

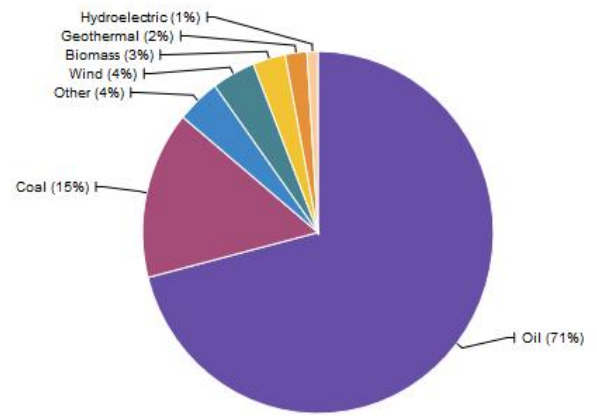


### Hawaii's Electricity Production by Source (Source: EIA)

Based on Hawaii's Electricity Production by Source (Source: EIA)

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Oil Coal Other Wind Biomass Geothermal Hydroelectric

Efficient means:

dictionary.com

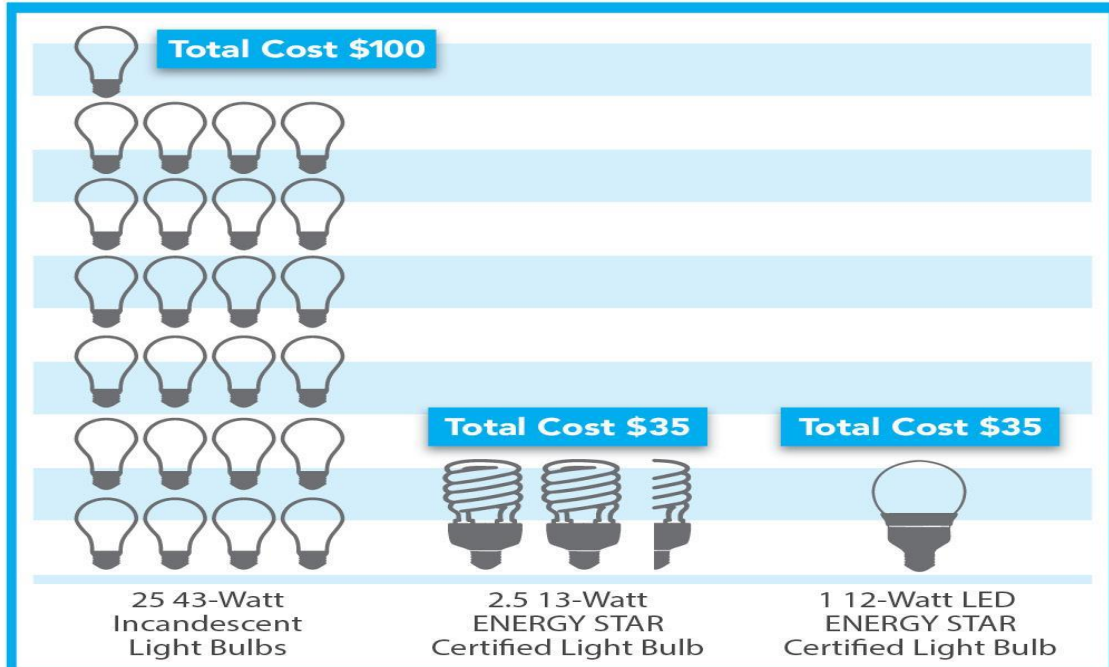
Production with the least waste of resources or efforts.

MW definition

producing something without wasting materials, time or energy

# Lifetime Savings

ENERGY STAR® certified bulbs use 70-90% less energy than incandescent bulbs, last 10 to 25 times longer, and save you \$30 to \$80 in energy bills over their lifetime.



Savings figures based on 25,000 hour LED lifetime; 10,000 hour CFL lifetime; 1,000 hour incandescent lifetime; an average lifetime electric rate of 8¢ per kWh; and an LED price of \$10, a CFL price of \$3, an incandescent price of \$0.40.

