

21st September 2021

Ultrawaves Wasser- und Umwelttechnologien GmbH  
Dr. Nickel / Herrn Pagel  
Becker-Göring-Str. 17 - 25  
76307 Karlsbad, Germany

Reference letter regarding successful application of Ultrawaves High-Power Ultrasound Technology for improvement of anaerobic sewage sludge digestion

Dear Dr. Nickel,

We herewith confirm that WWTP Meldorf is using Ultrawaves High-Power Ultrasound Technology for sewage sludge disintegration to improve the anaerobic sewage sludge digestion performance since year 2004.

Our detailed mass balances have shown a 25% improvement of sludge volatile solids degradation and a 25% improvement in total biogas production since the installation of the Ultrawaves HPUS-technology. As another very positive result we have stopped foaming problems in the anaerobic digester tank so that our digestion process can be operated in a stable mode free of problems.

We have made and clearly confirm very positive experiences with the Ultrawaves HPUS-technology regarding the technology itself and the engineering services from Ultrawaves.

Best regards,

(Managing Director of Meldorf WWTP)

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