



COMPANY PROFILE

Waste & Environmental
Technologies Ltd.



ABOUT US

Waste & Environmental Technologies Ltd. (WET) is a leading environmental engineering company specializing in mobile and containerized water and wastewater treatment systems. With over two decades of field experience across Asia, Australia, the Middle East, and Europe, we deliver tailored, practical solutions for municipal, industrial, and remote community needs, including humanitarian deployments.

Our proprietary WetSep system, is deployed for rapid deployment and highly effective in construction runoff, surface water treatment, and decentralized wastewater management. It has been endorsed and adopted by major contractors, utilities, and governmental bodies across multiple countries.

CERTIFICATIONS & AWARDS



NOVA Award

ISO 9001:2015
CertificationAsian Innovation
Award 2023

CE Certification

Constructionline
Gold MemberConstructionline - Gold
Membership



OUR VISION

To be the global leader in exploring, pioneering, and innovating environmental technologies that enhance the quality of life and promote a sustainable future.

OUR GUIDING PRINCIPLES

Our mission is to deliver environmental solutions that are fundamentally accessible and responsible. We achieve this by adhering to a core set of principles:

01 SIMPLE & INTUITIVE

Easy to apply and operate systems, minimizing training and complexity.

02 COST-EFFICIENT

Minimal capital outlay and low operational costs for sustainable solutions.

03 ENERGY-CONSCIOUS

Low energy demand, reducing reliance on non-renewable resources.

04 LOCALLY ADAPTABLE

Utilizing local resources and labor, supporting regional economies.

05 ENVIRONMENTALLY & SOCIALLY RESPONSIBLE

Nurturing people and nature with positive, lasting impact.



OUR GLOBAL FOOTPRINT



WET's solutions have been successfully deployed in 17 countries across the globe. Our experience spans a wide array of climates, regulatory environments, and project types—from the arid landscapes of the Middle East to the dense urban centers of Singapore and Australia. Our clients include leading contractors, government agencies, municipal authorities, and humanitarian organizations in the construction, infrastructure, industrial, and disaster relief sectors. This international expertise demonstrates our ability to deliver robust, adaptable solutions that meet the specific needs of diverse global challenges.



OUR CORE PRODUCTS

WET's portfolio is built on a foundation of patented and proven technologies, designed to address a wide range of water management and purification needs.

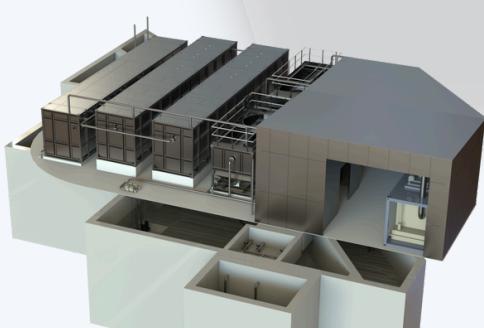
→ **WetSep Wastewater Treatment System**



→ **eWetSep Advanced Treatment System**



→ **WetSep Wheel Washing Machine**



→ **WetSep Sewage Treatment Plant**



→ **WetSep Pure**

RELEVANT PROJECT EXPERIENCE

TUNNELLING WASTEWATER FROM DRILLING AND BLASTING

Location	Slemmestad, Norway
Client	Veas AS
Completion Date	2025

Scope of Services

For the Veas Wastewater Treatment Plant in Slemmestad, Norway, WET was commissioned to design, supply, and implement a water treatment system to manage process water generated during the construction of a new rock hall and access tunnel for the plant's dewatering facility. The system was engineered to ensure effective treatment of tunnel wastewater, maintaining environmental compliance and supporting sustainable construction operations.

