

Ans ⇒ Tidal power generation ⇒

Gravitational pull by sun and moon result in the tides. This type of energy can be harnessed by constructing the tidal barrage.

During low tides the water stored in the reservoir flows in the sea and operates the turbine which in turn produces electricity, by rotating generators.

four methods of Tidal power production -

- 1- Tidal steam generators
- 2- Tidal barrage
- 3- Dynamic Tidal power
- 4- Tidal lagoon

1- Tidal steam generator → Tidal steam generator method is use to extract energy from running tides of water. you see flowing water at high speed which means that water have huge amount of kinetic energy ~~store~~ we can use that energy to produce electrical energy by tidal steam method.

Tidal Barrage \Rightarrow Look of

Tidal Barrage is just like a traditional dam and it work on the same principle as the traditional dam. One difference between them traditional dam store water on one side and then convert the potential energy to kinetic energy and use that kinetic energy to rotate the blades to turbine to produce electrical energy and ~~that~~ tidal barrage use this method on both side of Barrage -

Dynamic tidal power

It is the most complicated, least well understood tidal power scheme yet conceived. This method involve the creating of a long dam-like structure perpendicular to the coast, with the option -

Tidan Lagoon - A Newer tidal

Energy design option is to construct circular retaining walls embedded with turbine that can capture the potential energy of tides. The Tidan Lagoon is very similar to tidal barrage method of using tides generator power - 0