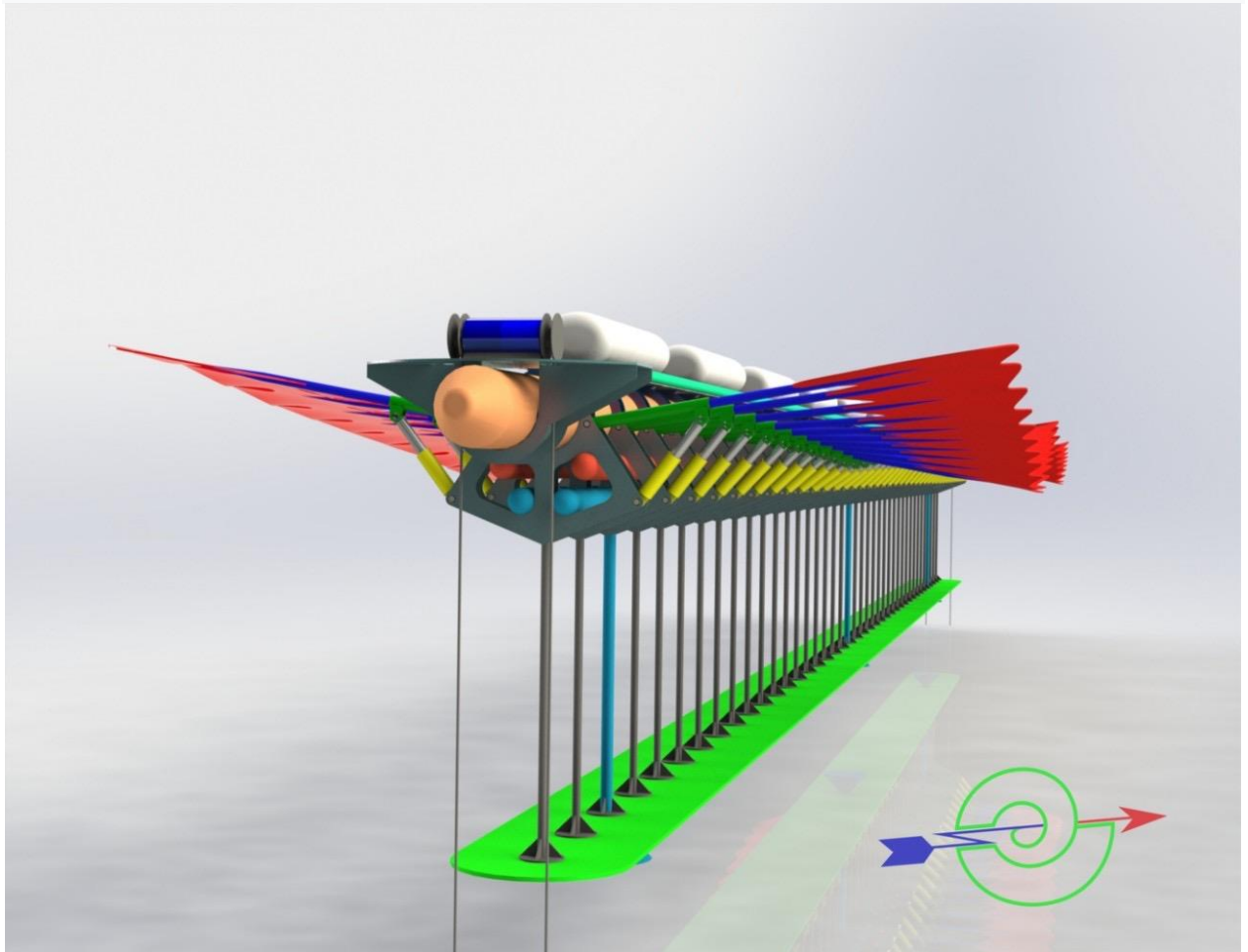


Ovsiankina wave desalination station

The wave desalination station is designed for desalination of sea water due to the renewable, environmentally clean energy of sea waves and currents in the open sea.



The efficiency of the wave station is ensured by its main properties such as:

- presence of a flexible energy-absorbing element, which changes its shape from a flat longitudinal body to a spatial spiral under influence of each incident wave;
- the design of the station is permeable to waves and has the ability to dive to a depth in the zone of action of calculated parameters waves;
- main structural elements of the station are made of composite polymer materials;
- presence of several desalination sections with holders of reverse osmosis membranes, connected to work consistently. it depends on wave situation in the water area.

The design of the wave station is protected by five patents of Ukraine, Russia. Today it is carried out patenting in other countries. The productivity of one module of the wave station for the oceans will be up to 1000 cubic meters per hour, for inland seas - up to 300 cubic meters per hour.

The specific investment per unit of installed capacity (m³ / h) of the desalination wave station will be 15,000 - 20,000 €.

The cost price of one cubic meter of fresh water will be 0.2-0.3 €.

