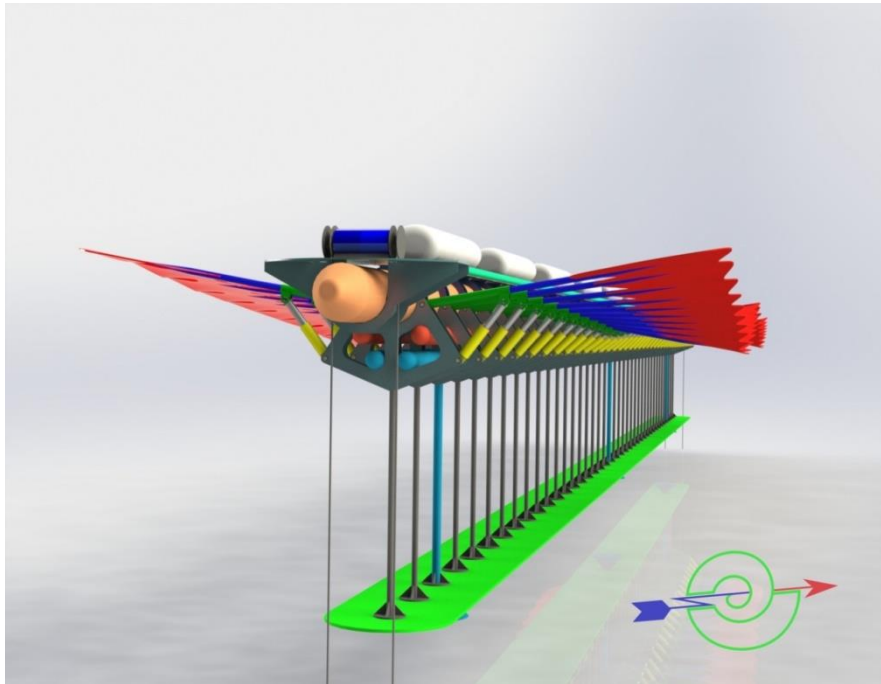




"Wave desalination and power plants designed by Ovsyankin"



Commercialization project summary:

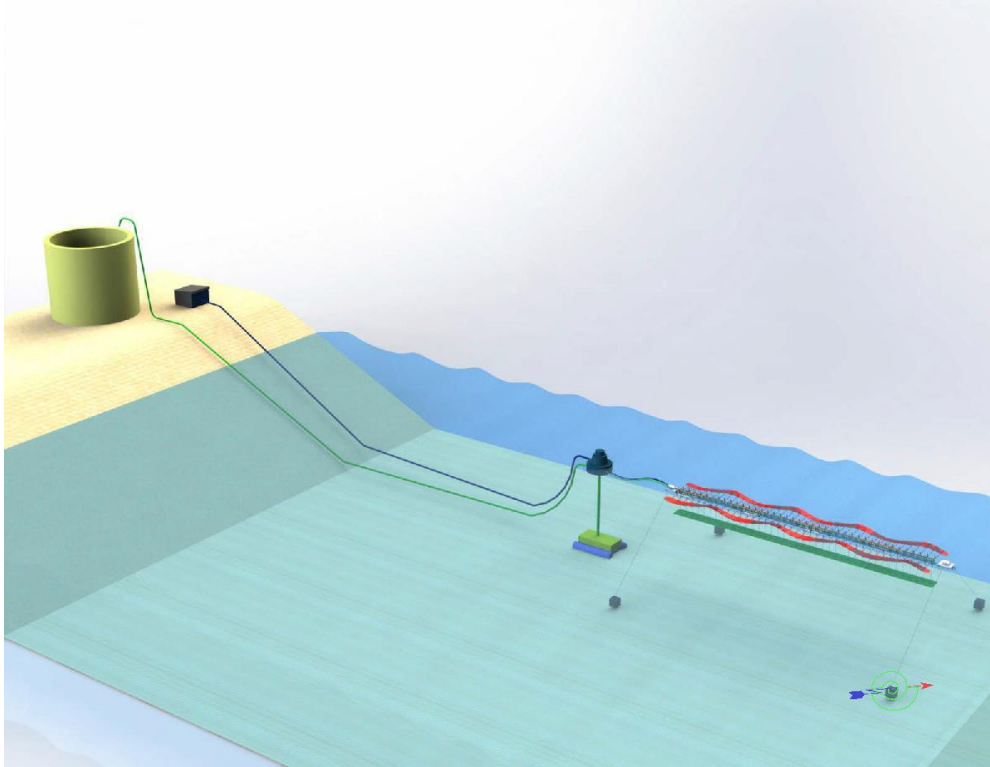
To implement our commitments to interact with the UN program to achieve the goals in the field of Sustainable Development by 2030, we are commercializing the technology "Wave desalination and power plants of the Ovsyankin design"

Promoting sustainable development goals Ovsyankin's Marine Wave Stations will make a significant contribution to achieving the Sustainable Development Goals under global climate change.

