

UNIT 3:
NONRENEWABLE
AND
RENEWABLE
RESOURCES

NONRENEWABLE RESOURCES



A nonrenewable resource is a natural resource that cannot be re-made or re-grown at a scale comparable to its consumption.



NUCLEAR ENERGY

Nuclear fission uses uranium to create energy.



Nuclear energy is a nonrenewable resource because once the uranium is used, it is gone!

COAL, PETROLEUM, AND GAS



Coal, petroleum, and natural gas are considered nonrenewable because they can not be replenished in a short period of time. These are called fossil fuels.

RENEWABLE RESOURCES

Renewable resources are natural resources that can be replenished in a short period of time.

- Solar
- Wind
- Water
- Geothermal
- Biomass



SOLAR

Energy from the sun.

Why is energy from the sun renewable?



GEO THERMAL

Energy from Earth's heat.

Why is energy from the heat of the Earth renewable?



WIND

Energy from the wind.

Why is energy from the wind renewable?



BIOMASS

Energy from burning organic or living matter.

Why is energy from biomass renewable?

WATER or HYDROELECTRIC

Energy from the flow of water.

Why is energy of flowing water renewable?



HOOVER DAM

ENERGY

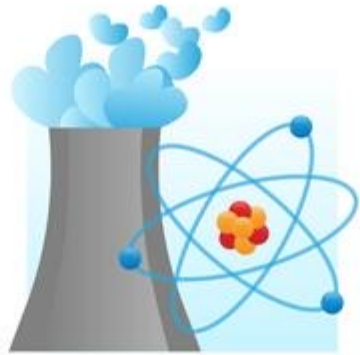
Non-renewable Energy



Oil



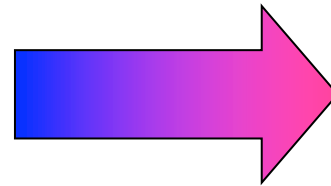
Coal



Nuclear



Natural Gas



Renewable Energy



Wind



Hydropower



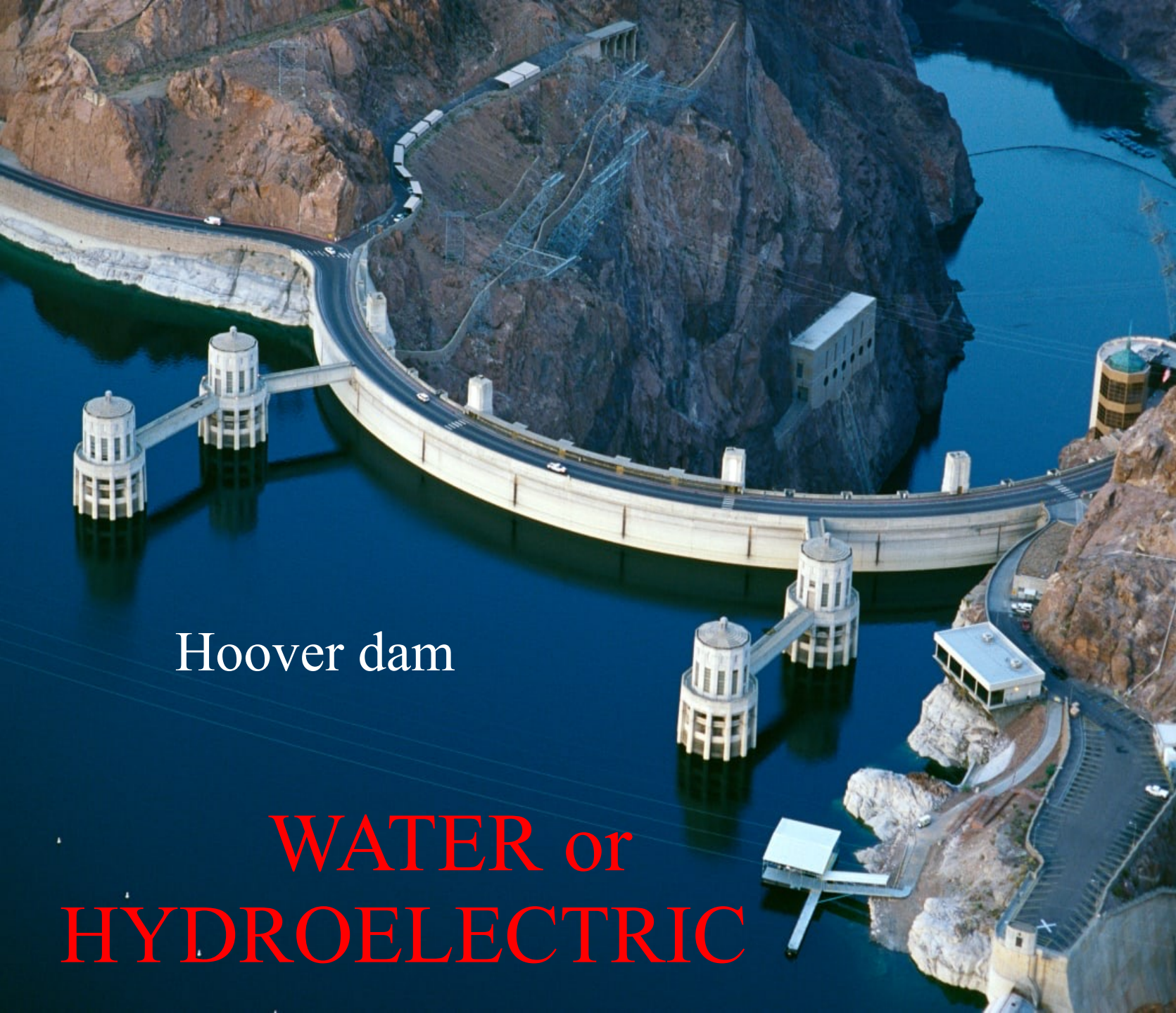
Solar



Geothermal



Biomass



Hoover dam

**WATER or
HYDROELECTRIC**



Energy from the
flow of water.

Solutions for global warming

- Renewable energy such as wind and solar
- Eco-fuels: Bio-fuel
- Eat, drink and shop: green product
- City limits
- Sustainable forestry
- Green building
- Green school
- Eco house
- Green Project



Solutions for global warming

UK bans petrol, diesel car sales from 2030.

German gives €5B auto industry aid to the country's auto industry to support the transition to electric cars.



Ref: <https://wikioftesla.blogspot.com/2020/06/electric-car-gif.html>

Solutions for global warming



Electric cars in Shanghai



The flying car completes first ever inter-city flight.

A 35-minute flight from the international airport in Nitra, Slovakia to the international airport in Bratislava, Slovakia on June 28th, 2021.



Conclusion

1. Renewable and Non-renewable energy