

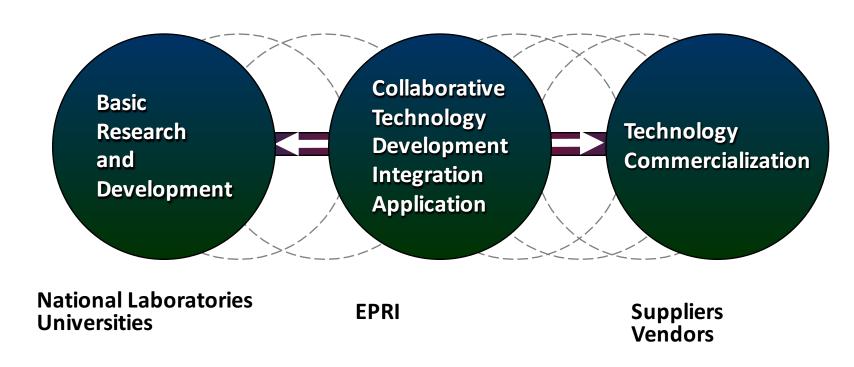
EPRI

Market Opportunities Session



EPRI's Role

Help Move Technologies to the Commercialization Stage...



"Technology Accelerator!"



EPRI's Interest

EPRI interest comes from utility & customer needs

Potential for Energy Efficiency savings

Commercial refrigeration is underserved in EE programs

Legislation pushing new technology

Changes coming – starting in refrigeration, moving elsewhere Need options that save energy, reduce demand

Helping customers understand their options
Utilities are a go-to source for customer solutions

Environmental concerns

Atmospheric impact in some applications doubled by refrigerant leaks

ATMO sphere business case natural refrigerants 25 & 26 June - Atlanta, Georgia

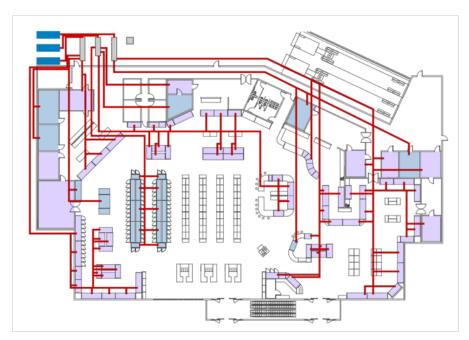
EPRI's Efforts

- Focus where the changes are happening first:
 Commercial Refrigeration
 - Commercial refrigeration systems are among the largest users (and leakers) of refrigerants

Typical supermarket or refrigerated warehouse has thousands of pounds

of refrigerant charge

- ~6% of all commercial building energy is used for refrigeration
 - Supermarkets: 47% of all energy is refrigeration



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Laboratory testing: CO₂ "Booster" system

- Can CO₂ systems be designed to have equivalent efficiency in hot conditions?
- Field testing: NH₃/CO₂ system in a food processing facility
 - Real world operating conditions: replacing part of R507A refrigeration system
 - Existing system left in-place for baseline
 - Ammonia efficiency, CO₂ in occupied spaces for safety

EPRI's Efforts

Ongoing Research Projects







25 & 26 June - Atlanta, Georgia

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