**Simple to do everywhere...**



**Think big, connect the dots! Simple to do everywhere...**



Figure 8. U.S. primary energy consumption by fuel, 1980-2040

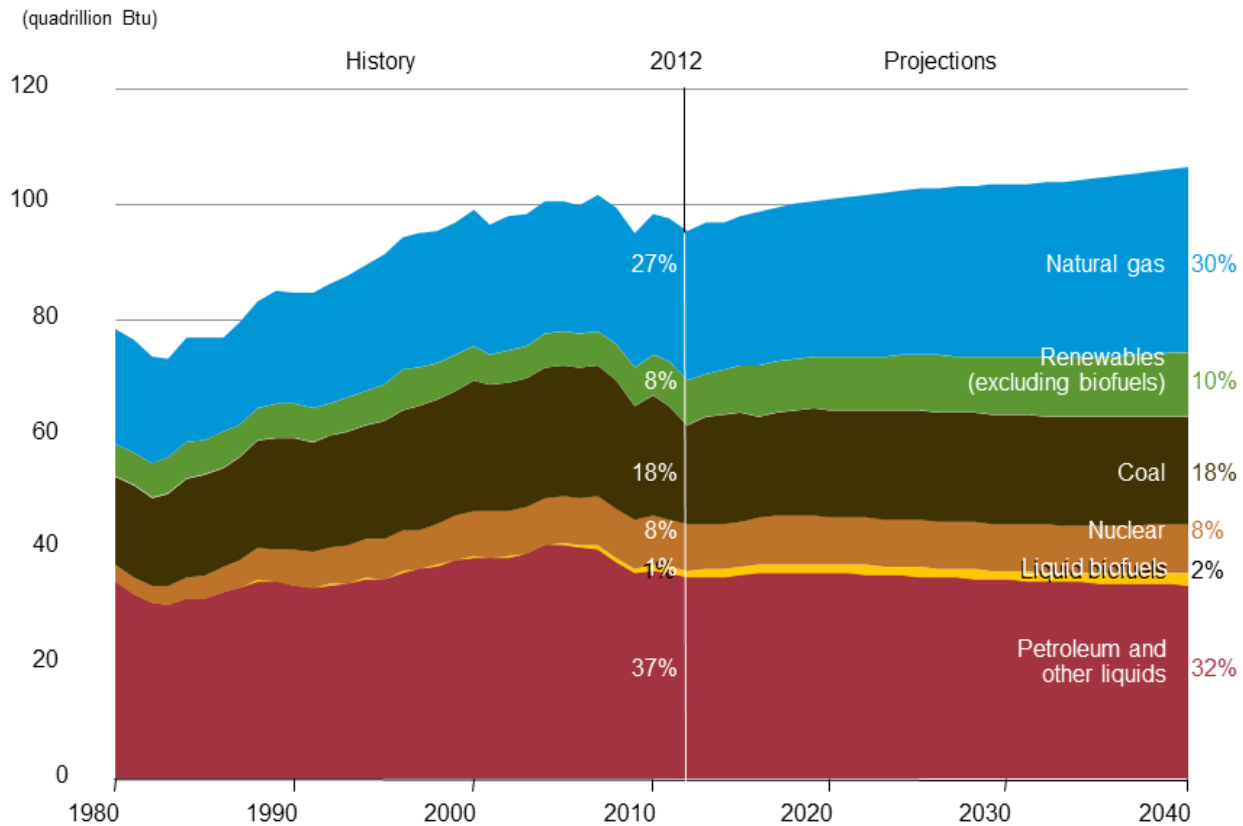
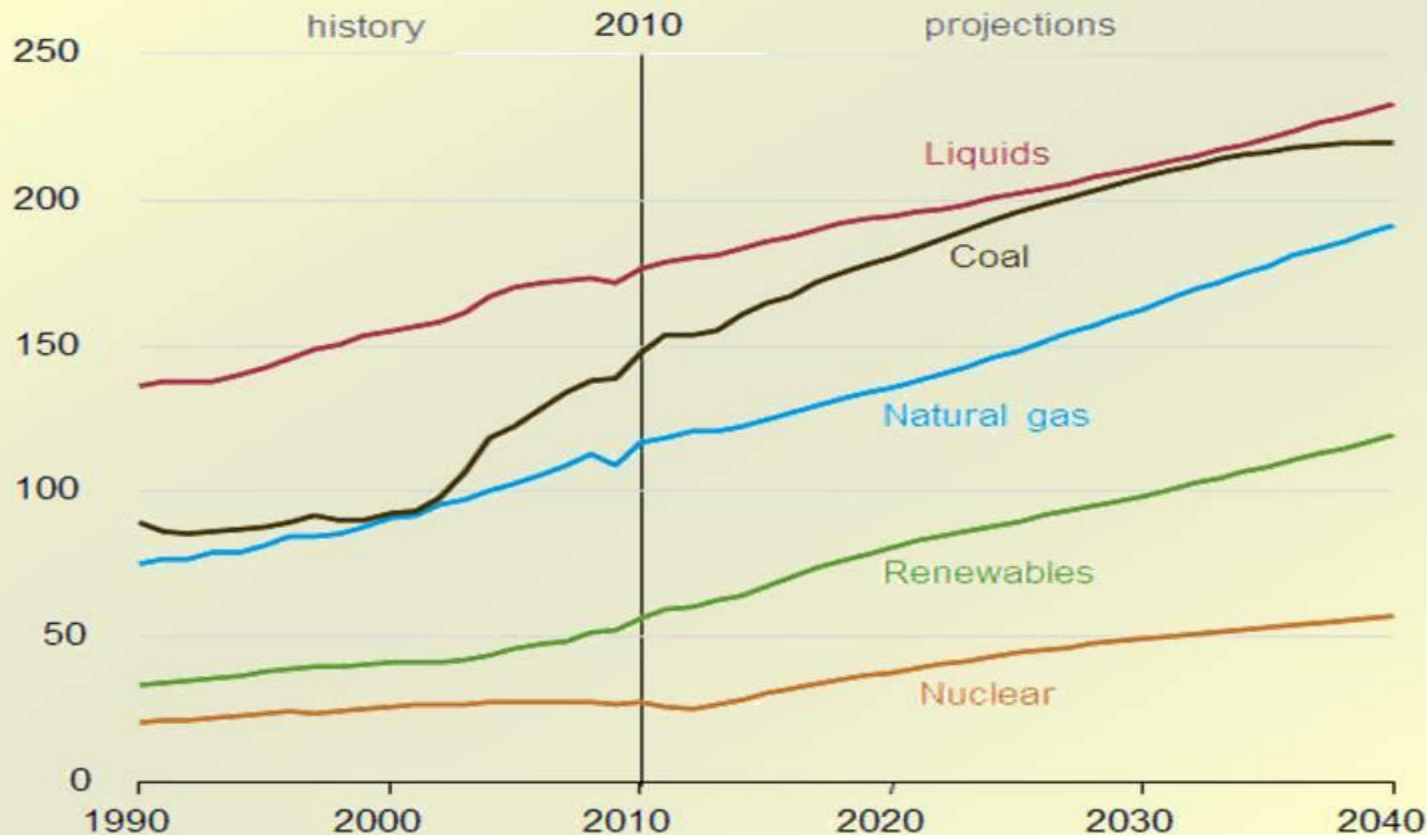