Climate change is driving significant increases in water consumption in most countries of the world, according to recent United Nations reports. (The growing shortage of water resources can only be compensated for by industrial desalination of seawater.

The existing desalination technologies require high energy consumption, up to 10 kW per 1m³ of water. The production of one kilowatt of electricity from hydrocarbons leads to emissions of 0.5 kg of CO₂ into the atmosphere and, accordingly, up to 5 kg. CO₂ per 1m³ of fresh water produced. Therefore, increasing the production of fresh water by the traditional desalination

method significantly increases CO₂ emissions into the atmosphere and, as a result, accelerates negative climatic changes!

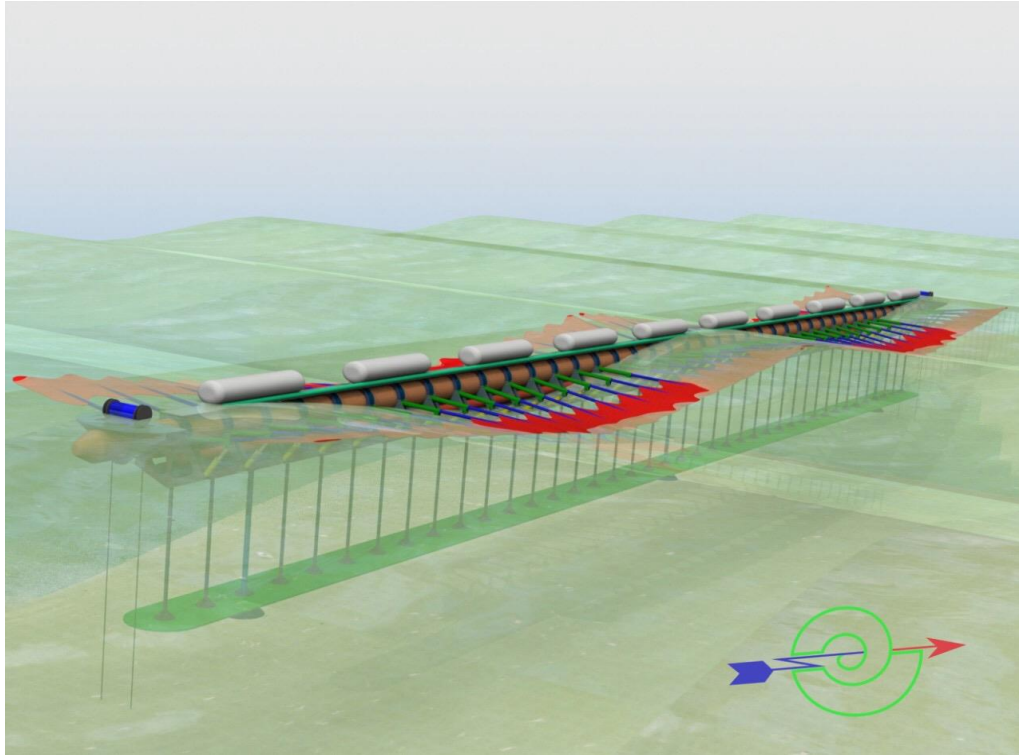


One wave desalination station designed by Ovsyankin, the capacity of which for the ocean water area is up to 1000 m³ per hour of fresh water, will avoid CO₂ emissions in the amount of more than 30,000 tons per year.

Wave desalination and power plants designed by Ovsyankin operate on the basis of environmentally 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.

