

Section → 4

Basic Principles of the OTEC →

The principle of ocean thermal energy conversion is that there is a temperature difference between at the bottom of the sea and the water at the top. This temperature difference can be used to operate a heat engine and most of the radiation is being absorbed at the surface layer of water.

Type of OTEC System:

There are two basic types of OTEC system.

- (a) closed cycle system
- (b) open cycle system

Open cycle OTEC system

In this system, the warm water from ocean surface is admitted through the deaerator to the flash evaporator which is maintained under high vacuum.

The mixture of condensed steam and ocean cold water are discharge in to the ocean.

