

Genesis Water Technologies Advanced Oxidation (AOP) System Solution



About Us

Genesis Water Technologies, Inc. (GWT), is a USA based global water and wastewater specialist of innovative and advanced treatment solutions for water and wastewater treatment with specific solutions focused upon industrial and domestic water & wastewater treatment and reuse applications.

GWT has its corporate office in Florida, USA with offices and channel partners across the world to serve industrial clients.

To learn more about us, please visit our website at:
<http://www.genesiswatertech.com> or request our companies capabilities presentation.

Specialized Market Segments

- Energy Sector

(Mining, Oil/Gas, Petrochemical, Power)

- Industrial

(Pharmaceutical, Textile, Pulp/Paper)

- Industrial Water/Wastewater Treatment & Reuse

Common Effluent Treatment (CETP), other specialized industries

- Municipal Water & Wastewater Treatment & Reuse

Domestic Sewage Treatment Plants (STP), Drinking Water

Benefits of GWT™ Advanced Oxidation System Solutions

Several Advantages of the GWT Advanced Oxidation Process System Solutions:

- Compact system solution foot print
- Rapid reaction rates
- Optimized for removal of biologically toxic & non degradable compounds
- Optimization of hydroxyl radical formation to oxidize contaminants
- Can be used with activated carbon absorption to reduce COD levels.
- Does not concentrate the waste contaminants, such as membranes
- Can be controlled via process automation for simple operation
- Reduced labor input costs
- Does not create sludge as with physical chemical process or biological processes (wasted biological sludge)

GWT™ Advanced Oxidation Treatment Solutions

How Does It Work?

Specialized Inline mixer

Oxygen generation tanks



Reactor Tanks

AOP (O₃/ LP UV)
Process

The creation of reactive particles (OH) with the highest oxidant value are generated to specifically target the compounds in the stream In this secondary or tertiary treatment process.

Advanced Oxidation Process Treatment Solutions

Client Water Challenges

We take on immense challenges that matter to our clients

- Water Treatment Recycling and Reuse
 - Water Resource Scarcity
 - Regulatory Changes
- Sustainable Environmental Remediation

Summary

GWT Series Specialized Advanced Oxidation Process Solutions can be utilized to provide a sustainable and advanced treatment solution to meet current and emerging water and wastewater treatment challenges involving specifically recalcitrant compounds, biologically toxic and non degradable compounds.

GWT system solutions provide a relatively compact footprint, offer rapid reaction rates using highly effective hydroxyl radical molecules to effectively treat multiple contaminants including aromatic compounds, pesticides, color, petroleum constituents, and volatile organic compounds among others in influent water.

The GWT advanced oxidation system solutions also provide significant disinfection, COD, and TOC removal capabilities converting contaminant compounds into stable organic compounds through mineralization if required.

These modular system solutions are typically available in flow rates from 25 gpm (135 m³/d) to 3700 gpm (20000 m³/d) and larger to meet the needs our industrial and municipal clients.

Thank You

Genesis Water Technologies, Inc.
Web: <http://www.genesiswatertech.com>

Using Innovation To Meet The Water Needs of The World

