

Our services



Econvert Water & Energy

Specialists in anaerobic wastewater and biogas treatment

In the end, it's not just the equipment that treats your water, it's the whole process. We assist you with optimizing your treatment processes in many ways, because only then you can really benefit from your investments.

Rental

Our rental installations allow you to immediately enjoy the benefits of our technology without having to make substantial investments.

Biogas treatment

We will select the right technology for you out of a large variety of solutions, to optimally benefit from this renewable energy source.

Consumables

We can supply various nutrient mixes for both anaerobic reactors and desulphurisation plants. By adding the right nutrient mix, the biomass is fed with the required macro- and micronutrients.

Service Mechanical

We assist you with providing parts and service to your existing plant and equipment to ensure an optimal running plant with minimal down time and optimal up time.

Service Process

Econvert offers consultancy to optimise your wastewater treatment plant and check all important aspects for an efficient and properly operating plant.

Analysis

Econvert offers various analysis for customers who have a decline in reactor performance or customers who want to test the anaerobic degradability of their wastewater.



Rental



ECOR[®] RENTAL INSTALLATION

We understand that CAPEX is not always readily available to invest in effluent treatment, or that you may want to avoid long-term financial commitments. In such situations, we still make it possible for you to obtain the benefits of our technology. We can offer rental installations that allow you to immediately enjoy the benefits of our technology without having to make substantial investments. Long term contracts can be agreed, as well as short term 'peak shaving' of excessive load on your existing effluent treatment system. As we want to contribute to the widespread use of anaerobic treatment, we offer flexible solutions.

Advantages

- Off-balance solution
- Turn-key installation
- Fully automated
- Low maintenance needs

PILOTS

Econvert's anaerobic wastewater pilot unit is specially designed to test whether an anaerobic effluent treatment plant is suitable to treat wastewater coming from the production process(es). This part of the raw wastewater contains organic compounds that can be tested on its biodegradability.



Take a look at our
solutions and products

Scan QR code to visit our website

Service Mechanical

Your wastewater treatment plant also requires regular maintenance to ensure its optimal functionality. Our goal is to keep your equipment performance at a high level and avoid unexpected costs and downtime.



SPARE PARTS SUPPLY

To avoid a breakdown, it is important to stock crucial parts of your installation and perform preventive maintenance during a stop. We will be happy to make a customized offer for you.

INSPECTION

In order to make optimum use of the installation, it is wise to inspect the installation periodically.

- First inspection 3 years after commissioning
- Follow-up inspection every 5 years
- Check of entire installation and condition of the mechanical and electrical components.
- Full report after every inspection

MAINTENANCE

We carry out minor or major maintenances for you on an occasional or periodic basis.

RETROFIT

With a retrofit, we modernize your existing wastewater treatment plant. With a limited investment, we ensure that your current installation once again meets the requirements, performs optimal and is future-proof. We carry out the retrofit regardless of who has supplied the current installation.

UPGRADES

We can upgrade parts of the wastewater treatment plant for example by installing or replacing a caustic soda scrubber or tank, dosing system, flare, biogas buffer or tank.



Biogas treatment

The anaerobic degradation of organic material results in the production of biogas. To make sure that the biogas has the required quality, pressure and humidity to utilize it, Econvert selects the best suitable technology for you out a large variety of solutions, to optimally benefit from this renewable energy source.

We offer the following biogas treatment products:



Biogas Buffers

Biogas buffers for stabilizing pressure and flow



Flares

Standard flares and high temperature flares to burn the biogas when it cannot be utilized



Biogas Blowers/Compressors

Increasing pressure by means of side channel or roots blowers



Biogas Cooling/Drying

Biogas cooling/drying for lowering the dew point and avoiding issues with condensate



Take a look at
one of our solutions

Scan QR to see our movie
of Concorp



Our Service



Replace and
upgrade



Full
maintenance
and inspection



One-stop shop
for spare parts



Technological
support

Consumables

We can supply consumables for both anaerobic reactors and desulphurisation plants which varies from different nutrient mixtures, EAE powder to anaerobic biomass.



NUTRIENT MIX

We offer various nutrient mixes for both anaerobic reactors and desulphurisation plants to help the biomass in your reactor growing well and perform optimally.

By adding the right nutrient mix, the biomass is fed with the required macro- and micronutrients (such as nitrogen, phosphate and trace elements).

EAE POWDER

Oil, polymers, fats or other organic molecules cause damage to the anaerobic granules. These substances adhere to the biomass and cause washout of the granular sludge.

By adding EAE powder to the wastewater that is treated in the anaerobic reactor, the organic molecules are deactivated which improves the degassing and biomass growth.

BIOMASS

We can provide you with good quality biomass for your anaerobic reactor or desulphurisation plant.

When the reactor is running properly, the biomass grows over time due to the nutrients present in the wastewater. If this is not the case, we can help you finding the cause by providing a technological check of the installation resulting in recommendations for improvement.

Service Process

Econvert offers technological consultancy to help controlling the wastewater treatment plant and optimize its performances by checking all important aspects for a properly and efficient operating plant. This can be carried out with a site visit (audit) and remote assistance until the results are visible.



AUDITS

A complete check of the entire system. Is everything up to date? Is the installation technically in proper condition? How is the installation technologically performing? We advise you on this after an audit has been carried out.

CONSULTANCY

Our technological service helps you to control the wastewater treatment plant by checking all important aspects for a properly running plant. Econvert believes that not only the delivery of a product like an anaerobic reactor or desulphurisation plant will lead to the wanted savings on operational costs, but optimization of the full treatment plant is key. The consultancy can include a site visit and remote assistance, together we conclude a service level agreement which suits your needs and varies from daily to quarterly monitoring.

PROCESS MANAGEMENT

We check in on a regular basis and make analyses, so you can be assured that no major calamities occur. Together, we conclude a service level agreement tailored to your needs and we monitor weekly, monthly or quarterly with you.

TROUBLESHOOTING

In the event of a calamity or disturbance, you need immediate help. We can take a look at the data and come on site to go through the entire installation with you. The troubleshooting can include the need of analysis of the wastewater and/or biomass.

Advantages

- Years of experience in wastewater and biogas treatment
- Operational reliability of your installation
- Reliable and knowledgeable partner
- Savings on operational costs



Analysis

Econvert offers various analyses for customers who have a decrease in reactor performance or customers who want to test the anaerobic bio degradability of their wastewater.

These analyses can help to determine the problem of the decrease in reactor performance or to determine if the available wastewater is suitable for anaerobic wastewater treatment.

→ Anaerobic sludge activity analysis

- Determine the quality of anaerobic sludge
- Determine possible inhibition of the biomass
- Determine the sludge activity with different substrates
- Determine the average granular diameter, settling velocity and the quantity of floating sludge

→ Toxicity analysis

- Determine the inhibitory effect of wastewater or substrates on the anaerobic sludge
- Feeding the wastewater or substrate to good quality sludge during an anaerobic test
- Measuring the amount of produced methane and sludge activity

→ GC-MC analysis

- Indicate the type of inhibiting component(s) present in the wastewater or anaerobic sludge
- Wastewater or anaerobic sludge is extracted and analyzed using gas chromatography in combination with mass spectrometry
- Analysis focusses on the separation of volatile organic compounds

→ Anaerobic degradability analysis

- Determine if a wastewater stream can be anaerobically degraded
- Determine the quantity of COD and percentage of COD that is anaerobically degradable
- Measuring the biogas production during anaerobic degradation
- Analyzing possible short-term toxic effects on anaerobic sludge



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