WaterGenX

UNITED NATIONS GLOBAL MARKETPLACE

World Health Organization

Authorized Sellers

Economically Purifying Virtually Any Type of Water:

I. We provide the best solution for the World's most common problem … clean healthy drinking water. Other systems try to take contaminates from the water, we take the water from the contaminates. This is much quicker, more energy efficient, and more effective:

- Nearly one billion people, one in eight (1/8) have no access to clean water.
- Most "clean" water is not free of "forever chemicals" (polyfluoroalkyl substances PFAS and nano-plastics.). Much water has harmful bacteria and other chemicals.
- More than 4.2 million people die each year from water-related disease, 84% are children.
- The United Nations states: ***The lack of clean drinking water is the greatest cause of childhood deaths worldwide.***
- There are many different water purification systems, but none as effective or economical WaterGenX. Our high-flow system has 7 stages and 2 unique new technologies that are not a compromise between cost and purity. *A "Comparison" graph is provided.*
- Our Water Purification System:
  - Is High-flow and with the larger unit producing up to 20 million gallons (75.6 million liters) of drinkable (potable) water per day.
  - Our most versatile system is a 40 foot coated container providing 2 million gallons (7.5 million liters) per day.
  - Sea water system removes and uses brine water (which is toxic to environment).
  - The equipment below is delivered in a coated Container unit installed on any surface.
  - We maintain the system with multiple remote sensors and with no down-time for maintenance or filter removal. This is unique in the industry, many systems operate for limited periods of time.
  - Our systems have very long lifespan of over 10 -20 years or more, and after extended use, replacement motors, pumps and sensors are easily installed.
  - The installation is very short (less than 25% of the time for Reverse Osmosis or others and these systems do not accomplish what WaterGenX accomplishes).
  - Environmentally friendly, with no chemicals or microbes used in the process.
  - Able to purify <u>extremely</u> contaminated water from waste, salt or industrial wastes and avoid fines or over-stressing biological systems that cost much more.
  - Environmentally safe with no release into the air.
    - California and the US Government have purchased this equipment, above all other submittals due to its unique cleaning system at high-flow.
    - Very little energy is used to run, two 1 hp electric motors for container units, so the unit can use solar energy for places where electrical service is unattractive.
    - We oversee all operations and less operational maintenance is unique.

- We use two unique systems developed internally, which are not available to any other company.
- Built in a steel shipping container with our highly impervious external coating insures against rust for safety and easy location with skids as needed.
- For desalination plants, the system can use the byproducts to provide electricity and polymer building materials unique to industry.
- Very low cost per gallon/liter, and each unit can be subsidized by the UN if the site qualifies as a disadvantaged location for the people being served.
- United Nations has provided the verification of value and performance by issuance of Global Market.

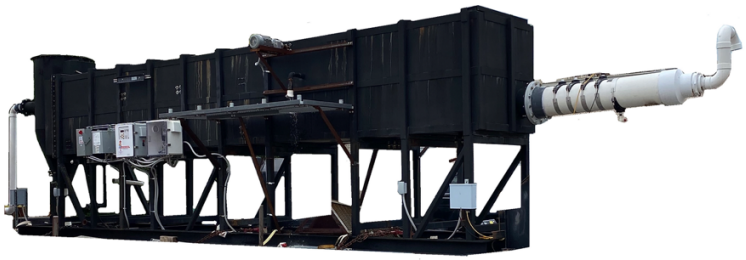
II. People Who Need Water

Every country has many different sources of water, all of which can be turned into drinking water:

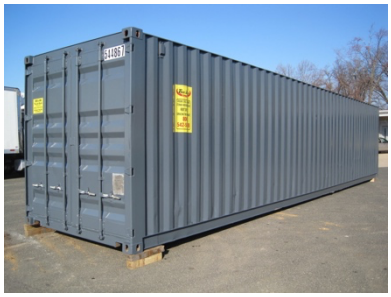
- Some water is available from rivers, lakes, and dams. This is the easiest water to clean.
- Most water has nan-plastics or “forever chemicals” which harm health and this system removes these hydrocarbons and chemicals, as well as bacteria and viruses.
- Some well water has salts, which is a good source of water and, which has an added benefit of being able to produce energy and building materials as a by-products.
- Some water is from the sea which is similarly treated and also provides useful by-products and ancillary energy generation.
- Some water is from sewage, a pre-treating process is needed to remove solids.
- Some water is from oil and gas drilling which is converted to drinking water.
- Some water is from industrial waste which is tested and optimized for that type of water contamination.
- Some water is from fish-farming, and built-up toxins, nitrates and sludge are removed.
- Some water has nuclear waste isotopes which are removed and recovered as needed.
- There is basically no type of water that cannot be converted into drinking water with our combination Clean Water System.

III. Our Standard Production Unit Can Be Operated Anywhere.

WaterGenX truly leads the world into a new era of clean affordable water that is environmentally friendly, chemically free and requires little energy. There is almost no location which is not suitable for the Clean Water system pictured below (without container).



(inside container)



This picture of the basic unit is delivered inside a 40 foot coated container. Added to this basic unit can be energy production and seawater material retrieval systems.

It is built long-life rugged and utilitarian. WaterGenX maintains it with remote sensors and standardized parts leading to reliability and ease of maintenance. It is ergonomically designed to be easy to supported by our locally trained personnel.

There is no competition to the WaterGenX "Kleen Water" system as the cleaning and collection system is uniquely effective using our new technologies and remote monitoring. Our anti-microbial processing is effective at the high-flow levels we provide. Removing "forever chemicals" and nano-plastic particles at high speed is also unique to WaterGenX. There is no reason to compromise on the healthiness of drinking water with WaterGenX.

