Energy Equivalents to 330,000,000 Megajoules
(Monthly electrification of a small US City – 100,000 homes)

Fuel Supplies

- **5 kilograms**
  - Hydrogen isotopes $^1$H and $^3$H (deuterium and tritium)

- **Solar**
  - 3 million meters$^2$ (755 acres) of direct sunlight

- **Wind**
  - 125 million meters$^2$ (31,500 acres) of wind farm surface area

- **128 railroad tank cars**
  - Of liquefied natural gas

- **56,098 barrels of crude oil**

- **150 railroad cars**
  - Of bituminous coal

- **1,877 acres of forest**

Fuel Supplies

- **Fusion**
  - No carbon dioxide
  - ~4 kilograms inert helium ash
  - ~1 kilogram neutrons (neutrons partially recycled in $^3$H regeneration and partially captured through low-level activation of structures)

- **Renewables**
  - No carbon dioxide
  - No by-products

- **Natural Gas**
  - Carbon dioxide: 17,500 metric tons
  - Carbon monoxide: 6 metric tons
  - Nitrous oxides: 14 metric tons
  - Particulates: 1 metric ton
  - Sulfur dioxides: 88 kilograms
  - Formaldehyde: 112 kilograms

- **Oil**
  - Carbon dioxide: 24,548 metric tons
  - Carbon monoxide: 5 metric tons
  - Nitrous oxides: 67 metric tons
  - Particulates: 13 metric tons
  - Sulfur dioxides: 168 metric tons
  - Formaldehyde: 33 kilograms

- **Coal**
  - Carbon dioxide: 31,135 metric tons
  - Carbon monoxide: 31 metric tons
  - Nitrous oxides: 48 metric tons
  - Particulates: 411 metric tons
  - Sulfur dioxides: 365 metric tons
  - Formaldehyde: 33 kilograms

- **Wood**
  - Carbon monoxide: 6,750 metric tons
  - Methane: 585 metric tons
  - Volatile carbons: 510 metric tons
  - Aldehydes: 90 metric tons
  - Alkyl benzenes: 105 metric tons
  - Nitrous oxides: 16 metric tons