



The Energy Providers Session

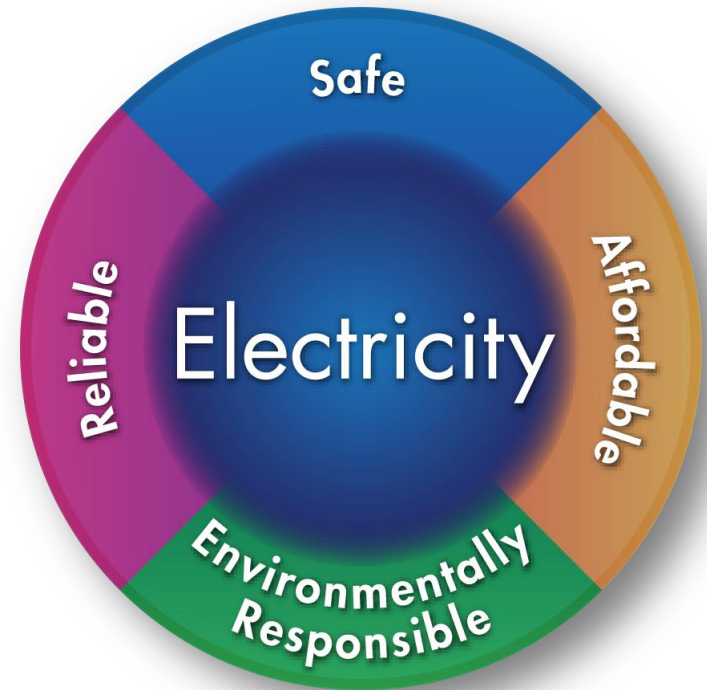
Overview

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ATMOsphere America
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Together...Shaping the Future of Electricity

EPRI's Mission

Advancing **safe, reliable, affordable** and **environmentally responsible** electricity for society through global collaboration, thought leadership and science & technology innovation



Three Key Aspects of EPRI

Independent

Objective, scientifically based results address reliability, efficiency, affordability, health, safety and the environment

Nonprofit

Chartered to serve the public benefit

Collaborative

Bring together scientists, engineers, academic researchers, industry experts



Our Members...

- 450+ participants in more than 30 countries
- EPRI members generate approximately 90% of the electricity in the United States
- International funding of nearly 25% of EPRI's research, development and demonstrations



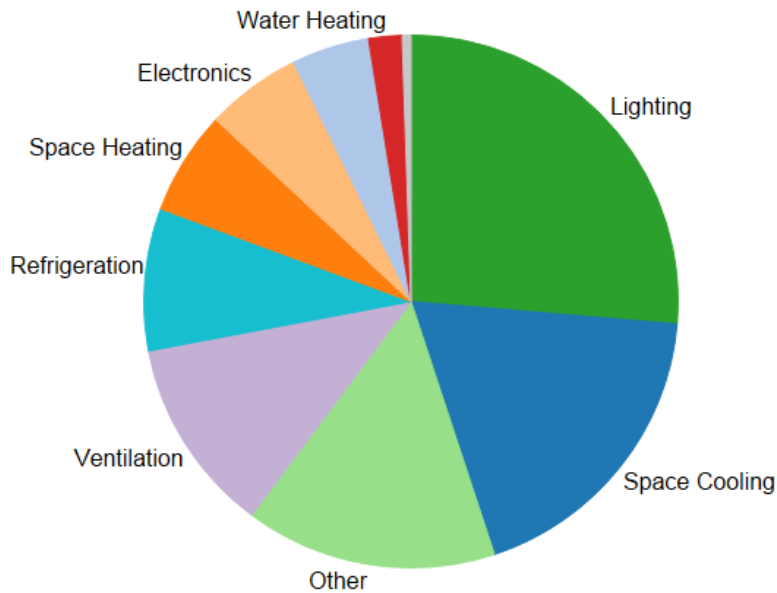
Energy Efficiency

Ensure that residential, commercial and industrial consumers use electricity as efficiently as possible

