

Applications of Tidal Energy Conversion:

- * Electricity can be generated from the tidal energy.
- * Tidal energy is used in grinding mills for the mechanical crushing of grains.
- * Tidal energy is used to rotate a turbine.
- * Tidal energy is used to store energy in a hydro-electric dam, acting as large energy storage.
- * Tidal barrages and reservoirs can be modified to store energy.
- * Tidal barrages are capable of preventing damages to the coast during high storms.
- * Tidal barrages also help to create easy transport between the two arms of an estuary.

Advantages:

- ✓ It is environment friendly.
- ✓ It is cheaper & efficient.
- ✓ Low operating and maintenance costs.
- ✓ The source of energy is inexhaustible.
- ✓ protects coastal flooding.
- ✓ Tidal energy sources can last for decades.
- ✓ power output is highly predictable.

Disadvantages:

- * Location limited.
- * Negative influence on marine life forms.
- * Storage capacity is required.
- * Environment problems, like habitat change, arises.
- * Equipment repairing and maintenance is difficult.
- * Construction of tidal power plants is expensive and requires high capital investment.