Genesis Water Technologies
Industrial Waste Water Reuse System (IWRS)

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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 on industrial water and wastewater reuse and environmental remediation 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

- Industrial Water & Wastewater Treatment
  - Environmental Remediation
  - Water Recycling and Reuse

Modular Water Treatment Systems
GWT™ IWRS Systems

- GWT™ Series Industrial Water Reclamation Systems (IWRS) incorporate advanced treatment technology in an essentially chemical free multi-stage treatment process.

- IWRS systems were designed with flexibility in mind and incorporates optimized treatment processes to handle TSS, heavy metals, hardness minerals, colloidal silica, organics, inorganics, pesticides and other specific contaminants for wastewater treatment and reuse applications.

- High performance system solution designed to meet the specific and unique challenges of industrial wastewater streams based on experience and collaboration with clients.

- Dependable deployment of modular based solutions based on flow rate with flow rates from 25 gpm (135 m3/d) to 3700 gpm (20,000 m3/d) and larger.

- Typical TSS Reduction of up to 99.9%, certain heavy metals, and organic compounds are oxidized and bacteria is killed.
System Subject To Change Based on Industrial Wastewater Profile and Customer Requirements
We design and manufacture custom built modular water and wastewater treatment systems with flexibility in mind to meet the needs and specifications of each client’s water stream.

This includes removal or reduction of:

- Bacteria
- Suspended Solids including colloidal silica
- Specific Mineral Scalants
- Certain Heavy Metals
- Toxic Organics/Inorganics, and Pesticides

Other water treatment solutions we specialize in:

- Specialized Filtration Systems
- Reverse Osmosis Desalination
- Specialized Natural Absorbent Medias
Industrial Water & Wastewater Treatment Experience

Sectors & Locations

• Oil/Gas Sector – Africa, Americas, Asia, Middle East

• Food/Beverage Sector – Americas, Africa, Asia

• Industrial (Pulp/Paper, Pharmaceutical, Energy) – Americas, Asia, Africa, Middle East

• General Industrial – Americas, Asia, Africa, Middle East
Publications & Awards

Prestigious Industrial Water Treatment Awards:

Industrial Water & Waste Digest–
Top Industrial Water Treatment Project Award – 2016 & 2017

Articles/Case Studies Published in Major Worldwide Publications:

• Industrial Water & Waste Digest
• Water & Waste Digest
• Pollution News
• Construction Review Online – Africa
• Environmental Expert
• Water & Waste Processing Magazine

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Industrial Water Treatment & Remediation Challenges

We take on immense challenges that matter to our clients

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

The GWT™ IWRS treatment process is flexible and optimized to meet the needs and specifications of each client.

Systems can typically include the following processes:

- Specialized Filtration Processes
- Optimized Electrocoagulation Process
- Flotation Process
- Advanced Oxidation Process
- MBBR Biological Process or Tertiary RO Process
GWT™ IWRS Capability

• Turbidity <0.1 NTU

• Removal of solids, viruses, turbidity, certain heavy metals, organics, pesticides, oil/greases, hydrocarbons, ammonium, phosphate and other specific contaminant compounds

• Removal of up to 90% range of hardness minerals based on pH without the use of chelating agents.

• System provides a simplistic yet advanced solution for industrial water recycling and reuse and environmental remediation.
### Case Study

Produced water treatment system in Colombia for an internationally recognized Oil E&P company

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Before Treatment</th>
<th>After Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron</td>
<td>mg/L</td>
<td>97.5</td>
<td>&lt; 0.1 mg/L</td>
</tr>
<tr>
<td>Manganese</td>
<td>mg/L</td>
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<td>&lt; 0.1 mg/L</td>
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<tr>
<td>Turbidity</td>
<td>NTU</td>
<td>87.3</td>
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<tr>
<td>Color</td>
<td>Pico Units</td>
<td>74</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

Results based on specific case study water analysis – individual results may vary
Cost

Clients confirmed that GWT™ IWRS treatment cost are optimized for Opex costs and provide highly efficient and effective treatment performance to solve industrial water and wastewater treatment and environmental remediation challenges.
Summary

GWT Series Industrial Wastewater Reclamation Systems (IWRS) incorporates advanced treatment technology in an essentially chemical free multi-stage treatment process with lower operating and maintenance costs.

The IWRS is flexible incorporating treatment processes to handle TSS, turbidity, heavy metals, bacteria, organics including pesticides and phenolics, COD and BOD for water reuse and other potential industrial water and environmental remediation applications.

Dependable deployment of modular based solution based on flow rate with flow rates from 25 gpm (135 m3/d) to 3700 gpm (20,000 m3/d) and larger.

Typical TSS Reduction 99.9%, Heavy metals are oxidized, BOD/COD is reduced, organics and bacteria are removed. TDS is removed as part of a tertiary treatment process to enable process water reuse.

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Thank You

Genesis Water Technologies, Inc.
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Using Innovation To Meet The Water Needs of The World

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