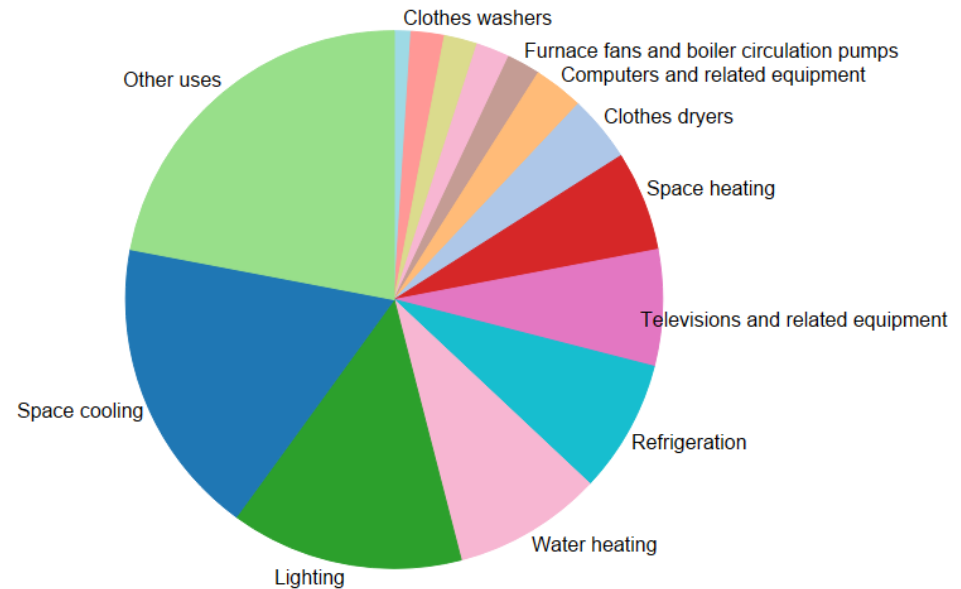


Energy Use – Commercial and Residential Sectors

Commercial



Residential



<http://buildingsdatabook.eren.doe.gov/TableView.aspx?table=3.1.4>

<http://www.eia.gov/tools/faqs/faq.cfm?id=96&t=3>

Energy Use in HVAC&R is Important

Natural Refrigerants: Why Should the Utilities Care?

- Natural refrigerants aren't always more efficient, so why should utilities care?

1. HVAC&R is an important segment

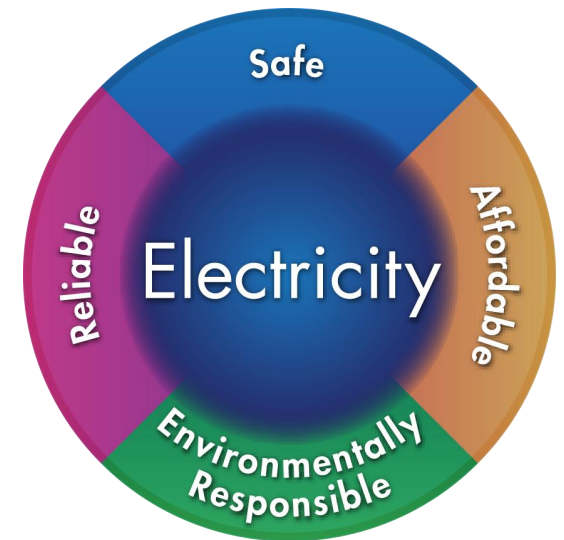
- Utilities have key EE programs in this sector

2. Environmental Impact

- Utilities have a vested interest in preserving the health of the atmosphere

3. Emerging Technology

- Changes (including regulatory) will push natural refrigerants into a bigger role
 - Can new technologies provide efficient, level loads?



Environmental Impact

The EPA Clean Power Plan

- Released June 2, 2014, under Section 111(d) of the Clean Air Act
- Carbon emissions from power plants reduced by 30% by 2030 (baseline is 2005)
- Process to be managed by states
- EPA is proposing a flexible approach
 - Consistent national framework – especially through programs that encourage renewable energy or energy efficiency
 - Maximizing flexibilities – states have the flexibility to choose the best set of cost-effective reductions for them

Panelists from Utilities

- Panelists will focus on:
 - Utility Energy Efficiency Programs
 - Programs related to HVAC&R
 - Business Case for Promoting Natural Refrigerants

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