Cheatography

phy Cheat Sheet by nomis via cheatography.com/20169/cs/3017/

Electric current

- Charge flow in materials
- Amount of electricity in circuit flow

power

- Coal-fired power plant
- 33% eff
- Gas-fired power plant
- higher eff(heat source higher temp)
- more environmental friendly
- Stream turbine
- convert energy of fluid into mechanical
- energy by expansion
- stream driven rotary engine

Transformer

use induction P=VI Vs/Vp = Ns/Np = Ip/Is Ns/Np>1 step-up

By nomis

cheatography.com/nomis/

Voltage

Force or push on electron Potential difference

٩C

frequency 50Hz(direction 100times) line voltage easily up and down need larger diameter cheaper transformation between voltage easy to off less equipment, reliable economical rotating field

Smart power grid

reliable

- real time info about electricity flow

- identify, correct potential problem before occur

- grid can respond to system and reroute faster power restoration

- can auto know, no need customer call more info about power usage

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Resistance

opposition to current flow

DC

flow in one direction no skin effect, low loss need DC-AC converter to control voltage level switch to high voltage is difficult long distance, higher power p2p transmission - lower loss undersea, underground transmittion - no reactive power problem less space

Light

fire 1%, incandescent lamp 3.5% fluorescent lamp 20% LED 80%

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