SEA BEATS.. Whereas water.. There is life.. There is energy

From Santa Monica beach or pier looking to the horizon, a mysterious body rests above the sea holding a beating sphere imitates sea waves’ movement. It reminds us that water is the source of life on earth and we should protect it. Sea as Nature always sends us messages. Therefore the illuminated sphere translates sea waves messages as beatings can be seen from the beach, pier or sea to inform people wither it’s time for swimming, fishing or skiing. As walking towards the curvy body, you will start revealing the activity zones: water music, fountains works by jumping and huge flexible mattress that moves up and down with the wave movement creating a place for various activities from relaxing water waves while enjoying the fabulous sea view to jumping and running. The curvy body ends up with a circle theatre to held science or environmental shows.

The project uses Cycloidal system to convert sea waves to electricity. A cycloidal Propeller consists of one or more blades oriented parallel to a main shaft, and attached at a radius. To convert waves into useful electrical energy, the CycWEC must synchronize with ocean waves, perfectly cancelling the wave by producing an anti-wave 180 degrees out of phase. In doing so, the CycWEC extracts the sea energy to drive a shaft on a generator, converting the wave power into electrical power.

The average power generated by this art work is 3 MW/m.

Environmental impact:

Creating a space for public activities on top of green energy generator farm enhances the feeling of being attached to the place and proves that sustainability could be fun.

Sea beats uses a system to generate electricity from sea without producing any emissions or wastes and the body will be built from recycled material to be friendly to environment.