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③ Explain the various methods of tidal power generation.

→ These are four methods of tidal power generation.

① Tidal Steam generator

② Tidal Barrage

③ Dynamic Tidal power

④ Tidal Lagoon.

① ⇒ Tidal steam generator ⇒ This method is used to extract energy from running tides of water. We can use that energy to produce electrical energy by tidal steam method.

② Tidal Barrage : Tidal Barrage is just like a dam and it works on the same principle as the traditional dam but there is one difference between them. In a traditional dam, water is stored on one side and then converted to potential energy to kinetic energy to rotate the blades of a turbine to produce electrical energy and tidal barrage.

③ Dynamic : This method involves the creation of a long dam like structure perpendicular to the coast with the option for a coast parallel barrier at the far end, forming a large T-shape to harvest energy from the tides.

④ → Tidal lagoon.

A newer tidal energy design option is to construct circular retaining walls - embedded with turbine that can capture the potential energy of tides.

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• 0 Thermal