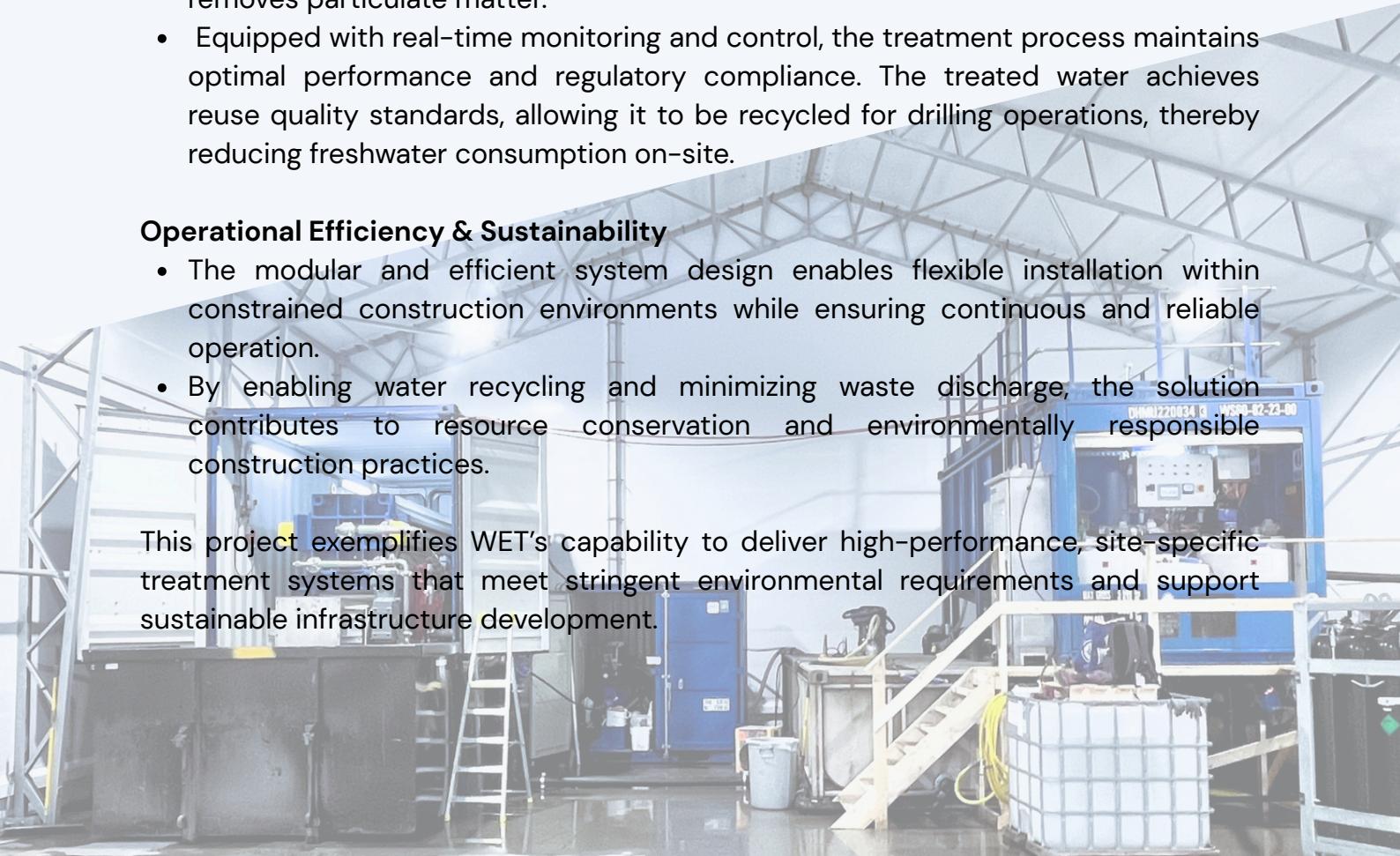
Project Scope & Solution

- The treatment system integrates a WetSep filtration unit with a sludge dewatering process, providing a robust solution tailored for the challenging conditions of tunnel construction. Designed to handle high concentrations of suspended solids resulting from drilling and blasting activities, the system effectively separates and removes particulate matter.
- Equipped with real-time monitoring and control, the treatment process maintains optimal performance and regulatory compliance. The treated water achieves reuse quality standards, allowing it to be recycled for drilling operations, thereby reducing freshwater consumption on-site.

Operational Efficiency & Sustainability

- The modular and efficient system design enables flexible installation within constrained construction environments while ensuring continuous and reliable operation.
- By enabling water recycling and minimizing waste discharge, the solution contributes to resource conservation and environmentally responsible construction practices.