Figure 16. World energy consumption by fuel type, 1990-2040

quadrillion Btu



**Btu:** British thermal unit

one [kilowatt-hour](#) of [electricity](#) is about 3,400 Btu.

**KWh:** A kilowatt hour (kWh) is a measure of how much energy is used e.g. a 100 watt light bulb would take 10 hours to rack up 1 kWh of energy.

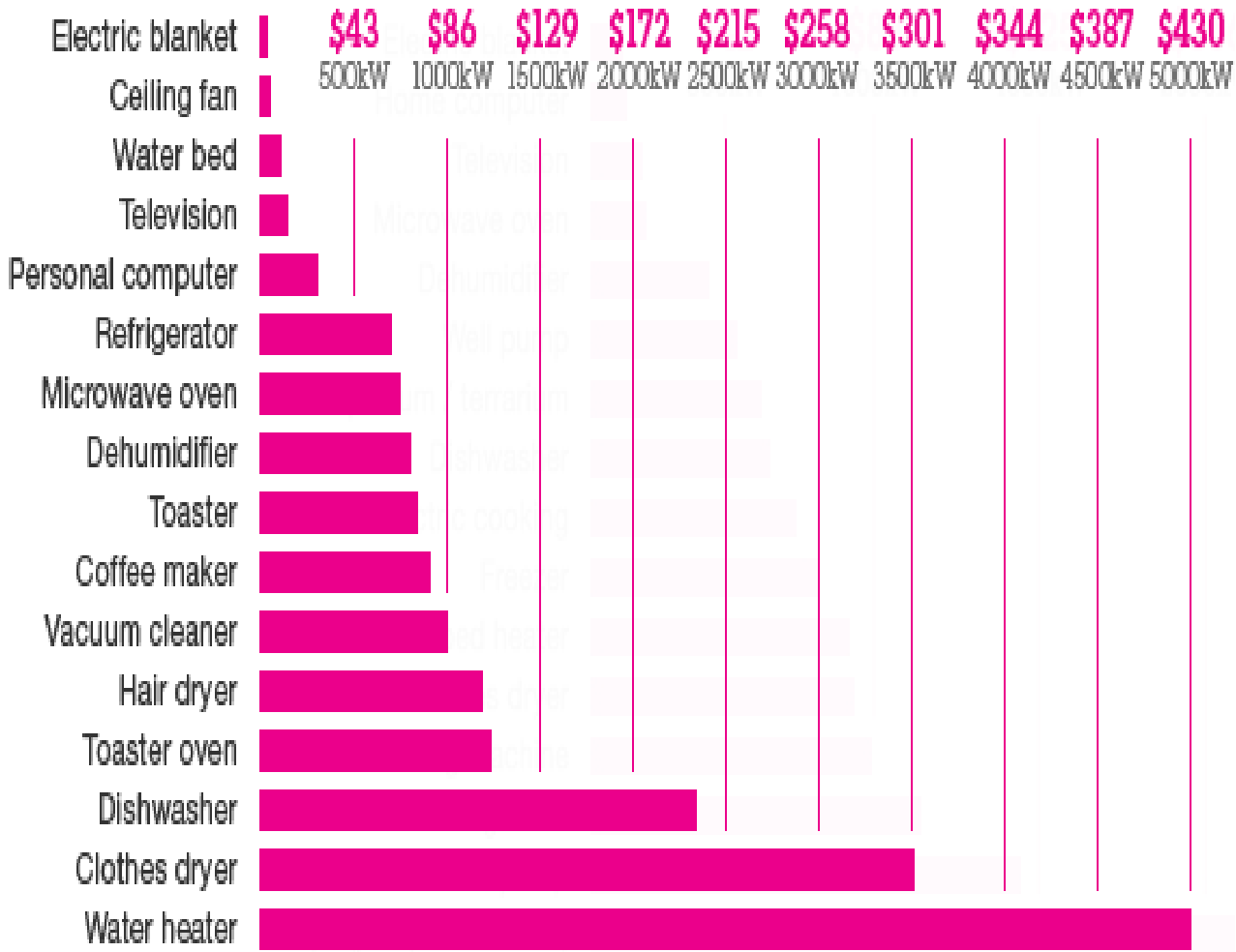
**KW:** One kilowatt (kW) is equal to 1000 watts (W)

**Watt:** The watt (abbreviated W) is the International System of Units' ([SI](#)) standard unit of [power](#) ([energy](#) per unit time), the equivalent of one [joule](#) per second. The watt is used to specify the rate at which electrical energy is dissipated, or the rate at which electromagnetic energy is radiated, absorbed, or dissipated.



