

Product Overview - System



Coolant (Water) Purification System



Before

After

20 tons separated per 10-inch filter



Used Oil (Oil) Purification System



Before

After

100 L separated per 10-inch filter

Target Markets & Contact



Target Markets



Industrial oily wastewater treatment system

Efficient separation and purification of emulsified oily wastewater generated from washing and machining processes



Water Purification System

Removes fine oil and impurities in the purification process to stabilize water quality and support equipment operation



Dry Cleaning System

Removes moisture mixed into organic solvents to improve process efficiency and protect equipment



Marine systems

Management of oily water from ships and offshore facilities and provision of solutions to prevent marine pollution



Oil Drilling

Separates water mixed in during drilling and production processes to ensure crude oil purity



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Just Renew Eco!

ECORENEW

ECORENEW Inc. is an environmental improvement company specializing in resource circulation and carbon reduction based on innovative nano-coating technology.

www.ecorenew.co.kr



ECORENEW

Company Overview



Need for the Technology



Product Overview - Filters



Customer Value

Resource Recycling

By using high-performance nano filters, the separated water and oil can be reused.

Cost Reduction

Reduces wastewater treatment expenses and overall production costs.

Improved Working Environment

Instant separation significantly reduces odor generation and accident risks.

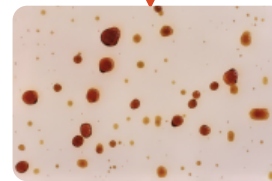
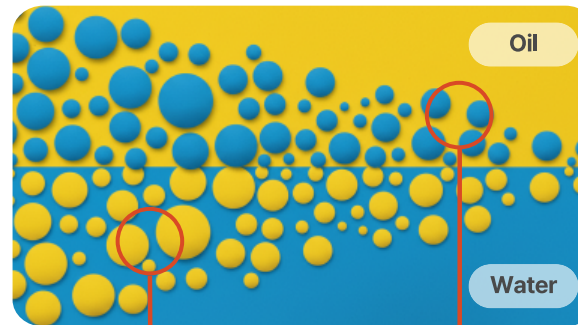
Space Efficiency

Compact design improves the utilization efficiency of space in the plant.

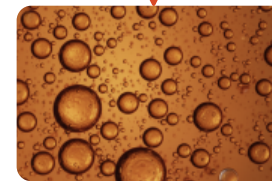
History of ECORENEW

- 2025.12 Pre-A investment—Korea Credit Guarantee Fund
Commendation from the Governor of Gyeonggi Province
- 2025.11 Encouragement Award—Water Industry Innovation Startup Competition
Grand Prize—KINGO-GA Korea Startup Competition
- 2025.10 Pre-A investment—Bilance Investment Co., Ltd.
- 2025.05 Certified as Excellent Company for Employee Invention Compensation
- 2025.02 Grand Prize—Hankook Ilbo Green & Energy [Green Technology]
- 2024.12 ISO 9001/ISO 14001 certification
- 2024.07 Selected for TIPS Startup Growth Technology Development Program
- 2024.06 Seed investment—KingoSpring Co., Ltd.
- 2024.05 Certified Venture Company [R&D Type]
- 2023.10 Corporate R&D Center established
- 2023.09 ECORENEW Inc. incorporated

Emulsified Oily Wastewater



Oil-in-Water Emulsion

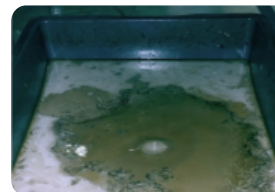


Water-in-Oil Emulsion

Although water and oil separate into layers due to their density difference, oil emulsions remain dispersed in the separated water and water emulsions remain dispersed in the separated oil, making recycling impossible.

→ Using selective permeation, these emulsions can be separated instantly.

Importance of Oily Wastewater Management



Risk of exceeding environmental regulatory limits due to sludge accumulation, decomposition, and foul odors inside the plant

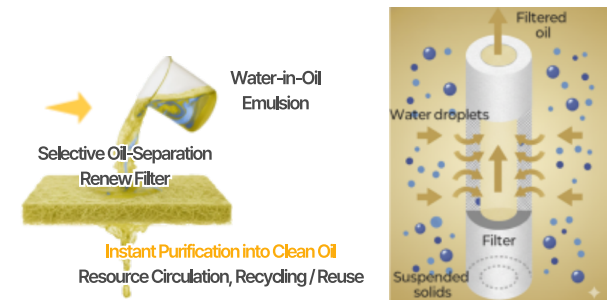


Clogging of pipes/drains
Increased wastewater treatment costs due to higher oil content

Selective Water / Oil-Permeable Filters



Permits water permeation while selectively rejecting oil



Permits oil permeation while selectively rejecting water

Field Demonstration Results

- Oil content in separated water reduced to 10 ppm
Meets wastewater discharge standards
- Water content in separated oil reduced to 200 ppm
Restored to fresh-oil moisture levels