

# Vermont H.410 Appliance Resource Efficiency Standards

Chris Granda  
Appliance Standards Awareness Project  
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[www.appliance-standards.org](http://www.appliance-standards.org)

# APPLIANCE STANDARDS

## THE BEST ENERGY AND CLIMATE POLICY YOU'VE NEVER HEARD OF.

**2<sup>ND</sup>** BIGGEST ENERGY-SAVING INITIATIVE IN THE U.S.

7.3 CAFE vehicle fuel economy standards

5.3 Appliance and equipment standards

3.8 Energy Star

1.8 Utility sector energy efficiency programs

1.1 Building codes

1.0 Federal R&D

0.5 Energy Service Companies

0.3 Federal tax incentives

\* Quadrillion BTUs

CONSUMERS POCKET **\$500 A YEAR** IN SAVINGS ON UTILITY BILLS



THAT WILL ADD UP TO A TOTAL OF \$1.9 TRILLION BY 2035.

APPLIANCE STANDARDS WILL PROVIDE **11%** OF WHAT U.S. NEEDS TO MEET 2025 PARIS CLIMATE TREATY TARGET.



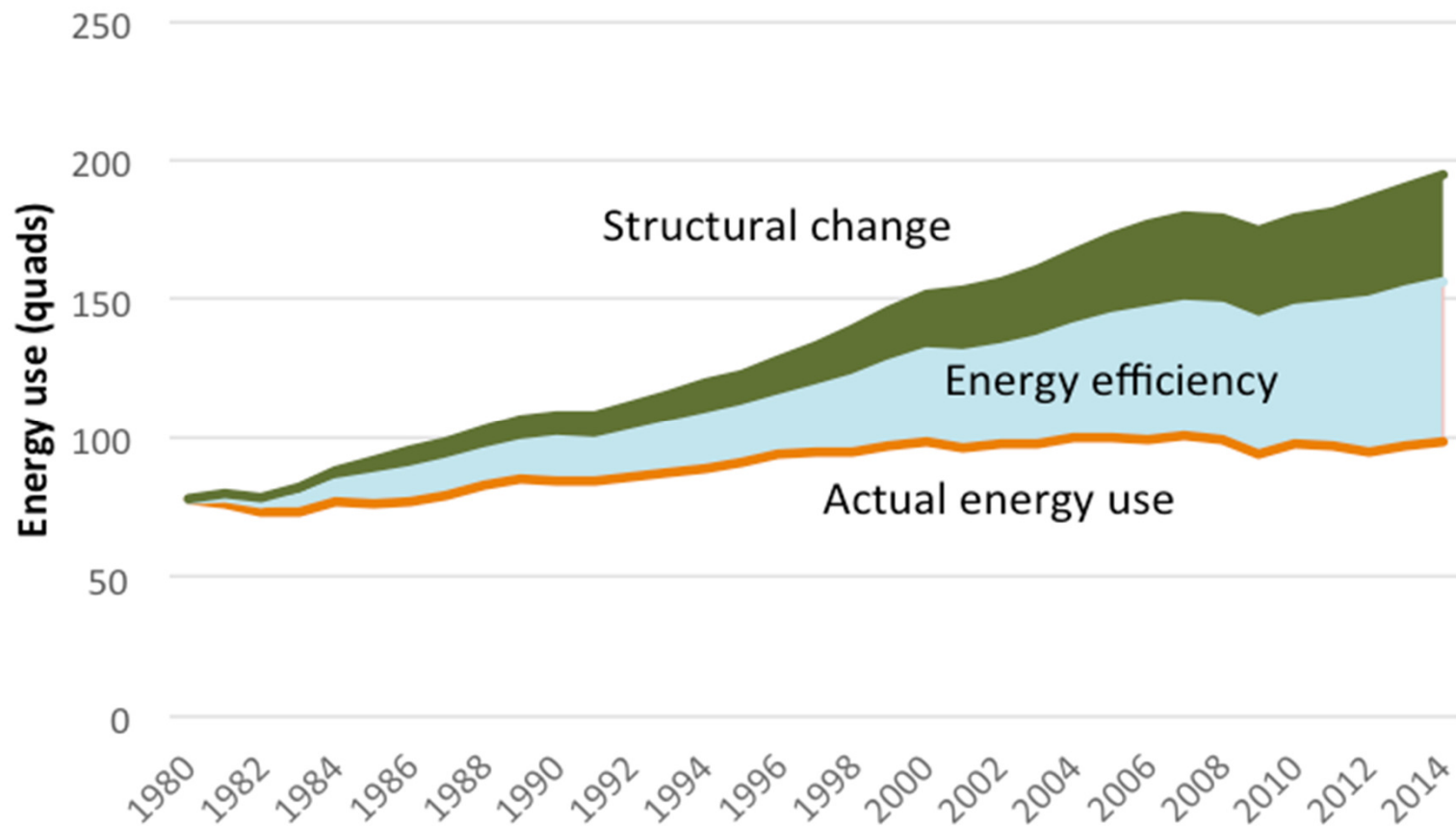
IN 2015 ALONE, APPLIANCE STANDARDS HELPED US AVOID CARBON EMISSIONS EQUAL TO

**63** MILLION AUTOMOBILES



**ASAP** APPLIANCE STANDARDS AWARENESS PROJECT  
LEARN MORE AT [APPLIANCE-STANDARDS.ORG](http://APPLIANCE-STANDARDS.ORG)