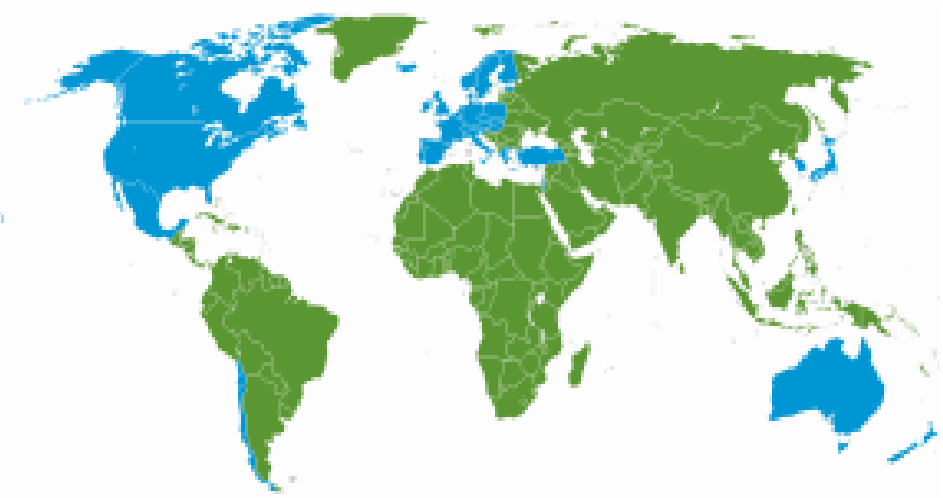
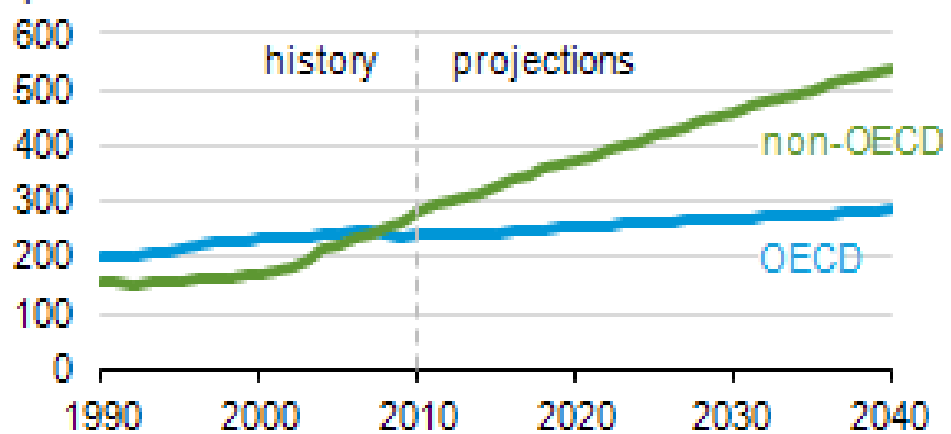
# Cost/Year

How much electricity do your appliances use?



