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Answer

There are four methods of Tidal Power production:-

1) Tidal stream generator:-

Tidal stream generator method is use to extract energy from running tides of water. Many of you may have a visit of a river where you see flowing water at high speed which means that water have huge amount of kinetic energy store in it and we can use that energy to produce electrical energy by tidal stream method.

2) Tidal Barrage:-

Look of tidal barrage is just like a traditional dam and it work on the same principle as the traditional dam do but there is one difference between them traditional dams 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 tidal barrage use this method on both sides of the barrage.

3) Dynamic tidal power:-

It is a fact that ocean tides don't operate strictly perpendicular to the shore, but also flow in parallel to the shore as well and dynamic tidal power used this method to generate electricity.

4) Tidal Lagoon:-

The tidal lagoon scheme is very similar to the tidal barrage method of using tides to generate power. In fact, the only real difference between two methods is that tidal lagoon does not block off an entire estuary, but rather makes use of only part of it. During the high tide water level around the lagoon will increase and try to move in the lagoon and during low tide water will move outside in both direction it will produce electricity