Concept

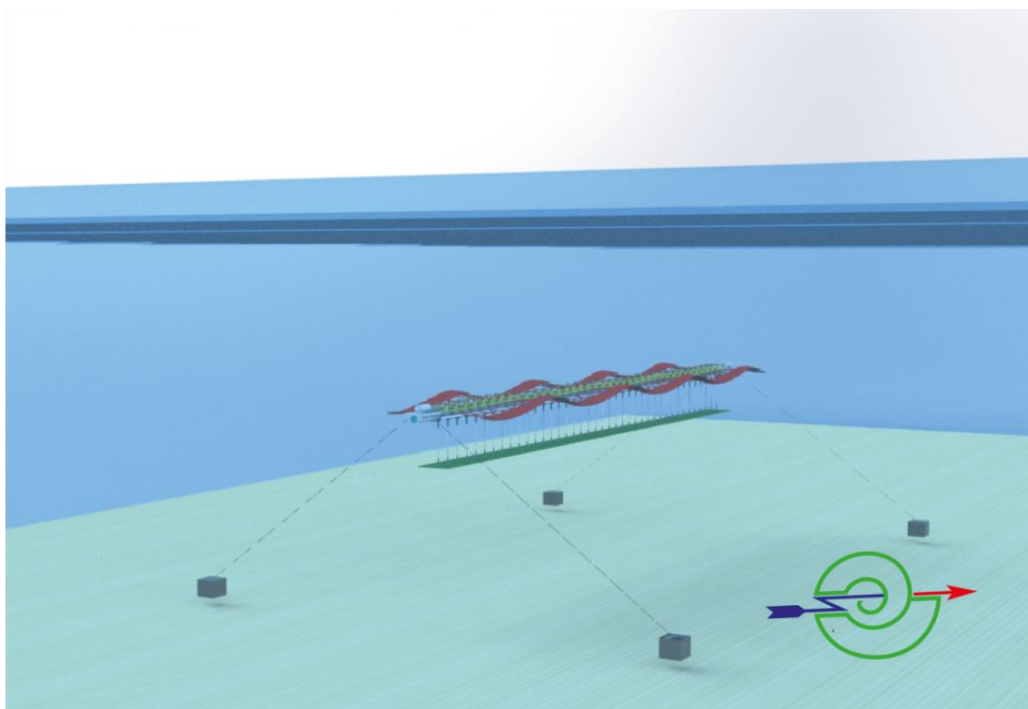
The project is based on the use of patented innovative technical solutions transforming the environmentally friendly, renewable energy of sea waves and currents to produce fresh water and electricity.



The efficiency of a wave station is ensured by its basic properties, such as:

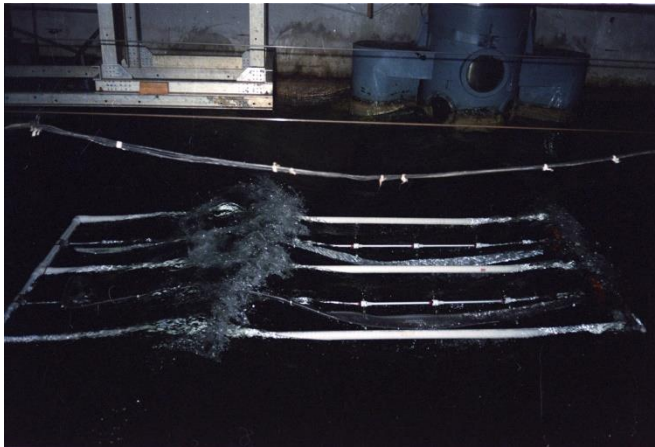
- the presence of a flexible self-adapting energy-absorbing element, which changes its shape under the influence of each incident wave, from a flat longitudinal body to a spatial spiral;

- the design of the station is permeable to waves and has the ability to dive to a depth, into the zone of action of waves of the calculated parameters;



- the main structural elements of the station are made of composite polymer materials;
- availability of a hydraulic system that supplies seawater under pressure to the desalination sections or to the hydro turbine;
- the wave station is an anchored floating vehicle;
- It can be adapted to any water area of the seas and oceans and is an anchored floating vehicle

The station models have passed multiple tests in the wave basin of the Institute of Hydromechanics of the National Academy of Sciences of Ukraine and a pilot sample of the Wave station in natural conditions in the Black Sea.



https://www.youtube.com/watch?v=fV0632i4_pM&feature=youtu.be

Patents: Ukraine, USA, EU, Russia, Canada and Australia.

<https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2009023000&fid=EP11018411>

A wave station can generate:

- for oceans up to 1000 m³h of fresh water per hour and up to 5 MW h of electricity;
- for inland seas, up to 300 m³h of fresh water per hour and up to 1 MW h per hour of electricity;
- The specific investment per unit of installed capacity (1 - m³ h) of the desalination wave station will be 15,000 - 20,000 ;
- Specific capital investments per unit of installed capacity (1 - m³ h) of a desalination wave station will amount to 15,000 - 20,000 euros, for electricity of 1 kWh - 2,500 - 3,500 euros;
- The prime cost of one cubic meter (1-m³) of fresh water is 0.2-0.3 €, of electricity 1 kWh – 0,03-0,04 €;

The average annual rate of utilization of the installed capacity is 0.6 - 0.8 (60% - 80%);

The return on investment directly depends on the tariffs for the generated resource (fresh water, electricity).