IV. Comparison of WaterGenX and Other Systems.

Comparison of Features	**WaterGenX water**	**Reverse Osmosis**
Complexity of System	Simple and easily installed	Complicated to install and operate
Installation and Start Up	25% of time for ther installations	Long lead, most take years
Types of Water	All types of water	Contamination Limited
Run Times and Down times	Continuously Run	Requires significant down time
Oil and Gas	Converts to Drinking Water	Cannot be used on frac water
Environmental Impact	No release to air, sea or land	Gases & hazardous brine release
Useful By-products	Nets materials & more (see below)	Nets toxic brines and nanoplastics
Total Energy	Small motors, solar driven possible	Large electrical power & gas used
Modification of Needs	Scalable and Portable	Fixed Location not easily scalable
Maintenance	Low Maintenance while operating	System stops for cleaning & others
Operation History	Continually operating 99% of time	Down time may be 50-60% of time
Operating Cost	Simple and lowest cost system	High cost and high maintenance
Installation Cost	Low cost leader	High initial and upkeep costs

V. The Products are not just Clean Water, but also the Solids Taken Out.

Elements Treated By WaterGenX	**Input** in ppm (mg/L)	**Output** ppm (mg/L)	EPA and WHO Clean Standards
Chloride	14.8	< 0.5	4
BOD - Biological Oxygen Demand	137.0	< 0.2	2
COD - Chemical Oxygen Demand	25.0	< 20	150
Total Dissolved Solids	1160.0	< 5	300
Total Suspended Solids	430.0	< 4	500
Calcium	193.0	< 0.2	60
Magnesium	167.0	< 0.4	30
Silica	108.0	< 1.0	25
pH (acidity)	7.31		6.5 to 8.5

These tests show that the clean water is **much better** than the WHO water standards, and that the test samples were highly contaminated. Mixed all types of water, and cleaned it at one time.

The following is what was included in the 2,500 gal (9,500 liters) of water cleaned above:

100 lb of Silica Sand  **10 lb soil dirt**  **60lb of Limestone / Granite** 

5 gal (56 liters) of used motor oil  **80 gal (19 liters) of Diesel fuel** 

5 gal (56 liters of gasoline 

80 lb of Pig manure  **80 lb of Cow manure** 

This was in <u>just 2,500 gal (9,500 liters)</u> of highly contaminated water.

Capture of by-products is a significant advantage which is environmentally friendly and economically beneficial. Minerals, precious metals, and even manure to be used for fertilizer. All types of hydrocarbons are captured for multiple uses. Salts are coated and used for building materials with high R values and extended life.

VI. Funding the Water Installation and Operation of the Clean Water System.

Our lower initial costs and allows for more people to be served. Our lower operating costs save money for other needed humanitarian projects. For critical financial needs of underdeveloped and high risk populations that cannot be funded in other ways, there may be a special funding by the World Bank.

In all events our Clean Water system is so economical that many systems can be instituted and due to the costs-benefits the systems even appropriate for donation NGO programs.

VII. The Costs of Medical Care and the Shortage of Healthcare Workers are Reduced by Clean Water.

An indirect cost of polluted water is the cost of healthcare including all the healthcare workers. These people will also be less ill and can be used for other types of healthcare. By cleaning the water, the cost of the equipment is recovered in less than one year, just from the savings of treating people, especially children.

Toxins, heavy metals, acids, sulfides, hydrogen sulfide, bacteria, virus, and molds are all present in pre-treated water, and we will remove these, and other contaminants. **For example just**

treating water in one area of a developed country, according to their projections, will save $22 Billion in healthcare costs.

VIII. Ongoing Operation Monitoring and 24 Hour Water Testing are Provided by WaterGenX.

Automated and remote control – remote testing is constantly in operation to assure that no water that exceeds drinking water standards will be released into the system.

Where water is most needed, it is common to have a shortage of trained personnel to operate and maintain some types of equipment. This is not a problem for our system. Training is not difficult, and at first we will supply the personnel to make sure that clean water is actually delivered as promised. (Note: **Most systems take samples only 2 times a day, but the WaterGenX Water System continuously monitors water so that sub-standard water is never mixed with fresh.**

IX. The Units are Customized for Optimal Cleaning.

Because there are so many different contaminants associated with different waters or sewage, our company receives applicable water analysis to make sure we customize any special needs. With this information the specific cleaning programs are built into the unit. After the analysis, the potential "good output" is identified and recovery of minerals, precious metals and other usable solids are designed into the system. If the output does not have any value, then the solids processed as waste. However, this does not happen usually happen.

X. The Units are Available in Different Sizes.

Because there are so many different needs, the basic units come in sizes from .5 million gallons (1.9 million liters) per day, to 20 million gallons (75 million liters) per day or more. The standard 20 million gallon unit equates to 7.3 billion gallons a year (27.6 billion liters a year).

XI. Water Efficiency Strategies and Next Steps.

In water-restricted areas, and arid countries, there is only so much water available from the ground, and what is recovered from brine or a seawater unit is precious. As part of the installation and analysis of the water, we will provide a Water Efficiency Strategy for that unit's area and high efficiency pumps. This includes ways to recover water and to avoid needless loss.

Areas where the water table or other source has been depleted more than it receives refilling, there are more pollutions and contaminates in the water making our Clean Water unit even more necessary. We provide long-range planning of water needs and saving water-related diseases and illness.

The next step is to provide a sample or analysis of the water source, and water needs, and we will help prepare the proposal for the type and size of unit installations.

Please Join us to provide Safe, Inexpensive, Drinking Water and Save the Health of Millions of People!

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