ANAEROBIC TREATMENT, AECOMIX™-EGSB/UASB
Convert industrial wastewater into energy

Our award winning sustainable anaerobic AECOMIX™ solutions come in a variety of proven options allowing Nijhuis to offer the best for a customers application.

Whether you are interested in turning your (waste)water into a power plant, need to reduce industrial wastewater pollutant load to meet surcharge requirements, or treat industrial wastewater for water recycling, Nijhuis can incorporate the proper AECOMIX™ technical approach offering ECOlogical and ECOnomic benefits. AECOMIX™ technologies are applied to a MIXture of substances in wastewater and/or organic wastes.

Nijhuis AECOMIX™-EGSB/UASB systems are a proven technology that includes simple and efficient internal piping design and improved granular sludge retention offering a more compact, robust treatment system. High-rate anaerobic technology offers high COD and BOD removals in a highly loaded anaerobic system, requiring less footprint.

APPLICATIONS
- Food processing.
- Beverage, brewery and alcohol.
- Flavours & fragrances.
- Pulp & paper.
- Chemical & pharmaceutical.

CUSTOMER BENEFITS
- Turn a (waste)water treatment plant into a power generator.
- Conversion of wastewater into valuable energy.
- Low energy and maintenance cost.
- Maximum solids and oil/grease removal with DAF + high-rate.
- Proven technology with improved granular sludge retention.
- Smart engineering and compact design.
- Significant savings on discharge cost.
- Minimal footprint requirements due to high organic loading rates.
- Smart internal piping with cleanouts.
- Robust design and stability.
Appropriate range of UASB / EGSB solutions for high organic wastewater loadings

Nijhuis has designed a range of high-rate anaerobic treatment solutions for a wide range of industries, based on a small, moderate and larger footprint, the height of the reactor, organic loading rate and influent COD range.

<table>
<thead>
<tr>
<th>Footprint</th>
<th>Nijhuis-HL (High loaded)</th>
<th>Nijhuis-EGSB</th>
<th>Nijhuis-UASB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loading rate</td>
<td>&lt; 40 kg COD / m³/d</td>
<td>&lt; 20</td>
<td>&lt; 10</td>
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<tr>
<td>COD Range (mg/l)</td>
<td>1.000 - 50.000</td>
<td>1.000 - 50.000</td>
<td>1.000 - 40.000</td>
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