

POWER GENERATION

HOW IS ELECTRICAL POWER GENERATED?

1. BY HEATING WATER AND USING THE STEAM TO DRIVE TURBINE GENERATORS. THE WATER CAN BE HEATED BY:

- ⚡ Burning coal
- ⚡ Burning gas
- ⚡ Nuclear reaction
- ⚡ Underground thermal heat
- ⚡ Solar furnace

2. BY USING WATER FLOW TO DRIVE THE GENERATORS

- ⚡ Hydroelectric - water flowing down mountains
- ⚡ Tidal - incoming and outflowing tides
- ⚡ Wave power - movement of water up or down

3. BY USING AIR TO DRIVE THE GENERATOR

- ⚡ Wind turbines

4. ELECTRONIC CONVERSION OF SUNLIGHT

- ⚡ Solar panels - converting light energy directly to electrical energy

5. BY CHEMICAL REACTION

- ⚡ Batteries - reaction between metals or metals and acids