

Alpha Cleantec AG

Newsletter January 2024

Dear Madam or Sir,

We hope this email finds you well.

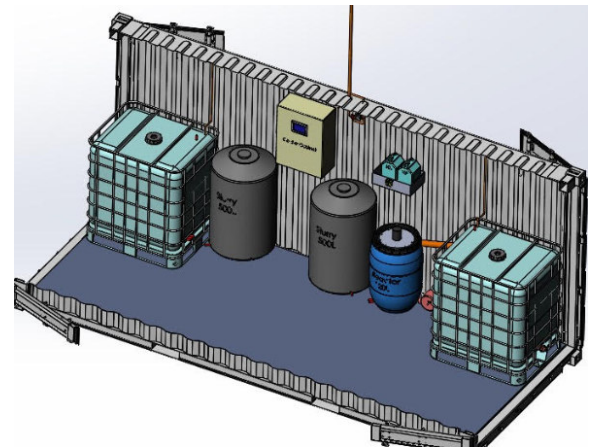
In January, we launched a new business cooperation with the operating company of one major German Industrial Park covering Alpha Cleantec's expertise in the fields of wastewater and sludge treatment, soil remediation and vegetation control. We furthermore launched new cooperations and strategic alliances with equipment suppliers and water utility services operators in the Middle East and Australia, in the fields of water treatment and soil remediation.

From our R&D department, we are happy to provide you with a new update regarding customer projects.

Development and Construction of a Standalone Sludge to Biogas unit for long- and short-term Pilots.

The Problem: Anaerobic wastewater plants have a great potential for the generation of biogas. However, today, most of the biogas units in the anaerobic wastewater facilities work with less than 50% efficiency. This situation can be changed with efficient pre-treatment of the sludge before the digester. We propose a pre-treatment unit that can significantly increase the efficiency of the biogas units. However, wastewater operators are afraid to connect the pre-treatment unit to their digester as any problem in the pre-treatment unit can damage the efficiency of the digester up to the total stop of use.

The Solution: We developed a small, containerized, standalone, and plug-and-play unit with a pre-treatment unit and the pre-treatment unit. This approach allows us to show the efficiency of the pre-treatment unit in real-work.



Maybe you face similar challenges in your business. Then please feel free to contact us.

<https://www.linkedin.com/company/alpha-cleantec-ag/>





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About Alpha Cleantec AG

We believe that our eco-system requires looking after so we have a world worth living in to pass to our next generations. Decontamination of soil and water from hazardous contaminants plays a major role in this regard, in our view. This is why we established Alpha Cleantec AG as an environmental technology company in 2016 with the vision to provide safe, green, rapid, efficient and cost-effective technologies to resolve environmental harms and hazards caused by inadequate human and industrial activities.

For Decontamination of a wide range of contaminants (see table below), we provide two technologies, AFA and SOA, achieving decontamination ratios of up to 97% in just hours (such as for Hydrocarbons, BTEX, Petroleum leftovers, Aromatics, PAHS, Chlorinated Solvents, PCBs, Dioxins as well as Pesticides and Herbicides) to be applied in soil, groundwater, wastewater and railway ballast treatment.

For wastewater facilities we have developed, based on our proprietary technology, a process allowing to pretreat sludge before the digester, thereby significantly increasing biogas generation (up to 50%) and decreasing dry sludge disposal at the end of the process (up to 20%).

For Vegetation control we have developed a process based on an environmentally friendly mixture of inorganic salts that generates concentrated (non-Glyphosate) herbicide absorbing water from the plants and drying the plant including the roots, without changing the salinity of the soil.

Table of contaminants treatable by our technologies

CONTAMINANTS	IN-SITU		ON SITE	
	SOA	AFA	SOA	AFA
BTEX				
Benzene	*	*	*	*
Toluene	*	*	*	*
Ethylbenzene	*	*	*	*
Xylene	*	*	*	*
PETROLEUM HYDROCARBONS				
Gasoline Range Organics (GRO)	*	*	*	*
Diesel Range Organics (DRO)	*	*	*	*
Oil Range Organics (ORO)	*	*	*	*
AROMATIC				
Chlorobenzene	*	*	*	*
Bromobenzene	*	*	*	*
Dichlorobenzene	*	*	*	*
Nitrobenzene	*	*	*	*
Phenol	*	*	*	*
Styrene	*	*	*	*
Naphthalene	*	*	*	*
Trichlorobenzene	*	*	*	*
Trimethylbenzene	*	*	*	*
PAHS				
Phenathrene	*	*	*	*
Naphthalene	*	*	*	*
Acenaphthylene	*	*	*	*
CHLORINATED SOLVENTS				
Tetrachloroethylene	*	*	*	*
Trichloroethene	*	*	*	*
Dichloroethene	*	*	*	*
Vinyl chloride	*	*	*	*
Tetrachloroethane	*	*	*	*
Trichloroethane	*	*	*	*
Dichloroethane	*	*	*	*
Dibromochloroethane	*	*	*	*
Bromodichloromethane	*	*	*	*
Carbon tetrachloride	*	*	*	*
Chloroethane	*	*	*	*
Chloroform	*	*	*	*
Chloromethane	*	*	*	*
Chlorotoluene	*	*	*	*
Methylene chloride	*	*	*	*
PCBS				
DIOXINS				
PESTICIDES AND HERBICIDES				
Glyphosate	*	*	*	*
Goal	*	*	*	*

We plan to inform you in the future about newly accomplished projects, pilots or case studies. Please let us know if you do not wish to receive our company news.

Kind regards/ Mit freundlichem Gruß

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