

Taking Energy Conservation to its Limits



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2000 Watt Society



Ten years ago, the vision of a "2000-Watt Society" was developed at the Swiss Federal Institute of Technology (ETH) in Zürich. It is a model for energy policy which demonstrates how it is possible to consume only as much energy as worldwide energy reserves permit and which is justifiable in terms of the impact on the environment. It is possible when every person in every society limits their energy consumption to a maximum of 2000 watts.

2000 Watt Society



Explanation:

Each person requires 17,500 kilowatt hours (KWh) of energy

OR

Converting energy to continuous power, 2000 Watts

Where some countries are in energy use:

Switzerland	6000 watts	Need 67 % reduction
Rural China	500	
USA	12,000	Need 83% reduction

Two Real Life Situations



My Home in Adamant

Our Home in Warren Village

Transportation

253.7 gal gas
(9160 KWh)

291 gal gas
(10,658 KWh)

Heating/Firewood

1.5 cord softwood
(8,960 KWh)

3 cords hardwood
(21,096 KWh)

Heating/Propane

20 pounds
(126 KWh)

230 gallons
(6,446 KWh)

Electricity

Net Zero
75W PV system

Net Zero
3.2KW Rated PV system

Total KWH

18,246 KWH

38.200 KWh

Or Continuous Power

2,083 Watts

4,360 Watts