

Remarks to the Energy Calculator

=> *Values for one Person*

Task **Factors involved**

Household:

Direct energy :

Heating: *Climate, Insulation*
Use of Passive and Active Solar Energy
Layout, Shape
Heating System (Oil, Gas, Heat Pump)
Hot Water Use
Cooker, Fridge, Deep Freezer
TV, PC, Light

Air Conditioning: *Climate, Insulation, Sun Protection, Equipment*

Indirect energy: *Materials (Wood, Bricks, Concrete), Construction*

Mobility:

Indirect energy: *Construction of Roads, Bridges, Tunnels*

Train: *Occupation Rate, Speed of Train*

Bus: *Occupation Rate, Type and Size of Bus*

Aircraft: *Distance of Trip, Occupation Rate, Type and Age of Plane*

Private Consumption:

Furniture, Appliances *Present Value of all Furniture and Appliances*

Goods and Services (*without mobility*): *Average Expenditures per year*

Public Consumption: *includes Infrastructure (without traffic) Education-, Health- and Legal System:*

USA, Australia: 8'000 - 10'000 kWh/y

European Countries; Japan: 6'000 – 8'000 kWh/y

Developing Countries: (1000) – 4'000 kWh/y