

Electrical Energy

On Average in the United States a person uses 1.4kW of continuous electrical power.

Sources of Energy:

Annual U.S. usage for 1 person requires

Gasoline	2,800 kg	(1,000 gallons)
Coal	5,200 kg	(10,500 lbs.)
Oil	3,000 kg	(880 gallons)
Natural Gas	2,500 kg	(126,000 ft. ³)
Fission (²³⁵ U)	1.6 g	(0.06 oz.)
Fusion (Deuterium)	0.4 g	(6.3 gallons, H ₂ O)

World Energy Resources
Annual use 0.3 Q/yr.

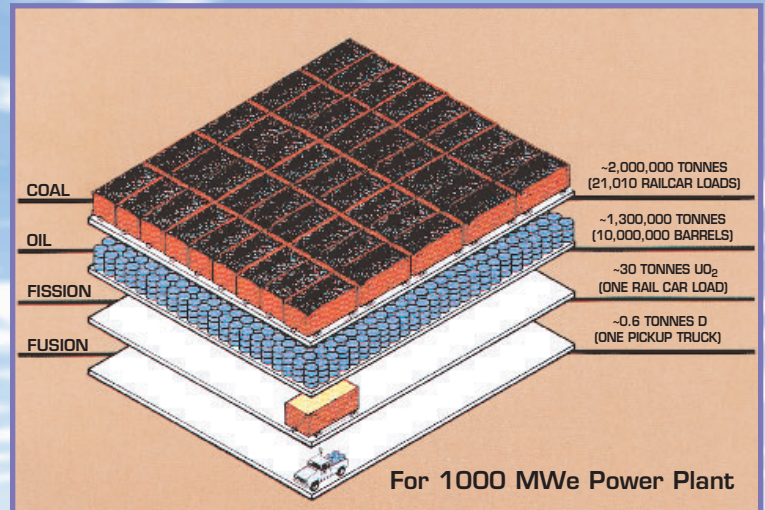
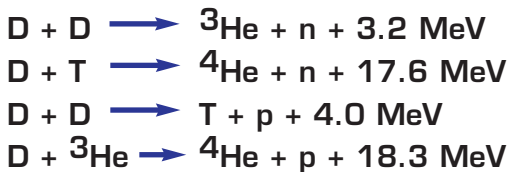
Oil	13 (~50 yrs)
Fossil	80 (~270 yrs)
Uranium	9,000 (~30,000 yrs)
Deuterium	1.6 x 10 ⁷ (~5 x 10 ⁷ yrs)

In units of Q or 10¹⁸ BTU

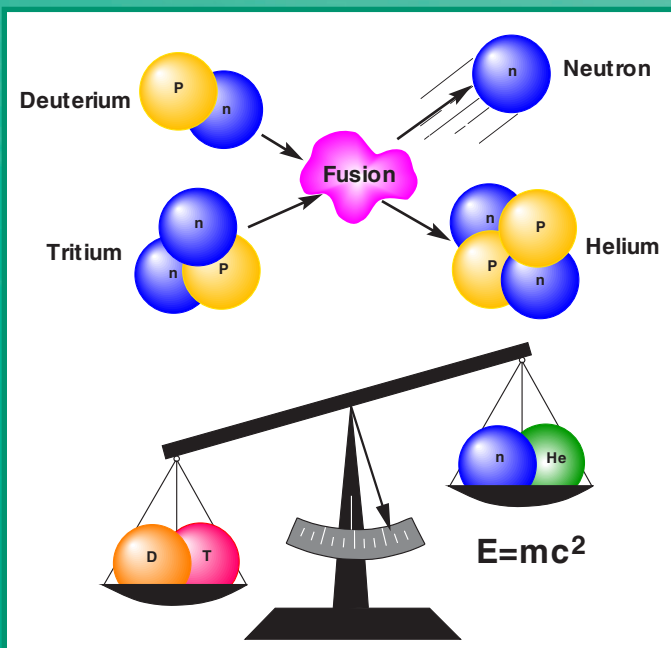
Fusion of Deuterium Represents an Essentially Inexhaustible Supply of Energy

Fusion Represents an Attractive Option for Power Generation

Examples of Fusion Reactions

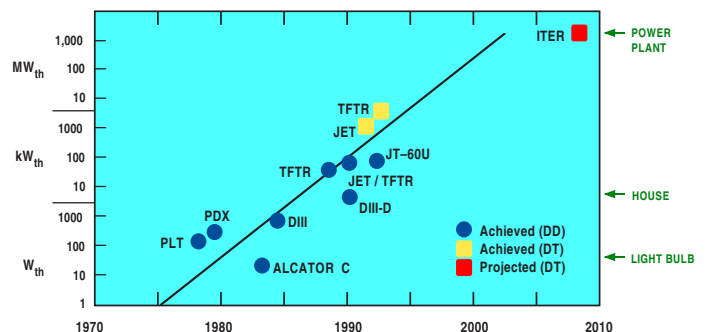


Fusion Energy Results From the Mass Lost in the Reaction



Every Year the Worlds Tokamaks Get Closer to Demonstrating Fusion

FUSION POWER



PLT Princeton Large Tokamak
PDX Princeton Divertor Experiment
JET Joint European Torus
DIII & DIII-D General Atomics Tokamak Experiments
TFTR Princeton Plasma Physics Laboratory
ALCATOR C Massachusetts Institute of Technology
ITER International Thermonuclear Experimental Reactor
JT-60U Japanese Tokamak Experiment