

# Food & Beverage

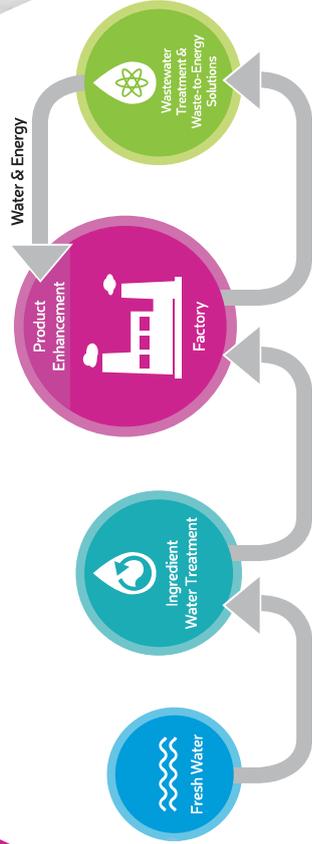


**Ingredient Water Treatment | Product Enhancement  
Wastewater Treatment & Waste-to-Energy Solutions**

progreenaquatech.in  
An ISO 9001:2015 Certified Company



AE's Aquatech Energia Water has the experience and technology to enhance customers' food & beverage products and to treat incoming ingredient water and outgoing process water.



## Ingredient Water Treatment

We produce the exact quality and quantity of water that customers need to manufacture their products. The process is designed to meet specific requirements and may include Reverse Osmosis (RO), Ultrafiltration (UF), ion exchange resins, UV, ozone, and advanced oxidation.

### Benefits of UF:

- ▶ Constant water quality regardless of the Total Suspended Solids (TSS) on feed water (Turbidity < 0.1 NTU)
- ▶ 50% less footprint compared to conventional systems
- ▶ Removes 99.99% (4-log) of viruses
- ▶ Removes 99.9999% (6-log) of bacteria
- ▶ Arsenic removal by addition of coagulants
- ▶ Automatic integrity test of the membrane
- ▶ Extends life of RO membranes when used as pretreatment for high Silt Density Index (SDI) waters

### Benefits of RO:

- ▶ Stainless steel skids and piping (sanitary construction)
- ▶ Hot water sanitizable membranes
- ▶ Lowest water rejection available on the market (8.5% recovery)
- ▶ Longer life of filter elements and lower operating cost
- ▶ Exclusive pretreatment for high SDI waters
- ▶ Preventive maintenance that does not reduce the membrane performance
- ▶ Elimination of bromide as a precursor of bromates in bottled water
- ▶ Automated Cleaning In Place (CIP) per mounted array

## Product Enhancement

Aquatech Energia provides enhancement solutions using ion exchange resins, absorbent resins, and membranes in treatment processes for products such as fruit juices, wine, whey, and sugar cane. We begin with an initial piloting stage at our laboratory to verify feasibility, dependability, and cost - effectiveness. We are experts at:

- ▶ Demineralization of fruit juices.
- ▶ Recovery of organic acids and natural fruit colors.
- ▶ Tartaric stabilization of wine
- ▶ Decolorizing of grape must, sugar cane, and fruit juices
- ▶ De bittering of fruit juices.

## Wastewater Treatment and Waste-to-Energy Solutions

Aquatech Energia water offers a wide variety of wastewater treatment solutions: Anaerobic Digestion, Membrane Bioreactors (MBR), Moving Bed Bioreactors (MBBR), Aerobic and Anaerobic Systems, Nitrification, and Denitrification. We also provide nitrogen removal from wastewater, using traditional nitrification and denitrification and an innovative autotrophic biological process, which does not require organic carbon. Both processes convert the nitrogen into gaseous nitrogen without using acids or other chemicals and without generating any by products.

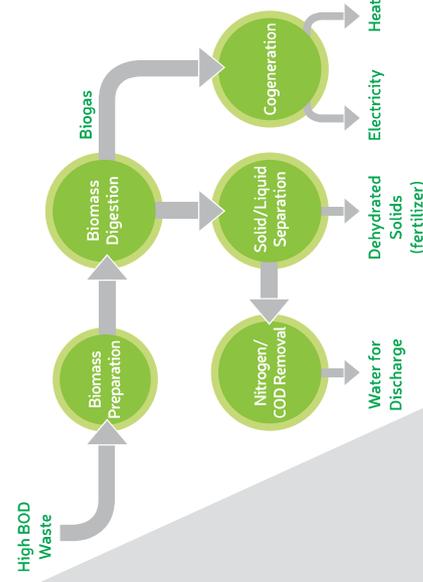
### Wastewater Treatment

- Our MBR solutions provide the following benefits:
- Better quality effluent free of suspended solids
  - Smaller footprint and less civil work
  - Operate MBR with higher concentration or solids Mixed Liquor Suspended Solids (MLSS) (8-20g/L vs 3-5 g/L)
  - Improve efficiency of the biological treatment
  - Greater operation stability.

Partner with Aquatech Energia for complete water and waste water solutions we look forward to solving your water treatment challenges:

## PROGREEN AQUATECH ENERGIA SOLUTION PVT. LTD.

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Aquatech Energia was established with a vision to become the leading water, wastewater, and reuse solutions provider in the market. We offer global solutions for desalination, water, wastewater, waste to energy, recovery & reuse, and food & beverage processing.