CLAIMS

1. A system for converting kinetic energy of sea wave into electricity comprising:

a tower (1) fixed to the seabed; and

a floating power plant (2) having:

a steel triangular based pyramid framework;

a plurality of pontoons (3) at all of three corners of the triangular base for keeping the floating power plant (2) afloat; and

a Oneway Direct drive Shaft Converter, ODSC, for converting sea wave kinetic energy into electrical energy;

wherein the floating power plant (2) is hinged to the tower (1) at a pivot point (4) and cooperates with the plurality of pontoons (3) for keeping the front of the floating power plant (2) turn towards the wave propagation direction, while keeping the ODSC aligns perpendicularly against the wave propagation at all time.

2. The system as claimed in claim 1, wherein the tower is a site station and a pivot of the floating power plant.
3. The system as claimed in claim 1 or claim 2, wherein the pontoons (3) are in the form of a spindle-like or ship-liked buoyant vessel.
4. The system as claimed in any claim of claim 1 to 3, wherein the pivot point for self-alignment is settled in front of the center of mass of the floating power plant.
5. The system as claimed in any one of claims 1 to 4, wherein the ODSC is installed on the floor, parallel to the rearward of the triangular base of the floating power plant (2).
6. The system as claimed in any one of claims 1 to 5, wherein the ODSC includes:

a plurality of attenuators (5);

a one-way rotation clutch and meshing gear system (6); and

a drive shaft (7).

7. The system as claimed in claim 6, wherein the attenuators (5) are in the form of a circular lever with constant radius sector.

8. The system as claimed in claim 6 or claim 7, wherein the attenuators (5) are made of materials, which the gross density is less than the seawater density.
9. The system as claimed in any one of claims 6 to 8, wherein the attenuators (5) have a circular arc immersed into the sea surface to capture sea energy.
10. The system as claimed in any one of claims 6 to 9, wherein a center tip end of the attenuators (5) is, upright and coupled to a pivot shaft utilized as a fulcrum.
11. The system as claimed in claim 10, wherein the pivot shaft is a pivot of a one-way rotation clutch system and a meshing gear system.
12. The system as claimed in claim 10, wherein at the fulcrum, each attenuator, the one-way rotation clutch and meshing gear system, and the drive shaft system are coupled together.
13. The system as claimed in claim 11, wherein the one-way rotation clutch system includes one or more one-way clutches or bearings to control the rotation direction of the driving torque.
14. The system as claimed in claim 11, wherein the meshing gear system includes one or more oneway clutches and bearings to convert an opposite free rotation into an all time one-way rotation driving torque.
15. The system as claimed in claim 14, wherein the meshing gear of the meshing gear system is coupled to the drive shaft to the direction converted torque.
16. The system as claimed in any one of claims 6 to 15, wherein the plurality of attenuators, the one-way rotation clutch and meshing gear system are assembled along the drive shaft in a discrete pattern alignment, by leaving void or space between each attenuator.
17. The system as claimed in claim 16, wherein the channel spacing between each attenuator is adjustable and varies to the degree of severity of the sea wave.
18. The system as claimed in any of claims 6 to17, wherein one of the ends of the drive shaft is coupled to an electric generation system to generate electricity and then transmit ashore by a submarine power cable.
19. The system as claimed in any one of claims 1 to 18, wherein one or more of the systems are upscale or comprised into a bigger network to gain more capacity.