

SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME: 19EE101-BASIC ELECTRICAL & ELECTRONICS ENGINEERING

I YEAR /I SEMESTER CSE

Topic 1: Introduction to Electricity & Parameters





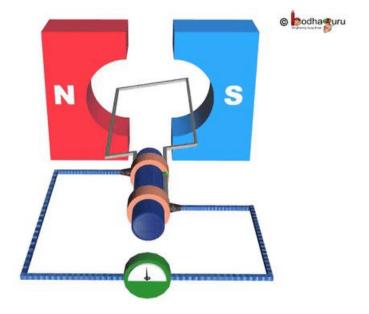


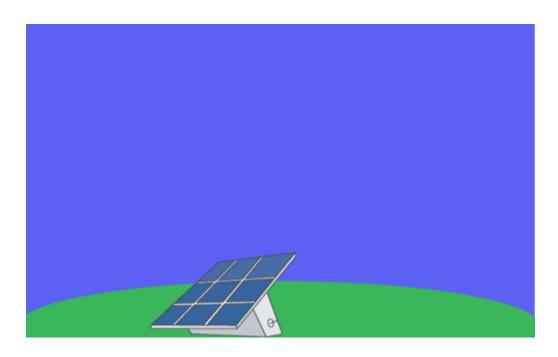


HOW DOES ELECTRICITY PRODUCED?



FARADAY'S LAW OF ELECTROMAGENETIC INDUCTION







SOLAR PV-CELL



GENERATOR

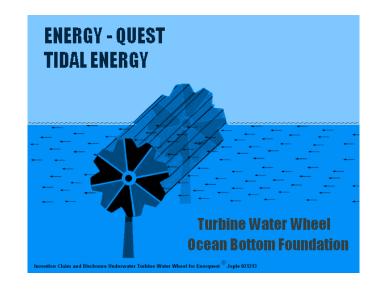




ELECTRICITY GENERATION METHODS

















ELECTRICITY PARAMETERS

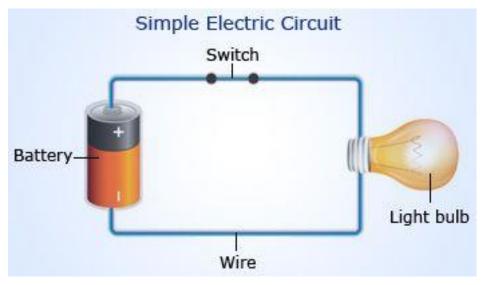


Current (I)-It is a flow of electrons in the line. It passes only in the closed path. Unit of the current is Ampere .

For example Current = 2 Ampere

Voltage (V)- It is the potential difference between two ends. Unit of the Voltage is Volts . For example Voltage V=20 Volts

Resistance (R)- It is the property to oppose the flow of current. Unit of the Resistance is Ohms . For example Resistance $R=20 \ Ohms$









ELECTRICAL SYMBOLS

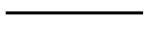




junction



wiring



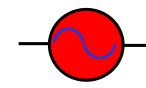
Node/



voltmeter



Terminal



ammeter



Variable resistance

generator



resistance



Variable capacitor





capacitor







MODERN TECHNOLOGIES





















Before this era?

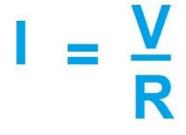


OHM'S LAW



Ohm's law states that The current that flows through most conductors is directly proportional to the voltage applied to it provided all physical conditions and temperature remain constant. Also, inversely proportional to the resistance in the conductor

Ohm's Law



Electric current = Voltage / Resistance





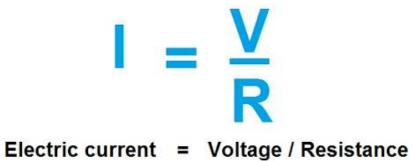


ASSESSMENT



My battery is 300 Voltage, and have the resistance of 300 ohms. Determine the current flowing through the line.

Ohm's Law



Current??







REFERENCES

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THANK YOU

