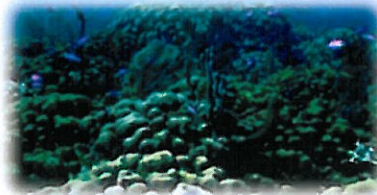
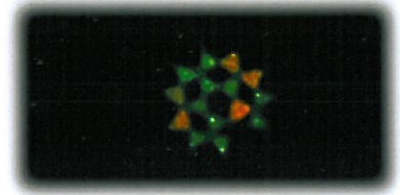




**THE PROBLEM ...
WATER POLLUTION**



**THE GOAL ...
CLEAN WATER &
RESOURCE RECOVERY**



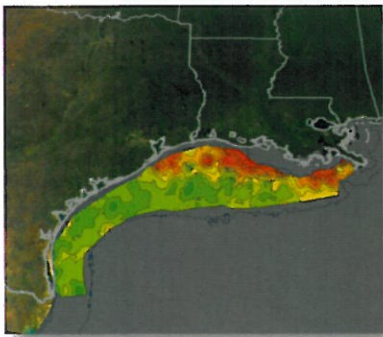
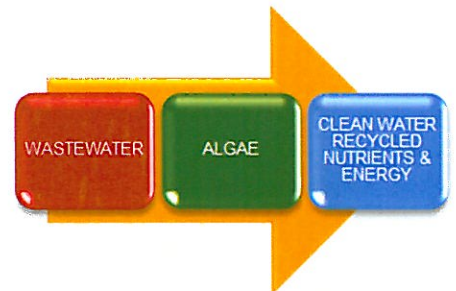
**THE SOLUTION ...
ALGAE**

Our Mission

Water is at the intersection of every global challenge we face: climate change, energy, health, and poverty. This precious resource is being threatened by pollution, over consumption, and misuse today more than at any time in our past. The tools we have been using to combat this water crisis are antiquated, expensive, and ill-equipped to meet the demands of a growing population and the industries that support it. We will change the way our cities and industries treat wastewater while also providing the ability to recover and recycle the valuable resources it contains. We will be the preferred technology provider for advanced wastewater treatment while providing chemical feedstocks for a wide variety of purposes.

What we do

We remove nutrient pollutants such as biochemical oxygen demand (BOD), nitrogen and phosphorus, from high strength municipal and industrial wastewater, while producing algal biomass that can be used for products such as fertilizer, bioplastics, and biofuels. We design, build, sell and/or operate treatment systems, reducing the costs our customers incur to have their wastewater treated. We focus on producing clean water in the most environmentally sustainable and cost effective manner.



Why We Do It

Nutrient-laden water is leading to dead zones in places like the Gulf of Mexico and the Chesapeake Bay. Beyond the environmental damage and threat to public health, this pollution is estimated to cost the USA over \$4.3 billion dollars each year due to the impairment of fishing and recreation. Increasing federal and state regulations stipulating reduced effluent nitrogen and phosphorus concentrations are creating a need for new advanced wastewater treatment infrastructure.

Who We Are

We bring advanced expertise in algal biology and chemical engineering to the treatment of high strength wastewater. Our team includes the leading experts in the wastewater industry and academia. We were the winners of the inaugural DTE Clean Energy Prize.



Winner of the 2009 DTE
Clean Energy Prize

How We Do It

Algae are some of the fastest growing life forms on earth. Our proprietary algal strains were selected for their unique ability to remove nutrients from wastewater while growing at very high densities. Our HyperTrophic™ Water Treatment Process uses a single-step to remove soluble organics (BOD/ COD), nitrogen, and phosphorus from medium to high strength wastewaters.

We create a controlled algal bloom in compact growth troughs. We then separate the algae from the water, producing clean water to meet the regulatory requirements of our customers or reduce the surcharges they pay, and create a biomass resource we will process and market, reducing costs to our customers.

We use the same proven wastewater treatment processes and equipment, but with a more advanced micro-organism.



Industries

The Algal Scientific HyperTrophic Water Treatment Process brings the greatest benefits to customers that generate organic based wastewater that contains medium to high concentrations of BOD as well as nitrogen and phosphorus. Among those successfully processed are landfill leachate, egg wash water, ethanol plant thin stillage, meat processing, municipal wastewater treatment plant centrate, dairies, and breweries.



Call or email us for a no obligation evaluation of your wastewater using our HyperTrophic process.

At no charge, we will test it in a program using a combination of operation parameters to determine the uptake rate of BOD, nitrogen and phosphorus, and provide an initial economic analysis.

- If we can save you money, we can then arrange an on-site demonstration at a nominal flow rate of 1000 gallons/day using our mobile demonstration plant.
- At the completion of a 60 day demonstration we will deliver a final report documenting the results and a proposal based on preliminary design with your expected costs and savings.

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