development | Base membership deliverables plus Premium membership deliverables in-territory |
| Benefits           | Member website access  
                      Snapshot database  
                      Project reports | Base membership benefits plus exclusive access to full technology, project, and energy savings data | Base membership benefits plus Premium membership benefits |
MEMBER ENGAGEMENT

Biannual Meetings

Two in-person membership meetings are held per year: one in spring, and one in fall. Meetings are coordinated with related industry events when possible. At these meetings, we discuss high potential focus technologies, active projects, Steering Committee activities, member needs, and next steps. This is a prime opportunity to network with fellow members, meet commercial partners, and connect with GTI’s subject matter experts.

Steering Committees

ETP hosts seven focused Steering Committees for member participation, including Residential HVAC, Micro-Combined Heat & Power, Commercial Market, Commercial Foodservice, Industrial Market, Water Heating, and Program. Steering Committees enable members to explore new technologies, collaborate with others, and lead in identifying products for assessment. Committees meet up to four times annually. Time required is minimal, but participation provides the opportunity to drive the ETP agenda, stay current with technologies, and combine interests and expertise.

Establish Your Own ETP

A utility-led emerging technology program allows for technical and market understanding on installation, performance, and serviceability in customer energy efficiency solutions. Financial support for these programs vary by state and company. Some utilities opt to use a portion of their energy efficiency funds for piloting technologies, equipment, and devices. GTI can help you develop regulatory submissions, plans and implementation programs to meet your long-term energy efficiency goals.

Pilot Projects and Demonstrations

Utilities with a base membership will be able to recommend high potential technologies for project consideration. The base membership allows members to be part of the initial scanning, screening, and selection processes. Pilots and demonstrations are funded by those with a premium membership on an opt-in basis. Once a technology has been selected, a project plan is developed. Multiple members can support a project, and costs vary depending on scope.

RESOURCES

- Membership Website: Members have full access to the ETP website offering program resources, including confidential project updates, data, and directory
- Technology Snapshots: Snapshots introduce members to the most important new technologies, highlighting attributes, market barriers and readiness, and next steps. ETP creates or updates around 20 Snapshots per year
- Project Materials: Project summary reports, case studies, program design white/work papers, and other resources are available for reference

GET INVOLVED

If you are a gas/combo utility or a commercial industry partner and would like to get involved in ETP, please contact Ryan Kerr, GTI Emerging Technologies Manager, at ryan.kerr@gastechnology.org.

Rev.11/22/17