

## TIDAL POWER

1. Fill in the gaps with words provided. Beware of the spelling or it will be marked as a mistake.

turbines	tides	technologies	natural	levels
high	generator	five	fences	efficient
drop	dam	change	barrages	back

Tidal power uses the ----- change in sea ----- to generate electricity. Coast lines often experience two low ----- and two ----- tides on a daily basis. The difference in water levels must be at least ----- metres high to produce electricity. Tidal electricity can be created from several ----- : tidal -----, tidal ----- and tidal ----- . The most ----- technology is tidal barrages. As the levels of water -----, water is held ----- in a tidal barrage, which is a small ----- that releases water back through a turbine. This, in turn, generates electricity using a ----- . The amount of power that is generated depends on the ----- in tide level throughout the day.

2. Classify the following statements into advantages (A) or disadvantages (D) of TIDAL POWER:

- Tidal movements are not dependent on weather conditions
- Renewable (Unlimited supply)
- Limited to specific coastal areas
- It does not produce carbon dioxide
- It does not contribute to global warming, ozone depletion and does not cause acid rain
- Impacts on the tourist industry and local fishers
- Easy to install
- Very predictable energy source because the ocean's tidal patterns are well understood.
- Tide cycles do not always match the daily consumption patterns of electricity and therefore do not provide sufficient capacity to satisfy demand.