

ENERGY IS CONSERVED

- Electrical energy of 100 J = Light energy 40 J / Thermal energy 60 J
- Energy is always conserved.
- During this energy transformation, electrical energy is transformed into heat energy too.
- Electrical energy = heat energy + light energy + sound energy.
- $500 = \text{heat energy} + 200 + 100$
- $\text{Heat energy} = 500 - 200 - 100 = ?$
- Gravitational potential energy
- Kinetic energy = 2 J
- Kinetic energy = 3 J
- Kinetic Energy = 5 J

REDUCING WASTED ENERGY

- A led bulb is a newer type of light bulb than an incandescent bulb.
- By using insulation we can slow down heat dissipation to the surroundings.
- Year after year, the total amount of energy demand is increasing.
- Reducing wasted energy saves us money and resources.
- By improving our technology, we can use devices which have less wasted energy.
- Solar energy is a renewable and environmentally friendly energy resource.
- Electrical energy 100% = light energy 30% / heat energy 70%
- Electrical energy 100% = light energy 25% / heat energy 75%
- Initial energy = useful energy + wasted energy