The construction of wave stations designed by Ovsyankin will significantly increase water security in many countries and regions of the world, the standard of living of the population and create favorable conditions for the development of agriculture in dryads.

Details of the strategy program for the commercialization of the project "Wave desalination and power plants of the construction of Ovsyankin"

-Formation of a consortium of project participants.

- Expert testing of the wave station layout 1:10 in the wave pool of the research center.

In parallel, the creation and development of IP to monetize the value of intangible assets.

- The construction and testing of a full-scale pilot sample of the Wave Station on the Ocean Platform will allow the formation of a package of applications for the construction of Wave stations.

- Building a strategy to implement the project to achieve water security in needy regions through collaboration with UN structures and other international and governmental organizations.



The CEO Water Mandate

12 February 2020

Oleksii Ovsyankin
KROK-1

Dear Oleksii Ovsyankin,

With this letter we wish to thank you and to applaud your vision and leadership in endorsing the UN Global Compact CEO Water Mandate.

You are among a select group of business leaders who recognize the ever-growing importance of sound water management and water stewardship. Indeed, the growing crisis in both water and sanitation in many parts of the world poses a range of risks—and, in some instances, opportunities—for companies in virtually all industries.

The CEO Water Mandate is designed to assist companies in the development, implementation, and disclosure of comprehensive water strategies and policies. It also provides a platform for companies to partner with like-minded businesses, UN agencies, public authorities, civil society organizations, and other key stakeholders.

We wish to draw your attention to three important engagement aspects and opportunities related to the CEO Water Mandate:

1) **Annual Working Conference.** The CEO Water Mandate convenes a global high-value working conference each year focused on a special aspect of water stewardship. We hope your company will actively participate in this important forum, through attendance by the relevant operational and/or sustainability officers.

2) **Communication on Progress.** All endorsers of the CEO Water Mandate are required to develop annual "Communications on Progress - Water" related to the implementation of the CEO Water Mandate's elements. We hope your company will familiarize itself as soon as possible with this requirement, which is fully described in the "Transparency Policy" of the CEO Water Mandate. (See: http://ceowatermandate.org/files/Transparency_Policy.pdf)

Completed "CEO Water Mandate Communications on Progress" are to be sent each year to: stevenmorrison@unwatermandate.org

3) **Partnering with Stakeholders.** One of the functions of the CEO Water Mandate is to facilitate collaboration between endorsers and relevant stakeholders in the areas of water and sanitation. We hope you will explore such collaboration opportunities. In particular, we would

like to draw your attention to the Mandate's Water Action Hub, an on-line platform to advance water and sanitation projects at the local level. (See: www.wateractionhub.org)

If you have not already done so, we would appreciate if your office could complete—as soon as possible—the [short 7-minute onboarding survey](http://survey.17.com/steve/ceowatermandate) which will help us understand how best to assist your water stewardship efforts.

In addition, endorsers are strongly encouraged to set up a call with the Mandate Secretariat to learn about the initiative's current focus areas, upcoming activities and events. To learn more about the Mandate's on-going activities and to schedule a call, please contact Mr. Peter Schulte at: pschulte@ceowater.org

In learning about the Mandate's activities, we also hope that you will consider joining the [Water Security Through Stewardship Action Platform](http://www.ceowatermandate.org). The Action Platform is where all of the Mandate's programmatic work and working groups are housed. It is the core mechanism through which companies, UN entities, government, NGOs, and other stakeholders work together to: 1) test, refine, and scale cutting-edge water stewardship practices and 2) foster local partnerships, collective actions, and policy engagement.

Thank you again for endorsing the CEO Water Mandate. We are confident that you will generate significant value from this initiative.

