

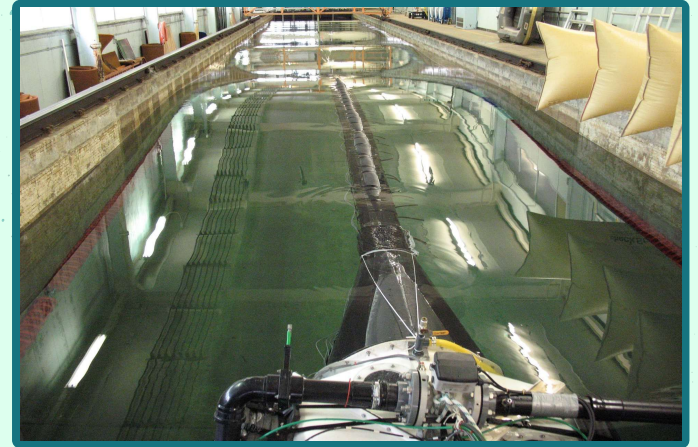
Bulgewave



✦ by Giulio Lentini, Nicolò Cesandri, Alex Lombardi, Andrei Vizitiu and Manuel Vela ✦

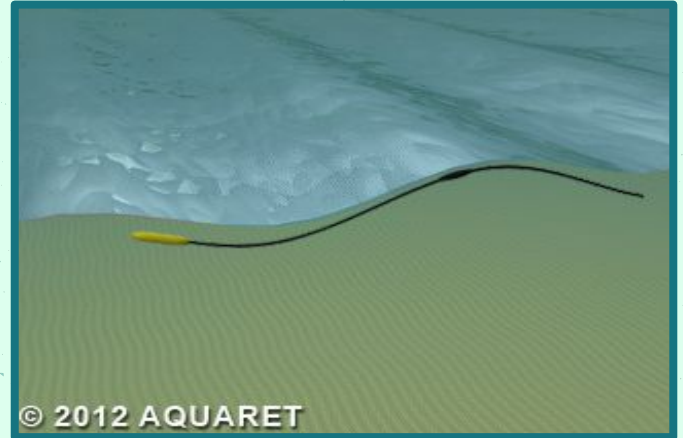
WHAT IS BULGE WAVE

The Anaconda wave energy converter is a novel concept for wave energy conversion invented by Rod Rainey. The system essentially consists of a rubber tube filled with water which is placed in the sea. Both ends of this rubber tube are sealed and it is anchored with its head to the waves. It is squeezed re variations along its length.



HOW DOES IT FUNCTION?

The Anaconda concept is a running bulge wave generated by squeezing the water-filled rubber tube. It is designed so that its bulge wave speed is close to the speed of the external water waves above. In this resonance condition the bulges grow as they travel along the tube, gathering wave energy. Inside the tube, the bulge waves are accompanied by a periodically reversing flow. One way of extracting power from Anaconda is to use a pair of duck-bill valves to convert this power into a rectified flow past a turbine between high and low pressure reservoirs.



Pro



- Eco Sustainable Energy
- Adapts to the sea ecosystem
- It doesn't cost too much likes other fonts of renewable energy



Contro



- It cause height of elevated waves
- It produce small quantities of energy



❁ Sitography: ✨

<https://www.neptunewave.ca/wave-energy-devices-patents>

<https://energy.soton.ac.uk/anaconda-wave-energy-converter-concept//>

https://it.m.wikipedia.org/wiki/Energia_de_l_moto_ondoso