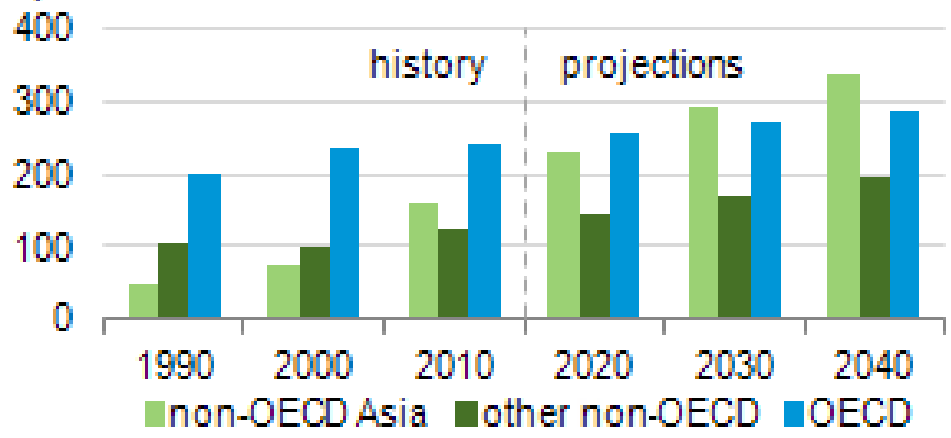
## World energy consumption

quadrillion Btu



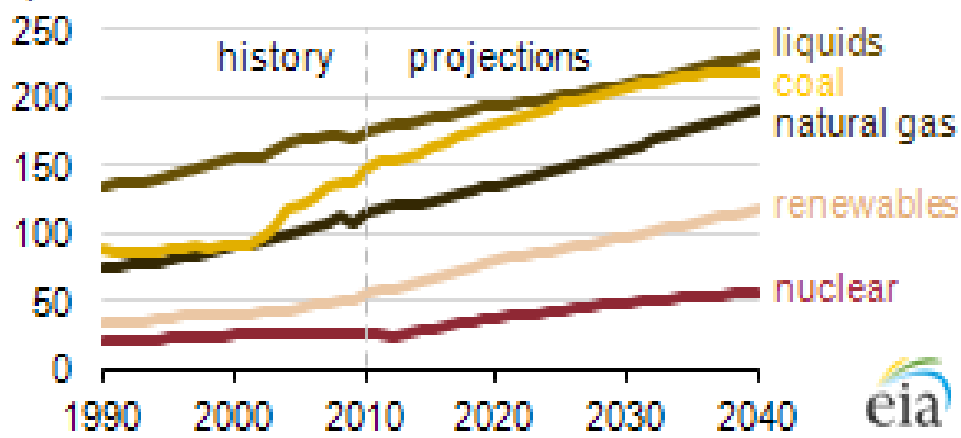
## World energy consumption

quadrillion Btu

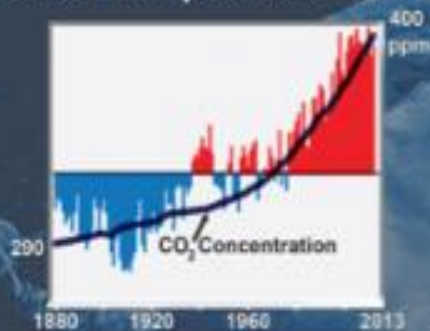


## World energy consumption by fuel

quadrillion Btu



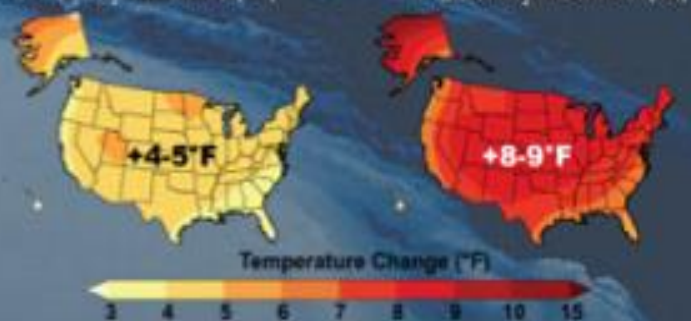
# Global Temperature and CO<sub>2</sub>



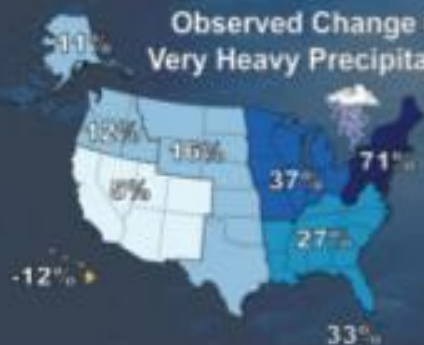
# Projected Temperature Change by 2100

Lower CO<sub>2</sub> Emissions (B1)

Higher CO<sub>2</sub> Emissions (A2)



# Observed Change in Very Heavy Precipitation



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# Arctic Sea Ice

