

RENGTHENING ENABLERS FOR WATER SECURITY

Water Treatment, Desalination, and Solar Energy



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 CO₂ into the atmosphere. Accordingly, up to 5 kg. CO₂ 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 m³ 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

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

<u>Join the rapid solutions pitch session</u> (passcode: #eMarket2)

ADD TO CALENDAR

To know more about our Smart Water Technology

BROCHURES

- International Projects
- <u>Water Purification for Sea and</u>
 <u>Brackish Water</u>
- Moerk Water RO250SW Seawater
 Desalination
- Moerk Water RO1300SW Seawater
 Desalination
- <u>Water Purification of Sea Water for</u> <u>Coastal Communities</u>

VIDEO

 <u>Vanuatu Desalination Drinking</u> Water Project (Uripiv Story)

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