

4) Tidal power generation can be classified into four generating methods

① Tidal steam generator—

Tidal steam generators make use of the kinetic energy of moving water to power turbines, in a similar way to wind turbines that used the wind to power turbines.

② Tidal ~~bridge~~ barrage

Tidal barrages make use of the potential energy in the difference in height between high and low tides. When using tidal barrages to generate power, the potential energy from a tide is seized through strategic placement of specialized dams.

### 3) Dynamic tidal power

Dynamic tidal power is a theoretical technology, that would exploit an interaction between potential and kinetic energies in tidal flows.

### 4) Tidal Lagoon

a new tidal energy design option is to construct circular retaining walls embedded with turbines that can capture the potential energy of tides.