




World Ocean Energy Resource Potentials (est.), TWh/y:	
Tides	300+
Marine Currents	800+
Waves	8000 - 80 000
Salinity Gradient	2000
Thermal Gradient	10 000

Source: IEA-OES, Annual Report 2007

 Gulf Stream route


 Wave energy power (over 40 kW/m annual)


 The most potential places of the highest tides


Sources: National Oceanic and Atmospheric Administration (NOAA); NASA Earth Observatory; Wikipedia.

Sources:  
International Renewable Energy Agency (IRENA);  
National Renewable Energy Laboratory (NREL);  
National Oceanic and Atmospheric Administration (NOAA);  
NASA Earth Observatory; Wikipedia et al.

**Ocean temperature difference between surface and depth of 1000 m:**


 More than 24°C


 20° to 24°C

 Less than 20°C

Sources: National Renewable Energy Laboratory (NREL); Wikipedia.

**Patenting activity of the countries around the world based on the number of patent applications filed in WIPO in 2009-2018:**

 countries, whose residents were among the top 25 applicants

 countries whose residents weren't among the top 25 applicants or didn't file applications

**List of some wave power plants, kW:**

- 1 Perth Wave Energy Project, Australia, 5000
- 2 Oceanlinx Port MacDonnell, Australia, 1000
- 3 Mutriku, Spain, 300
- 4 Islay LIMPET, Scotland, United Kingdom, 250
- 5 Hawaii Azura, United States, 20

**List of some OTEC plants, kW:**

- 1 MOE/NELHA Hawaii, United States, 100
- 2 Xenesys Inc./IHI/Yokogawa Okinawa, Japan, 50
- 3 Saga University, Imari, Japan, 30
- 4 KISOT, South Korea, 20

**List of some osmotic power plants, kW:**

- 1 Statkraft Tofte (Hurum) pilot plant, Norway, 10

**List of some tidal energy power plants over 1 MW, MW:**

- 1 Incheon Bay, South Korea, 1320\*
- 2 KWRC Sihwa Lake, South Korea, 254
- 3 La Rance, France, 240
- 4 Annapolis Royal, Nova Scotia, Canada, 20
- 5 Jiangxia, China, 3.2
- 6 Kislaya Guba, Russia, 1.7
- 7 Malaya (Minor) Mezenskaya, Russia, 1.5
- 8 Uldolmok, South Korea, 1.5
- 9 SeaGen Strangford Lough, Northern Ireland, United Kingdom, 1.2
- 10 Eastern Scheldt Project (Tocado T2), 1.2, Netherlands
- 11 Verdant Power RITE Demo Plant, New York, United States, 1.0

\* under construction