

Saving Environment and Water innovative project

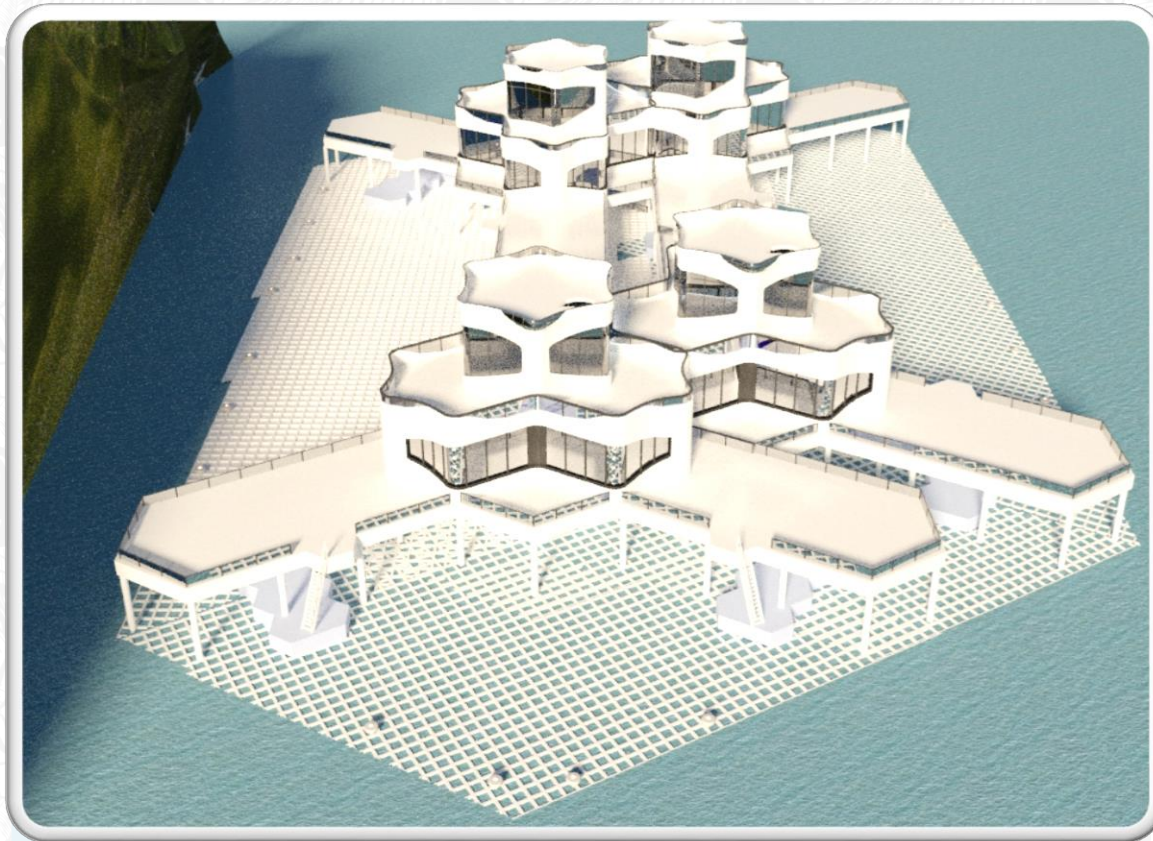


Presented by

ALBADRAAN INVESTMENT LLC



Unique eco-friendly technologies for desalination of water of any degree of contamination



OUR ADVANTEGES

The proposed complex makes it possible to solve the problems of water purification of any degree of pollution at a new qualitative level and with low costs, including

- oil products
- heavy metals
- liquid industrial waste
- saline water media of various degrees of pollution

Without the use of consumables during operation.

OUR ADVANTEGES

The technology allows you to remove all types of contaminants without any reagents

There are no filters, sorbents, ion exchange resins in the proposed installation, the use of chemicals is excluded

- ❖ Energy costs are significantly less than for known installations of a similar purpose.
- ❖ Complete environmental safety is ensured, the release of salts in the form of solid sediment is possible.
- ❖ **Installation with high productivity (50 m³ / hour)**, has small dimensions and is placed in a standard container.
- ❖ It does not require large time and capital costs for the construction of the complex.

Technology Description

The physical processes on the basis of which the complex operates create special hydrodynamic regimes in seawater in combination with the influence of electromagnetic fields, as well as chemical and thermal conditions that contribute to the evaporation of water many times more than in any other installations designed for water purification and desalination.

For the first time in world practice, purification and desalination of water from particles and soluble substances is carried out only due to hydrodynamic effects when exposed to water by sources of mechanical vibrations.

Modern methods of water purification and desalination do not do without filtration or thermal distillation (for example, evaporation followed by steam condensation). All known methods are associated with large capital costs for construction and energy costs, consumables and related environmental problems.



A distinctive feature of the proposed technology, in relation to well-known world analogues

is that the purification and desalination of seawater are carried out only through physical processes carried out directly in the treated water.



