

Answer Ques no-4

Ans Explain various methods of tidal power generation, these are the various methods of tidal power generation. This tidal electricity generation works as the tidal comes in and again when it goes out the turbines and driven by power of the sea in both directions.

These are four methods of tidal power generation. These are four types only.

1.) Tidal Stream generators (TSG)

2.) Tidal Barrage.

3.) Dynamic Tidal Power.

4.) Tidal Lagoon.

~~1.) Tidal Stream generators~~

The limitation of each method.

Limitation of Tidal Stream Generator.

- 1.) Sea water is corrosive.
- 2.) marine life is affected for human.
- 3.) the efficiency of plant is affected due to variable tidal range
- 4.) Output power is variable due to uneven operation
- 5.) the tidal is the time specific base load meaning it cannot conform to peak demand.
- 6.) Generation post are usually far away from collection section leading to high cost of transmission line
- 7.) tidal fences in order to mitigate fish migration should be difficult to construct and maintain
- 8.) maintenance of machinery is difficult when performed in underwater or at sea.
- 9.) the variation of hardware through the day the plants effectiveness is slightly compromised