

Electric Consumption:

- The price of electricity consumed is calculated on the basis of electrical energy and not on the basis of electrical power.
- The unit Joule for energy is very small hence a big practical unit is considered known as kilowatt hour (KWH) or board of trade unit (B.T.U.) or simple unit.
- 1 KWH or 1 unit is the quantity of electrical energy which dissipates in one hour in an electrical circuit when the electrical power in the circuit is 1 KW thus

$$1 \text{ KWH} = 1000\text{W} \times 3600\text{sec} = 3.6 \times 10^6 \text{ J}$$

- Important formulae to calculate the no. of consumed units is

$$n = \frac{\text{Total Watt} \times \text{Total Hours}}{1000}$$