Technology Description

In the technological scheme of this seawater purification and desalination plant, for the first time in world practice, a combination of special hydro wave and heat exchange processes in purified (seawater) water is implemented which create vaporization of special intensity with subsequent condensation.

At the same time, the effect of a combination of electromagnetic and hydrodynamic waves actively releases the crystalline salt from the solution.

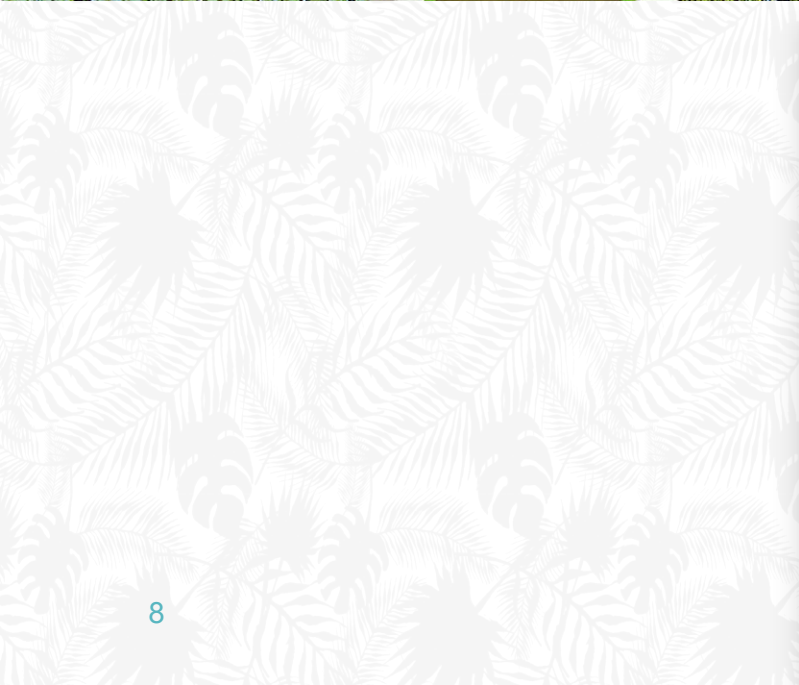
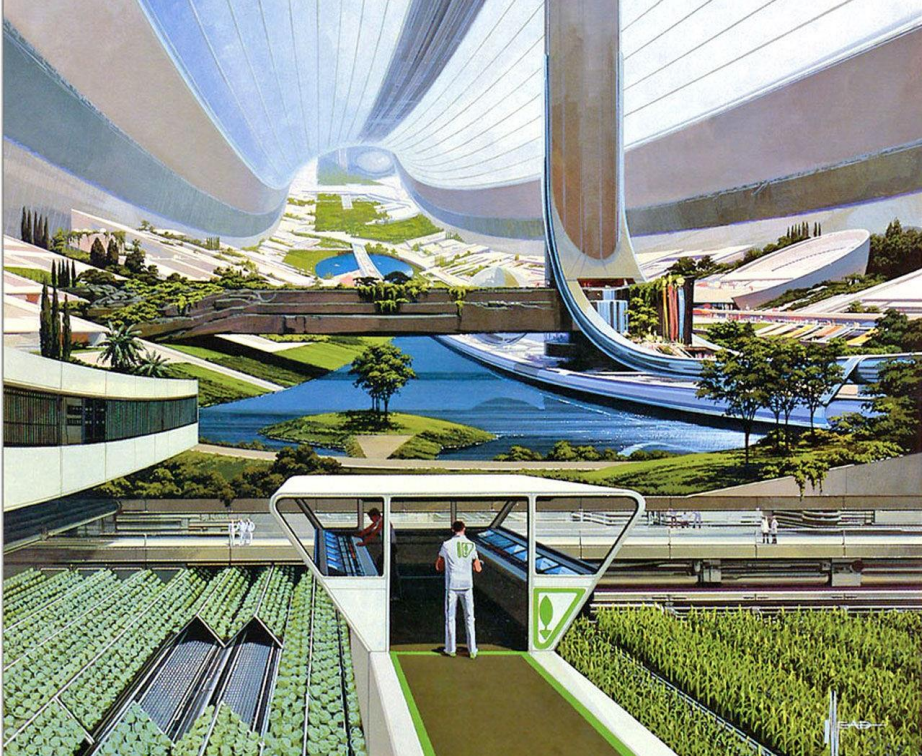