Sincerely,

Lila Karbassi
Chief of Programmes
UN Global Compact

Jason Morrison
Head
CEO Water Mandate

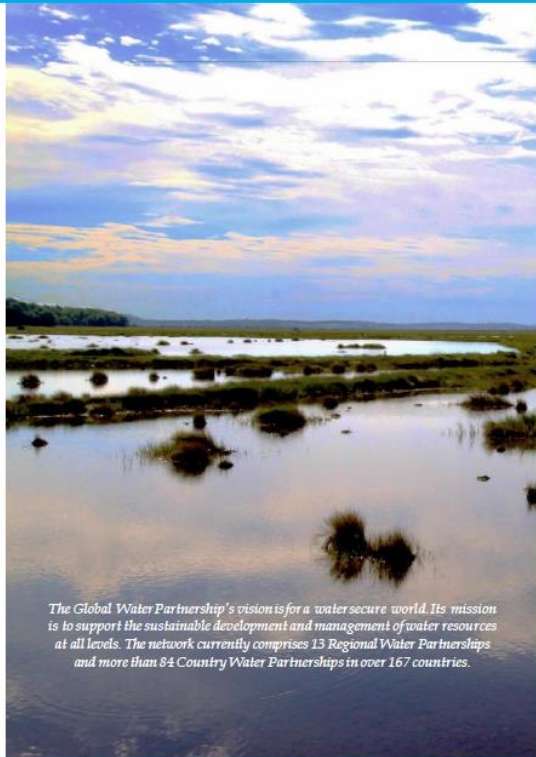
<https://ceowatermandate.org/posts/krok-1-commits-ceo-water-mandate/>



This is to certify that
Krok-1
has become a Partner of
the Global Water Partnership

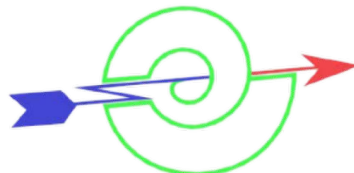
Date
2020-06-29

Peter Repinski, Interim Executive Secretary & CEO
Global Water Partnership




The Global Water Partnership's vision is for a water secure world. Its mission is to support the sustainable development and management of water resources at all levels. The network currently comprises 13 Regional Water Partnerships and more than 84 Country Water Partnerships in over 167 countries.

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World Ocean Summit Virtual Week



Information
Peter Thomson, the United Nations special envoy to the ocean will outline the progress made thus far to achieving SDG 14. Peter Thomson will take questions from the audience on a full range of topics : pollution, fisheries, subsidies, marine protected areas, coastal ecosystems, acidification, rising sea levels, blue finance, ocean science, governance, and the sustainable blue economy.

Speakers
Peter Thomson
Special Envoy for the Ocean
UN
Martin Koehring
Head, World Ocean Initiative
The Economist Group


Plenary address progress
Hello, dear colleges - Adapting to severe climate change requires the most efficient use of time and resources to implement new progressive technologies based on clean, renewable energy! Water security and CO2 emissions are the most acute on the list of Climate Problems. Coordination is needed for the operational commercialization of promising technologies such as the Ovsyankin Wave Station. She not only can sustainably provide fresh water to countries and regions in need, but also significantly contribute to the reduction of CO2 emissions. Gentlemen, it's up to you!!!
<https://drive.google.com/file/d/1puar23NMjpPuknDNfyNcSNi3ADY/view?usp=sharing> Scientific and Production Company «Krok-1». Ovsyankin – Ovsyankin wave station. KROK-1 is specialized in performing all kind of investigation in relation with high technology. (krok-1.com)

Session reminder 3 hours ago
The session will start soon, go grab a seat!

Plenary - Keynote address by HSH Prince Albert II of Monaco
Wed, Mar 3, 2021 4:10 PM

LIVE DISCUSSION

World Ocean Summit Virtual Week



My profile **My contacts** **Settings**

Aleksey Ovsyankin
"WAVE DESALINATION AND ELECTRIC PLANT OF OVSYANKIN DESIGN" scientific production company "Krok-1"

About me
"WAVE DESALINATION AND ELECTRIC PLANT OF OVSYANKIN DESIGN"
Offshore Wave Stations designed by Ovsyankin to improve Climate resilience countries and regions. Desalination of sea water and production of electricity environmentally friendly renewable energy of sea waves, excluding emission into the atmosphere
[See more](#)

Social media
[in](#) [f](#)

John Vermilye
Chairman
Gallifrey Foundation

Session reminder 34 minutes ago
The session will start soon, go grab a seat!

Plenary - LIVE Q&A and special address: The state of the ocean and progress towards achieving SDG 14
LIVE 8 minutes left

Thanks for your feedback! 37 minutes ago
Share your feedback with the organizer about Plenary panel - Climate and nature: Blue carbon - achieving scale.

★★★★★
Promoting sustainable development Ovsyankin's Marine Wave Stations will make a significant contribution to achieving the Sustainable Development Goals for Global Climate Change. Climate change is driving a significant increase in water consumption in most of the world, according to recent United Nations reports. (<https://www.un.org/en/sections/issues-depth/water/index.html>). The increasing shortage of water resources can only be compensated by desalination of seawater in industrial volumes. Existing desalination technologies require large energy costs, up to 10 kW per 1m3 of water. The production of one kilowatt of electricity



The Economist Group's 8th Annual
WORLD OCEAN Summit Virtual Week

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