

# Alpha Cleantec AG

## Newsletter September 2020

Dear Sir or Madam,

ACT is very proud to announce that the ACT prototype was awarded with the Solar Impulse Label in September 2020 as one of only 714 (currently) efficient solutions worldwide. Visit the prototype solar impulse website:

<https://solarimpulse.com/efficient-solutions/mobile-on-site-soil-and-wastewater-treatment-machine-mst>

### Solar Impulse - A label focused on both environment and profitability

An award for clean and profitable solutions, assessed by independent experts, the Solar Impulse Efficient Solution label, serves as a credible marker of quality to decision-makers in business and governments. Only 1000 solutions worldwide will be selected, that can protect the environment in a profitable way and Solar Impulse will present them to decision-makers to fast-track their implementation. A way to take the success of the solar-powered flight around the world further. Learn more about the Solar Impulse Label at <https://solarimpulse.com/label>

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

### Successful pilot completed with a large Swiss soil treatment company

**The Problem:** The pilot project was with a large Swiss soil treatment company in the area of soil decontamination. One of the issues they are facing is that their own processes for soil washing and decontamination are not efficient enough for Soil Type E or higher under Swiss regulation and the disposal of this soil is very costly.

**The Objective** It is therefore the intention of our potential customer to cost-effectively decontaminate the soil in such a degree that it can be classified as Soil Type B or lower under Swiss regulation and, hence, be disposed or retreated at much more economic rates.

**The Solution:** We have implemented a series of pilots treating 125 kg of contaminated soil thereby demonstrating that through a simple process our SOA technology could be applied providing up to 30% savings by reclassifying the soil to lower Soil Types according to Swiss regulation.

### Pilot Results

Contamination	Pollution degree (ppm   mg/kg)	After treatment (ppm   mg/kg)	Reduction of pollution in %
C10-C40	1020	492-517*	49%-52%
PAH	780	48-51*	93%-94%

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

Sincerely,

**Your Alpha Cleantec Team**

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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 a vision to provide safe, green, rapid, efficient and cost effective technologies to resolve environmental harms and hazards caused by inadequate human and industrial activities.

Alpha Cleantec AG provides two technologies, AFA and SOA, achieving decontamination ratios of up to 97% for a wide range of contaminants in just hours (such as Hydrocarbons, BTEX, Petroleum leftovers, Aromatics, PAHS, Chlorinated Solvents, PCBs, Dioxins as well as Pesticides and Herbicides) to be applied for soil, wastewater and railway ballast treatment.

Table of contaminants treatable by our technologies

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

We plan to inform you in future whenever we accomplished projects, pilots or case studies. If you do not wish to get our company news, please let us know.

Kind regards  
Alpha Cleantec AG

Phone: +49 (0) 6221 64924 0 · Fax: +49 (0) 6221 64924 72

[info@alphacleantec.com](mailto:info@alphacleantec.com) · [www.alphacleantec.com](http://www.alphacleantec.com)