



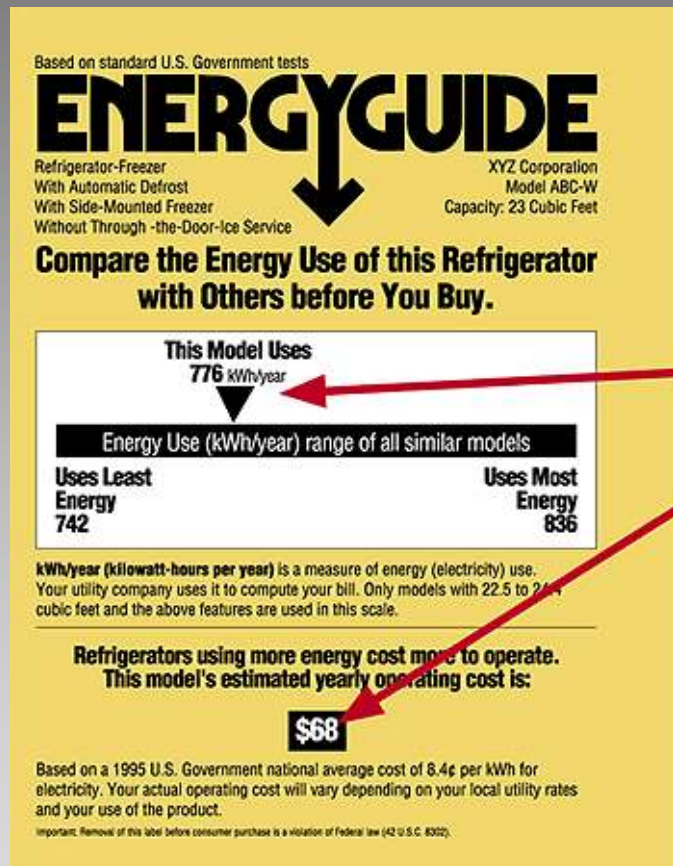
# Appliances

CEC Member Forum  
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## What is the Energy® Star label?



- 1 Projected annual kWh usage
- 2 Projected annual cost – watch the kWh price used in the calculation



## Refrigerators and Freezers:

- Energy Star® label
  - ✓ 40% reduction since 2001
  - ✓ Improved insulation
  - ✓ High-efficiency compressors
  - ✓ More precise temperature and defrost controls
- Energy Consumption
  - ✓ New models – regular 40 to 60 kWh / month
    - side-by-side 50/100 kWh / month
    - freezers 50/100 kWh / month
  - ✓ Door dispensers – add 10%
  - ✓ Automatic icemakers – add 18%
  - ✓ Anti-sweat – add 8%
  - ✓ Frequent door openings – add 6%





## Clothes Dryers:

- No Energy Star<sup>®</sup> label
- Energy Consumption
  - ✓ One hour load about 40 cents
  - ✓ Moisture sensors v. timer





## Clothes Washer:

- Energy Star® label yet
- Energy Consumption
  - ✓ One-half kWh per load
  - ✓ Hot water clothes washing – 99% of energy consumed is used for hot water
  - ✓ Small loads
  - ✓ Use high spin cycle





## Dish Washer:

- Energy Star<sup>®</sup> label
- Energy Consumption
  - ✓ New models offer many water saving features and cycle selection options
  - ✓ Standard dish waster uses 5 kWh per load plus 1 kWh for drying cycle – approximately 50 cents
  - ✓ Cheaper than doing dishes by hand
  - ✓ Booster heaters increase water temperature to 140 degrees while leaving water heater at 120 degrees
  - ✓ Do full loads
  - ✓ Use air drying instead of heated drying cycle





## Electric Range:

- Energy Star<sup>®</sup> label
- Energy Consumption
  - ✓ Who cooks anymore?
  - ✓ Average usage is 25 – 100 kWh / month



## Microwave:

- Energy Star<sup>®</sup> label
- Energy Consumption
  - ✓ Very efficient
  - ✓ Average usage is 15 kWh / month



## Space Heaters

- No Energy Star<sup>®</sup> label
- Three types:
  - ✓ Convection – entire room heaters (baseboard)
  - ✓ Radiant – object heaters (quartz, carbon tube, halogen lamps)
  - ✓ Combination with fan (ceramic)
- Very efficient if used for their intended purpose
- Energy Consumption
  - ✓ 3/4 kWh to 1 ½ kWh per hour. Depending on use from 360 kWh to 1080 kWh / month.



Recent advertisements  
promise 50% savings!  
**Not whole-house heaters**



# Thank You!

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