



HydroRevolutionSM

**Creating a new source of sustainable
water for California.**



The world's most sustainable desalination plant is being built in the heart of California's Central Valley to provide a local source of freshwater and to restore impaired agricultural land.

Welcome to the future of freshwater. HydroRevolutionSM is a solar desalination plant that is using renewable energy to generate freshwater from a nearly limitless supply of saltwater, without the harmful environmental effects and high energy demands of traditional seawater desalination.

The unique solar thermal distillation method employed by the company's Aqua4TM technology generates freshwater at a lower operating cost than reverse osmosis desalination facilities and has the ability to treat a wide array of water sources.

However, the project's benefits extend beyond a lower energy and cost footprint. HydroRevolution will recycle impaired agricultural water from irrigation drainage, thereby cleaning up large tracts of salt damaged cropland as it generates a much-needed supply of supplemental freshwater.

Freshwater and Repaired Land

California's Central Valley, one of the most productive agricultural areas in the country, is also among the state's most at risk landscapes. Not only is the area parched from the fourth consecutive year of drought, the land and river systems are also becoming damaged by concentrated salt accumulation. The naturally occurring minerals in this fertile soil combined with prolonged irrigation have created a toxic salinity problem for many ecosystems that does not yet have a sustainable solution.

The agriculture industry faces the threat of losing land due to the inefficient means available today of managing rising salinity concentrations. Furthermore the recent 0% water allocation for agriculture and tighter water use restrictions are leaving some farmers with no water for their crops.



1.3 million

The number of acres of salt-impaired land in all of California's Central Valley

15.8 million

The number of acres of cropland in California



The Solution: Solar Thermal Distillation

The Aqua4™ solar distillation system used by HydroRevolutionSM is capable of treating any source of impaired water with greater than 90% freshwater recovery rate (compared to 50% for traditional seawater desalination) and the potential to achieve zero liquid waste.

The distillation method employed by Aqua4™ is ideal for irrigation drainage water since the minerals particular to this type of soil can scale up membranes used by reverse osmosis desalination plants. Aqua4™ also operates using renewable energy which eliminates the need to be co-located with a large energy supplier- such as a fossil fuel based power plant- and drastically reduces the carbon footprint often associated with desalination projects.

The Aqua4™ system operates by collecting solar thermal energy which powers the distillation process, evaporating freshwater from any briny source and leaving the heavier salts and minerals behind. A heat pump unique to this system stores excess heat from one treatment cycle to be reused later in the process thereby cutting energy consumption and increasing the overall efficiency.

The plant's zero-liquid discharge capabilities will also allow the excess salts and minerals to be collected and turned into useable co-products that can be sold to generate additional revenue.

The Aqua4™ System

Component	Application
Solar Thermal Collector	Maximizes solar energy used to generate heat for system.
Heat Transfer System	Mineral oil carries the solar heat to an absorption heat pump that optimizes the efficiency and heat utilization.
Multi-effect Distillation System (MED)	Evaporates freshwater from the source water being treated; can treat impaired water sources with up to 100,000 ppm TDS (total dissolved solids).
Solar Thermal Storage	Captures excess heat for operation during times when there is no available solar energy, allowing the system to operate consistently 24/7.





About Us

HydroRevolution is a subsidiary of WaterFX™, founded in 2012 by Aaron Mandell and Dr. Matthew Stuber. The company's first project was a demonstration plant operated for six months in the Panoche Water and Drainage District. The demonstration plant proved the viability of treating drainage water through distillation using solar as its main energy source.

Executive Bios

Aaron Mandell: Founder and the Chairman of the Board of Directors at WaterFX and a Member of the Board of Directors at HydroRevolution. Aaron is an engineer and entrepreneur who has co-founded a number of companies in the water sector including: WaterFX, Oasys, Altarock, Coskata, and GreatPoint.

Dr. Matthew Stuber: Head of WaterFX process systems engineering efforts, including the Aqua4™, Chief Technical Advisor for HydroRevolution. Matthew has a PhD in chemical engineering from the Massachusetts Institute of Technology (MIT) with expertise in process systems engineering emphasizing robust design and operations.



Aaron Mandell



Dr. Matthew Stuber

HydroRevolution

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Investment Opportunity

WaterFX is currently financing the construction of the HydroRevolutionSM plant through a California public offering. The fundraising campaign, also known as a Direct Public Offering (DPO), will be open to California residents. The proposed plant will be built on 75 acres of land in the Panoche Water and Drainage District and treat water from a 7,000-acre drainage area. All of the freshwater HydroRevolution generates will be provided to the Panoche Water District.

The company is offering up to 2,000,000 shares of Series A Preferred Stock at the price of \$5 per share. See below for a summary of eligibility requirements and investment tiers.

Investment Requirements & Tiers Summary

- i. Open to California residents only.
- ii. Unaccredited Investors: minimum investment of \$2,000, or 400 shares, with a maximum investment of \$2,500.
- iii. Accredited investors: minimum investment of \$5,000 or 1,000 shares.
- iv. All stockholders will be entitled to receive cumulative dividends at a rate of 6% per year.

To learn more about investing in HydroRevolution please visit:
waterfx.co/hydrorevolution/invest

DISCLAIMER: These securities are offered only to California residents who meet certain suitability standards and other requirements pursuant to the Department of Business Oversight permit #3499. THE COMMISSIONER OF THE DEPARTMENT OF BUSINESS OVERSIGHT OF THE STATE OF CALIFORNIA DOES NOT RECOMMEND OR ENDORSE THE PURCHASE OF THESE SECURITIES.

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