

Energy Equivalents to 330,000,000 Megajoules

(Monthly electrification of a small US City – 100,000 homes)

Fuel Supplies

By-products

5 kilograms
hydrogen isotopes ^2H and ^3H
(deuterium and tritium)



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

Solar
3 million meters² (755 acres)
of direct sunlight

Wind
125 million meters²
(31,500 acres) of wind farm
surface area



No carbon dioxide

No by-products

128 railroad tank cars
of liquefied natural gas



carbon dioxide: 17,500 metric tons
carbon monoxide: 6 metric tons
nitrous oxides: 14 metric tons
particulates: 1 metric tons
sulfur dioxides: 88 kilograms
formaldehyde: 112 kilograms

56,098 barrels of crude 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

150 railroad cars
of bituminous 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

1,877 acres of forest



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