

What defines energy?



Energy is **the capacity for doing work**. It may exist in potential, kinetic, thermal, helectrical, chemical, nuclear, or other forms. 29-Aug-2022

# Classification of Energy

- Primary Energy sources ( natural gas, crude oil )
- Secondary Energy sources ( refined crude oil products )
- Commercial Energy sources ( electricity )
- Non-commercial Energy sources ( firewood )
- Renewable Energy sources ( wind energy )
- Non-renewable Energy sources ( hydropower )

Surge tanks are applied in hydropower plants with long water conduits to **reduce pressure forces during the acceleration of the large water masses**. They are constructed as intermittent water reservoirs close to the turbines, either with open access to atmospheric air or as a closed volume filled with pressurized air.

## **Main types of nuclear reactor**

- Pressurised water reactor (PWR) ...
- Boiling water reactor (BWR) ...
- Advanced gas-cooled reactor (AGR) ...
- Light water graphite-moderated reactor (LWGR) ...
- Fast neutron reactor (FNR) ...
- Operable nuclear power plants.

**Generating energy that produces no greenhouse gas emissions from fossil fuels and reduces some types of air pollution.**

Diversifying energy supply and reducing dependence on imported fuels. Creating economic development and jobs in manufacturing, installation, and more.