Home Energy Conservation Tips

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Residential Energy Consumption

- According to the Energy Information Administration (EIA)
- In 2017 Residential Consumers accounted for:
  - 1,378,819 million Kilowatt–hours
  - 36% of the national total
  - 4,423 billion cubic feet of natural gas
  - 16% of the national total
How are we using electricity?

Residential electricity consumption by end use, 2015

percent of total

- air conditioning 17%
- space heating 15%
- water heating 14%
- refrigerators 7%
- previously published end uses

- lighting 10%
- TVs and related 7%
- clothes dryers 5%
- not elsewhere classified 13%
- new end uses

- ceiling fans
- air handlers (heating)
- separate freezers
- cooking
- dehumidifiers
- microwaves
- pool pumps
- air handlers (cooling)
- humidifiers
- dishwashers
- clothes washers
- hot tub heaters
- evaporative coolers
- hot tub pumps

eia
Figure 14. Most households have a mix of lightbulbs installed
percentage of homes

- incandescent: 11% (18% all bulbs), 71% (some bulbs), 1% (no bulbs)
- CFL: 10% (19% all bulbs), 71% (some bulbs), 1% (no bulbs)
- LED: 1% (28% all bulbs), 71% (some bulbs), 1% (no bulbs)
Appliances and Air Conditioners

**Appliances**
- Washers & Dryers
- Refrigerators
- Dishwashers

**Electronics**
- Televisions / Set Top Boxes
- Computers / Monitors

**Heating & Cooling Equipment**
- Furnaces
- Central A/C
- Window A/C
- Smart Thermostats
- Water Heaters
Natural Gas

• Insulation
  • Temperature Zone 5
  • Attic: Uninsulated – R49-R60  Existing 3-4” - R38-R49
    R60 = 8-16”  R-38=6 1/4” batt  12” loose
  • Floors R25-R30
  • Walls – Add R5 insulative sheathing before installing new siding.

• Weather Sealing
  • Caulk all gaps and openings around windows and doors
  • Install seals on all exterior doors
Natural Gas

• Low Flow Water Devices
  • Showerheads, Areators

• Programmable Thermostat
  • Nest, Ecobee, Honeywell

• Windows
Renewable Energy

- OH SUN (Ohio Solar United Neighborhoods)
  - https://www.solarunitedneighbors.org/ohio/
  - Cuyahoga County Solar Co-op