Watering



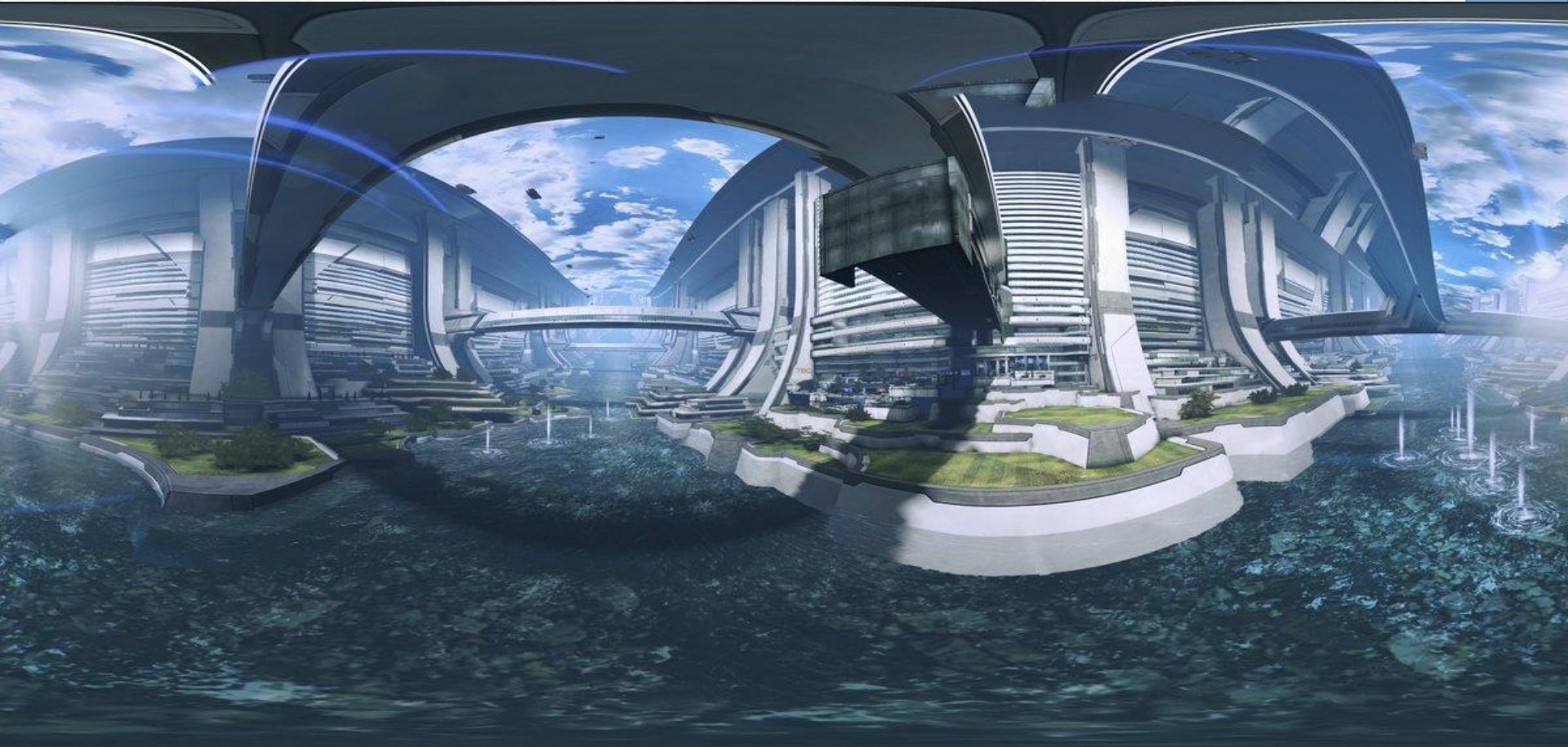
Protecting





Technology Description

The proposed complex based on the hydrowave method technology significantly exceeds in all characteristics conventional installations operating by the standard thermal method (distillation, distillation, evaporation). The features and effectiveness of the complex positions it as a separate desalination and purification technology that has no analogues among existing installations.



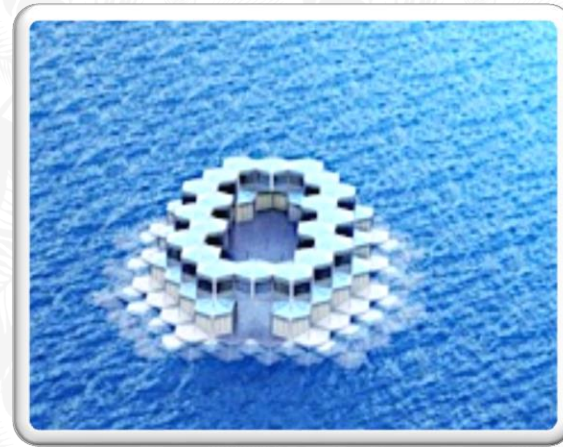
Terms of investment and cooperation.

- The volume of investments is \$3 million. The development period is 1-1.5 years, intermediate results of work are demonstrated every 2-3 months.
- Investments are required for the production of several types of samples, their integration into a single energy generating system, its configuration, optimization and preparation of the entire complex for mass production. This requires laboratories, experimental sites, a large number of various parts and components.
- As a result of this work, a set of prototypes ready for mass production will be obtained, linked into a single system with all the necessary documentation, certification and technological maps.





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