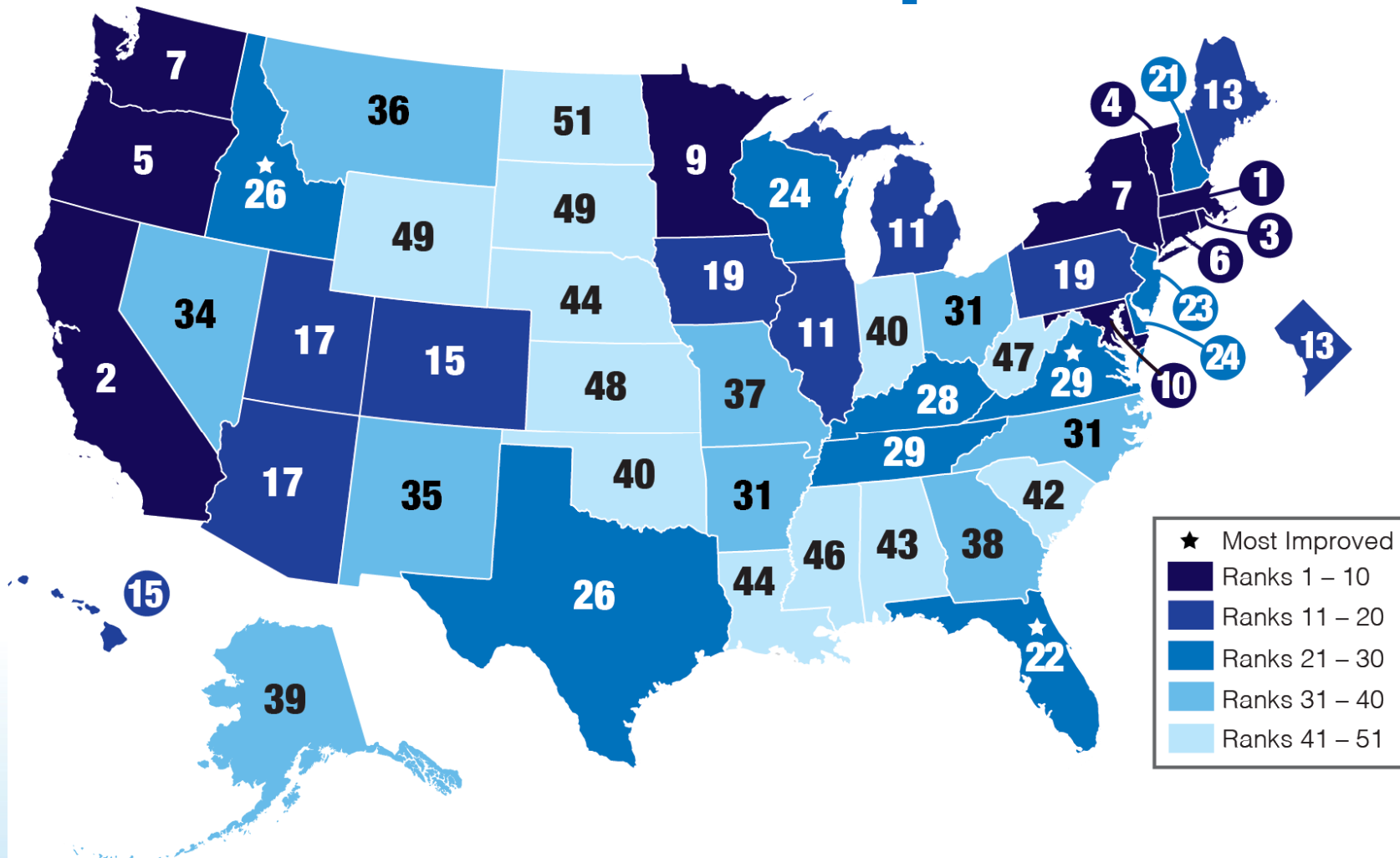
# U.S. Energy Use Since 1980



# Why Efficiency Standards?

- Fix Market Failures
  - Eliminate hidden second price tag
  - Make efficiency a function, not a feature
  - Accelerate innovation

# Vermont's Energy Efficiency Leadership



# Vermont Energy Efficiency Standards

- Vermont has had standards since 2006
  - Title 9: Chapter 74 covered transformers, boilers, power supplies, and some lighting
  - All subsequently pre-empted by federal standards in 2007
- H.411 protects existing federal standards
- H.410 builds on this success

## H.410 Objectives

- Build on the success of H.411 (Act 42)
- Continue success of federal efficiency standards
- Save energy and money for Vermonters



# Products in H.410

## Blocked Federal Standards

- Large air compressors
- Uninterruptible power supplies
- Portable air conditioners





# Products in H.410

## Federal Standard Loophole

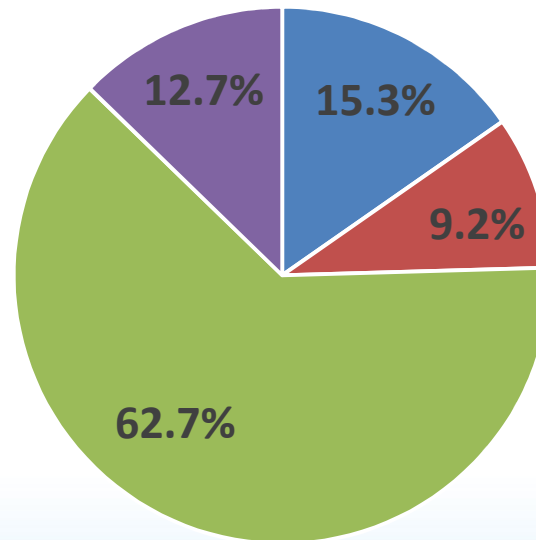
- High color rendering index (CRI) linear fluorescent lamps



# US Market for Linear Fluorescent Lamp Products 2017

Market Share  
(504 million shipped)

64 million inefficient  
loophole T12 lamps



■ T-LED ■ T5 ■ T8 ■ T12

## Products in H.410

### Existing Standards in Other States

- Computers and Monitors (CA)
- Hot Food Holding Cabinets (CA, CT, MD, NH, RI, WA, DC)
- Water Coolers (CA, CT, MD, NH, OR, RI and WA)
- Faucets and Showerheads (Fed, CA)

## Products in H.410

### Existing Standards in Other States

- Toilets (Fed, CA, CO, TX, GA)
- Urinals (Fed, CA, CO)
- Portable Electric Spas (CA, AZ, CT, OR, WA)

## Products in H.410

### ENERGY STAR or WaterSense

- Commercial Dishwashers
- Commercial Fryers
- Commercial Steam Cookers
- Sprinkler Spray Bodies
- Telephones (landline)
- Residential Ventilating Fans

# States Go First



## States Go First

- Washington (HB.2327)
- Massachusetts (H.3404)
- Rhode Island (Handy-Calkin bill)
- Connecticut
- New York
- District of Columbia
- California (rulemakings underway)



# Contact Info

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