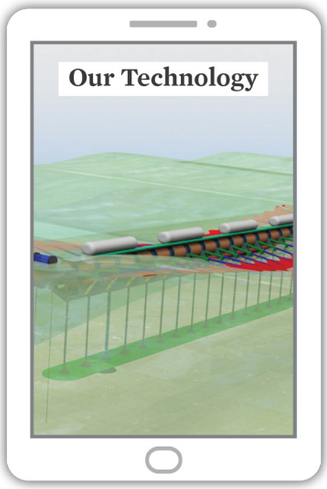
KROK-1 LTD
SCIENTIFIC AND PRODUCTION COMPANY

STRENGTHENING ENABLERS FOR WATER SECURITY

Wave Desalination Station Design



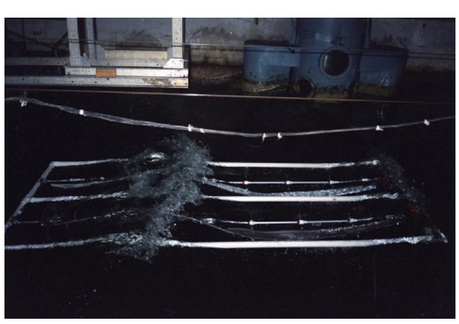
Wave desalination and power plants designed by Ovsyankin

The Wave desalination and power plants contribute significantly to the achievement of the Sustainable Development Goals. Currently, climate change is driving significant increases in water consumption in most countries. Existing desalination technologies require high energy consumption, up to 10 kilowatts (kW) per 1m^3 of water. The production of 1 kW of electricity from hydrocarbons leads to emissions of 0.5 kg of CO_2 into the atmosphere. Accordingly, up to 5 kg. CO_2 per 1m^3 of fresh water is produced.

Therefore, increasing the production of fresh water by the traditional desalination method significantly increases CO_2 emissions into the atmosphere. As a result, it accelerates negative climatic changes.

One wave desalination station (the capacity of which for the ocean water area is up to 1000 m^3 per hour of fresh water) will avoid CO_2 emissions in the amount of more than 30,000 tons per year.

Wave desalination and power plants operate on the basis of environment-friendly, renewable energy of sea waves and currents. Wave stations are an anchored floating vehicle capable of submerging under water to the required depth during storms, into the zone of action of waves of the design range and continuing to generate fresh water or electricity.



Pavilion

27 October, 11:00–11:30 a.m.
(GMT +8, Manila time)

Join the rapid solutions pitch session
(passcode: #eMarket2)

ADD TO CALENDAR

To know more about our Smart Water Technology

BROCHURE

- Wave desalination and power plants designed by Ovsyankin

VIDEOS

- Video 1
- Ovsiankin Wave Station
- Scientifik and Production Company "Krok-1" Commits to the CEO Water Mandate

For inquiry, contact:

Aleksey
Scientific and production company Krok-1

Email
krok-1@inbox.ru

Website
https://krok-1.com