This project exemplifies WET's capability to deliver high-performance, site-specific treatment systems that meet stringent environmental requirements and support sustainable infrastructure development.



RELEVANT PROJECT EXPERIENCE

SEWAGE TREATMENT PLANT FOR TRANSITIONAL HOUSING

Location	Kam Tin, HKSAR
Client	New Territories Association of Societies (Community Services) Foundation
Completion Date	Ongoing

Scope of Services

For a transitional housing development at Kam Tin, WET was commissioned to design, supply, and construct an on-site sewage treatment plant (STP) with a capacity of 533 m³/day. Since no public sewerage system is available in the vicinity of the development site, the STP was engineered to provide a self-sustained wastewater management solution that ensures compliance with regulatory discharge standards.

Project Scope & Solution

- The STP design follows a multi-stage treatment sequence, integrating primary, secondary, and tertiary processes. The treatment line incorporates screening, chemically enhanced primary treatment (CEPT), biological treatment, membrane filtration, disinfection, and sludge dewatering.
- The introduction of CEPT ahead of the biological stage significantly reduces suspended solids and organic loading, optimizing the efficiency and stability of downstream processes.
- The final treated effluent meets tertiary treatment standards before being safely discharged into the nearby nullah.

Operational Efficiency & Sustainability

- The plant's compact and robust design allows seamless integration into the transitional housing site while minimizing land take.
- Its advanced treatment train delivers high-quality effluent suitable for environmentally sensitive areas, supporting sustainable community development.

This project demonstrates WET's expertise in delivering reliable, site-specific wastewater treatment solutions that uphold environmental protection and community well-being.



RELEVANT PROJECT EXPERIENCE

BILGE WATER TREATMENT FOR REFUSE TRANSFER STATION

Location	Island East Transfer Station, HKSAR
Client	SUEZ NWS R&R (Hong Kong) Limited for Environmental Protection Department
Completion Date	2021

Scope of Services

WET was engaged to deliver a robust pre-treatment solution for bilge water at a waste transfer station. The wastewater exhibited extreme variability and high bio-toxicity, with COD levels reaching up to 80,000 mg/L, posing a serious threat to the integrity of the client's biological treatment system.

Engineered Solution

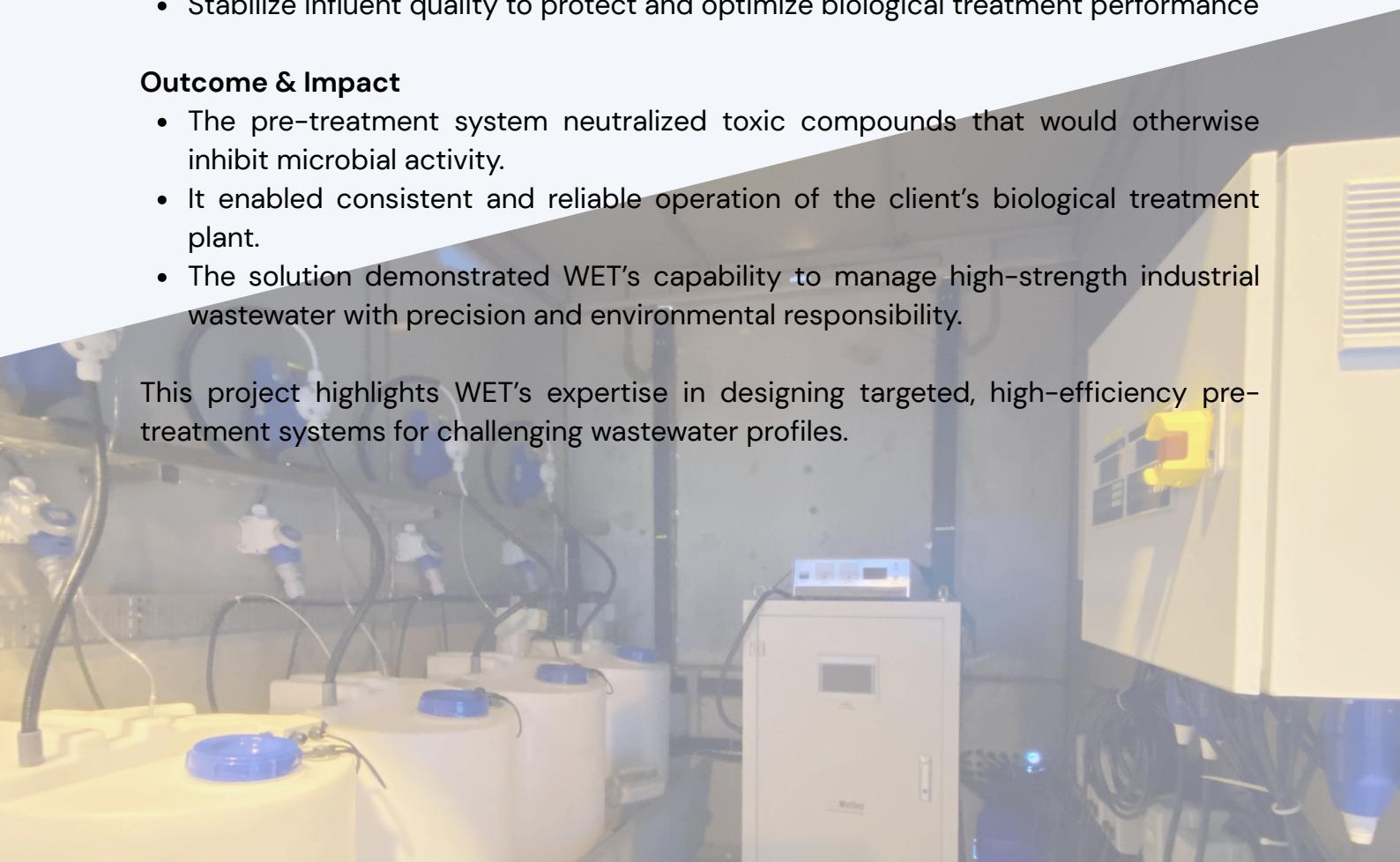
To address these challenges, WET deployed its advanced EFM WetSep system, which integrates Fenton oxidation technology with our patented filtration design. This system was specifically engineered to:

- Break down complex organic pollutants
- Significantly reduce COD, suspended solids, and overall toxicity
- Stabilize influent quality to protect and optimize biological treatment performance

Outcome & Impact

- The pre-treatment system neutralized toxic compounds that would otherwise inhibit microbial activity.
- It enabled consistent and reliable operation of the client's biological treatment plant.
- The solution demonstrated WET's capability to manage high-strength industrial wastewater with precision and environmental responsibility.

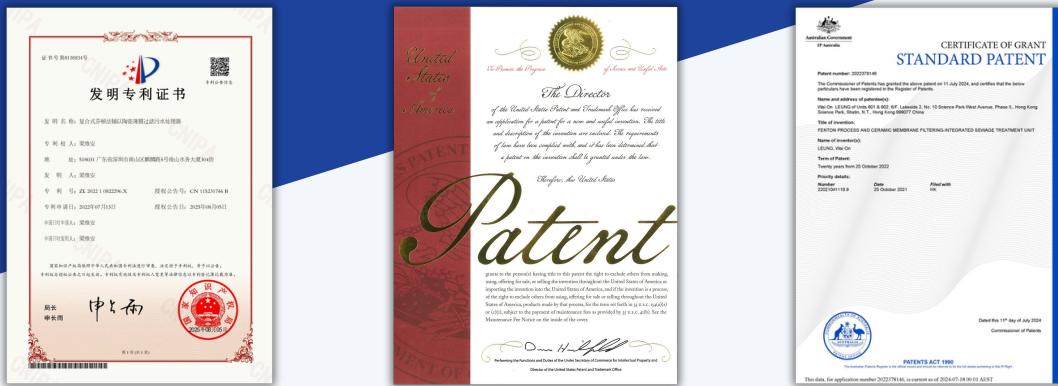
This project highlights WET's expertise in designing targeted, high-efficiency pre-treatment systems for challenging wastewater profiles.



PATENTS GRANTED

Our innovative technologies have been granted numerous national patents, providing a solid intellectual property foundation for our core products and solutions.

