## **Cnidaria Halitus**

Our proposal harnesses the natural forces of the sun and the tides to produce 160 thousand gallons of potable water per day for the city of Santa Monica, relying completely on solar energy with no fossil fuel use.

Multiple collectors absorb an average of 590,400 kWh/m2/day, concentrating this solar energy on each of the boilers, which then evaporates the seawater. The breakwater is used to channel the currents and concentrate them in channels, where the turbines are located and harness the flowing kinetic energy of the tides to generate electricity, used to pump the water up and to heat the boilers at night.

This project provides a visible solution to the water problem, creating awareness while it provides carbon free potable water from the ocean.



## SMS33320