

# Hydroelectricit

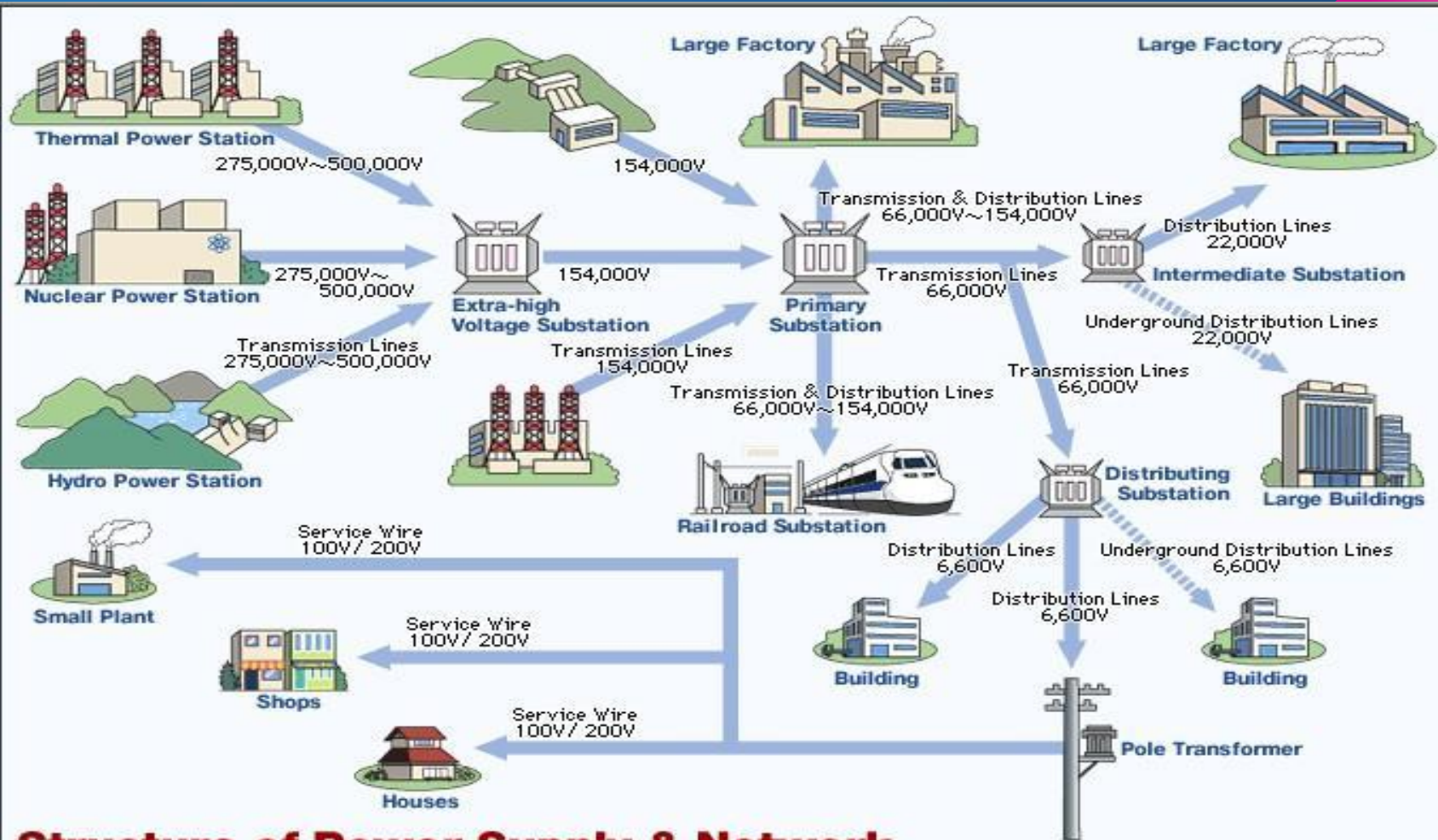
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BEC 6th Week Energy Lesson

# What Is Hydroelectricity Energy?

Hydroelectric energy which is also known as Hydropower is power that is created by flowing water. This can be captured and turned into energy.

The most common type of hydroelectric power plant uses a dam on a river to store water in a reservoir. Water released from the reservoir flows through a turbine, spinning it, which in turn activates a generator to produce electricity.



**Structure of Power Supply & Network**

# History of Hydroelectricity Energy

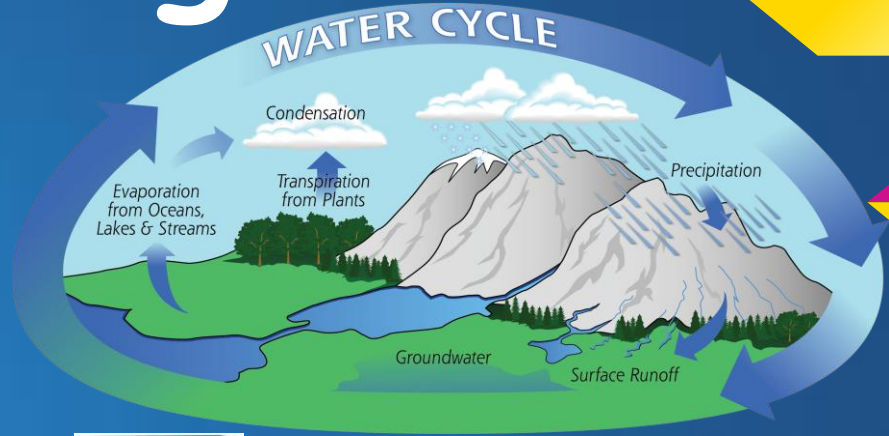
Hydroelectric energy has been around for thousands of years. The building of turbines-wheels turned by water flow was done by the Ancient Romans.

The most common source of hydroelectric energy was the water mills (which were large wheels usually located on the banks) and they were common right up until the Industrial Revolution.

The first Edison hydroelectric power plant was built in 1882 on Fox River in Apple Wisconsin and by 1889 there were 200 hydroelectric plants in the US alone.

# Advantages

1. Renewable
2. Green
3. Reliable
4. Flexible
5. Safe



# Disadvantages

1. Environmental Consequences
2. Limited Reservoirs
3. Expensive
4. Droughts
5. Gets Dirty



# How Water Flow Is Converted to Electricity?



# Conowingo Dam





# Waterwheel Activity

