LAGI 2016

It is a beautiful day. Sun, sky, sea, music, sprays of water. You walk towards the end of the pier. There is a little girl playing what looks like an organ. It is a new thing. Newly installed. The sound came from the pipes erected in the in middle of the sea. The sound is like a choir of dolphins and whales. It echoes across the sea to the beach.

The sprays of water is beautiful. Its directions always changing.

*Visible, invisible,*

*A fluctuating charm,*

*An amber-colored amethyst*

*Inhabits it; your arm*

*Approaches, and*

*It opens and*

*It closes;*

*You have meant*

*To catch it,*

*And it shrivels;*

*You abandon*

*Your intent—*

*It opens, and it*

*Closes and you*

*Reach for it—*

*The blue*

*Surrounding it*

*Grows cloudy, and*

*It floats away*

*From you.*

*A Jelly fish, Marianne Moore, 1887 - 1972*

Environmental Impact

The proposed CETO wave energy system from Carnegie operates under water where it is safer from large storms and practically invisible from the shore. The fully submerged buoys drive pumps and generators that are contained offshore, within the buoy itself, with power delivered back to shore through subsea cables to power desalination plants as well as for export into the grid.

CETO Technology converts ocean wave energy into zero-emission electricity and desalinated water. Environmentally friendly, has minimal visual impact and attracts marine life. Fully-submerged in deep water, away from breaking waves and beachgoers, and safer from storms.

Proposed design utilises a translucent plexiglas hull illuminated to mimic jellyfish. The soft light attracts marine life at night. The pump expels water and air. Water is spray like a fountain, air discharged through organ pipes.

Advantages of CETO

* No Visual Impact – fully submerged
* Flexible -operates in variety of water depths, swell directions, tides & seafloor conditions, onshore & offshore power generation
* Storm Survivability – fully submerged & energy dampening system
* Security – provides emissions free sustainable energy and water security to countries & islands
* Scalable – modular array design
* Minimal – environmental impact, co-exists with marine life.
* Desalination – zero-emission freshwater & co-production possible