Water Solutions

Flexibility Matters

No two water treatment projects are alike, which is why we designed PACT systems with flexibility in mind. From retrofits to new construction, prefabricated units to large-scale, custom-designed systems, PACT systems provide versatile, cost-efficient solutions for the most difficult wastewater treatment challenges. This ensures operational stability—even allowing opportunity for wastewater recovery and beneficial reuse.

Custom Solutions for Unique Challenges

Whether you’re facing a current effluent compliance issue or assessing strategies to meet future water quality objectives, your unique water treatment challenge demands a customized solution. By partnering with Siemens during the early concept design phase, you can expect a PACT solution that’s perfectly tailored to your operations, while keeping your long-term costs in mind and in check.

Package Plants Save Time & Design Costs

For smaller municipal and industrial wastewater flows, we offer the economic advantage and convenience of several pre-engineered package PACT systems—all skid-mounted and ready to deploy. Both factory-built and field-erected models are available, with design capacities from a few hundred gallons up to a million gallons a day.

Expertise Matters

Siemens understands the challenges you face as utility and refinery managers. Specifically, the issues you contend with as you apply new technology and implement water reuse strategies to reduce the environmental impact of wastewater discharges. That’s why refinery and petrochemical industries have relied on our expertise for premier effluent water quality—while complying with stringent regulatory standards and controlling costs. Put our expertise to work for you.

- 40+ years of process knowledge
- 100+ installations worldwide
- Customized recommendations
- Bench scale & field pilot plant testing capabilities

Use Cases

- Refinery and Petrochemical
- Industrial Effluent Toxicity Control
- Municipal Wastewater Beneficial Reuse
- Landfill Leachate
Price and Performance Matter

The PACT system’s unique combination of biological treatment and powdered activated carbon absorption technologies—accomplished in a single treatment step—ensures both cost savings and exceptional performance.

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<thead>
<tr>
<th>Cost-saving Benefits</th>
<th>Performance Benefits</th>
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<td>• Combines biological treatment and carbon adsorption polishing in a single treatment step, minimizing treatment footprint</td>
<td>• Removes difficult to degrade and recalcitrant organics</td>
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<td>• When combined with on-site wet air regeneration of the carbon, waste biomass is destroyed, leaving only inert ash to dispose</td>
<td>• Guards against upsets and shock loading</td>
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<td>• Carbon dose is optimized to achieve desired effluent quality</td>
<td>• Enhances operational flexibility</td>
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<td>• Controls color and odor</td>
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As the perception of water shifts from being an abundant resource to being a valuable and often scarce commodity, your water treatment needs may also change. Backed by our 40 years of wastewater treatment experience, Siemens is ready to support your teams with exceptional value and expertise. And whether your main concern is cost or regulatory compliance, we can work with you from the onset to design the right long-term solution. From the PACT system’s advantageous one-step process and lower overall costs to its range of capacity and application options, Siemens delivers when clean water matters.

To inquire about a PACT system, email water.energy@siemens.com.

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