④ UTILITY / STANDARD PATENTS



CN 复合式芬顿法辅以陶瓷薄膜过滤污水处理器
U.S. Combined Electrochemical Impinging Stream Reaction Apparatus
AUS Fenton Process and Ceramic Membrane Filtering-integrated Sewage Treatment Unit

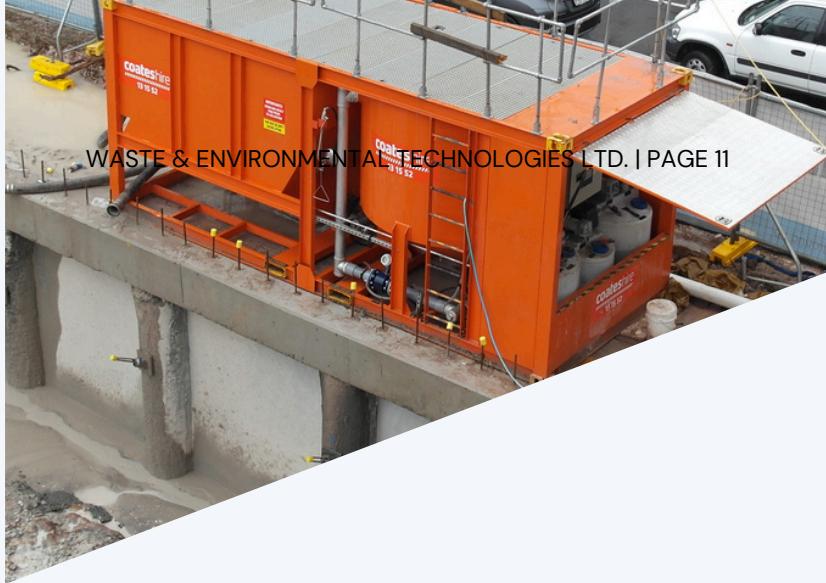
④ SHORT-TERM PATENTS



CN
 一种标准化、低碳化、模块化的净水系统
 复合式芬顿法辅以陶瓷薄膜过滤污水处理器
 电解污水处理器
 旋涡污水处理器
 空气洗涤器

HK
 Air Scrubber

2025

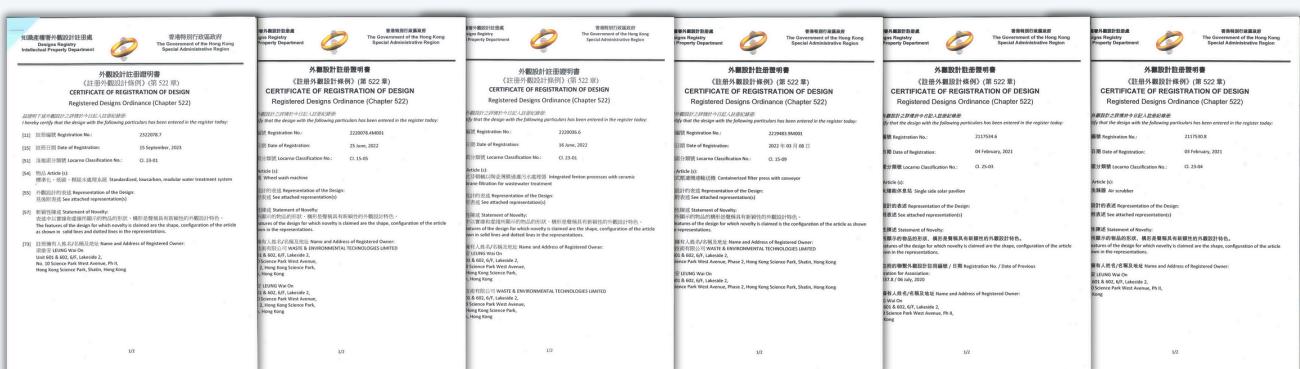


DESIGN UTILITY



CN

净水设备 / 污水处理器 (复合式芬顿法辅以陶瓷薄膜过滤) / 电解污水处理器 / 旋涡污水处理器 / 空气洗涤器



Standardized, Lowcarbon, Modular Water Treatment System / Wheel Wash Machine / Integrated Fenton Processes with Ceramic Membrane Filtration for Wastewater Treatment / Containerized Filter Press with Conveyor / Solar Pavilion / Air Scrubber

HK



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