

Dowon Env Co. Ltd.

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Company Overview

DOWON&BIO was established to provide clean water and air by removing pathogenic bacteria and non-biodegradable organic contaminants contained in water and air that, in time, became more polluted. DOWON&BIO developed a UV disinfection system for sterilizing pathogenic bacteria including colon bacillus with a built-in advanced oxidation process system based on non-discharge circulation to save water resources through oxidization of feces, urine and sewage sludge. For adsorption ceramic carriers, it is also an "NP Cleaner" to improve the quality of water used in aquariums and fish farms, and an "FS Cleaner" to remove 11 organic chemicals, including benzene and toluene that cause sick building syndrome through adsorption while stepping up efforts to realize commercialization.

History

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- 2013** Established corporation
University-Company-Research Institute Cooperation (Development of Micro Bubble Sterilization Technology)
 - 2014** Independent R&D : Development of High-Power Ballast Stabilizer
 - 2015** Independent R&D : Pressurized Micro Bubble Generator
 - 2016** Venture Business Certification
 - 2017** Direct Production Certification
Commercialization for low-concentration ozone micro bubble UV sterilization system
 - 2017** SMBA - Selected for Industry-Business Cooperation (Development of Ceramic Microorganism Carrier Manufacture Technology for Purification of Water in Inland Fish Farms)
Gangwon Techno Park (Cheorwon Plasma Research Institute) - Selected for Technology Training Support Project
 - 2018** Startup Growth Research Project (ICT-based advanced oxidation system for reduction of both-organic sludge in small town sewage treatment facility and odor by 90% or more_2018)
 - 2019** Adsorption Ceramic Microorganism Carrier - Commercialization (Online sale)
 - 2020** Acquisition of functional certificate on "UV Sterilization System Based on Low-Concentration Ozone and Micro Bubbles"

Performance

Certification

- **2020. 06** UV Sterilization System Based on Low-Concentration Ozone and Micro Bubbles (20-AD20219)
- **2020. 04** ISO 9001:2015 (No. 20-A-1891 Rev. o)
- **2020. 05** Venture Business Certificate (20200106893)
Affiliated Research Center Certificate (2017114923)
- **2018. 09** Direct Production Certificate (2018-0016-00075)

Patented technology

- Micro Bubble Sterilization System
- High Concentration Waste Water Treatment System
- Non-Biodegradable Organic Waste Water Treatment System
- Advanced Treatment System Based on Micro Bubble Generators, Micro Bubbles, Low-Concentration Ozone and UV Lamps
- Nitrogen-Phosphorus Adsorption Ceramic Microorganism Carriers and Manufacture Method

