Why the petrochemical industry needs Baswood

Petrochemical plants generate millions of gallons of wastewater—and that water can be reused! Today, many plants have old Biotreaters that are operating years past their intended life and need to be replaced. As the industry becomes more conscientious about improving operating efficiency and reducing the impact on the environment, the Baswood BioViper™ is the sensible wastewater solution that helps satisfy both fiscal and sustainability goals.

Baswood BioViper requires 30% less capital investment than traditional MBBR systems—and has an operating expense that is up to 70% less than any other technology. When compared with traditional bio-treatment technologies Baswood’s vertical enclosed reactors require less physical space, can be built in less than half the time, are much more tolerant of both hydraulic and waste strength fluctuations, and generate almost no odor. The BioViper is self-cleaning, does not clog, and requires only minimal preventive maintenance. And because the BioViper produces 80% less sludge, that means huge savings associated with haul-off, dewatering, and operational requirements.

Inspired by nature. Perfected by technology.

Utilizing our patented processes—Aerobic/Anaerobic Integrated Microbial Succession (AIMS) and the innovative Dry Cycle Aerobic/Anaerobic Digestion (DCAD) process—the BioViper provides efficient, reliable wastewater treatment within a stable, fixed media environment. The overall treatment process mimics the natural organic breakdown processes that occur in rivers as water flows through various aeration environments.
Baswood Delivers Lowest Total Cost of Ownership

Because of Baswood’s experience working with petrochemical plants, we can design and install robust systems that require minimal energy use and significantly reduced operating costs.

**Baswood Benefits**
- Lower Operating Costs
- Smaller Footprint
- Energy Savings
- No Odor

Baswood’s vertical enclosed reactors require significantly less energy, physical space, and operator interaction—benefits that deliver sustainable long-term savings compared to traditional solutions.

**Baswood 10-Year Savings: $7.5 Million VS. MBBR**
Based on Typical Size Petrochemical System

**Annual Operating Expenses**

<table>
<thead>
<tr>
<th>($) in millions</th>
<th>Baswood</th>
<th>MBBR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baswood OpEx is 70% lower than MBBR</td>
<td>$0.209</td>
<td>$0.580</td>
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</table>

**Initial Capital Expenses**

<table>
<thead>
<tr>
<th>($) in millions</th>
<th>Baswood</th>
<th>MBBR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baswood CapEx is 30% lower than MBBR</td>
<td>$9.30</td>
<td>$13.10</td>
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</tbody>
</table>

Baswood achieves the leadership position in Total Cost of Operation by designing and installing systems that are competitive in upfront capital to MBBR systems but cost significantly less to operate. This is primarily achieved via significantly lower energy requirement, minimum man hours, and very little sludge handling, if any.
About Baswood

Baswood offers an environmentally responsible, lower total cost alternative for wastewater treatment and biosolids management. Our proven, patented technologies provide effective treatment of industrial and municipal wastewater streams.

Founded in 2004, Baswood delivers innovative, technology-based solutions that produce results. Our systems are compact, customizable, and require less energy and limited manpower to operate.

- Pilot Testing
- System Design
- Equipment Supply
- Installation
- System Startup and Commissioning
- Operations Training
- Long-Term Support

For additional information or a complimentary evaluation of how a Baswood system can improve your bottom line, please contact us at:

888.560.5517 or info@baswood.com

www.baswood.com