



رؤية
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



**SAFE MANAGEMENT
FOR INDUSTRIAL WASTE Co.**
شركة الإدارة الآمنة للمخلفات الصناعية

**COMPANY
PROFILE**
www.smiw.sa.com

OVERVIEW

Safe Management for Industrial Waste Co. (SMIW) is a premier environmental services provider specializing in the transportation, treatment, recycling, and safe disposal of hazardous and industrial by-products.

Headquartered in the Eastern Province, we operate a fully integrated facility utilizing advanced physical, chemical, and thermal treatment technologies. Our logistical network extends across all regions of the Kingdom of Saudi Arabia.



VISION

To be the Kingdom's leading environmental partner, driving a sustainable industrial ecosystem through advanced waste recovery, strict safety standards, and a commitment to a circular economy.

MISSION

To deliver world-class hazardous and industrial waste management solutions that prioritize environmental protection and resource recovery. We are committed to localizing advanced technologies and developing Saudi talent in alignment with Vision 2030.

TYPE OF WASTES

Hydrocarbons & Solvents

- Oily Sludge & Tank Bottoms
- Used Oils & Lubricants
- Paints, Solvents & Thinners

Chemical & Industrial

- Spent Caustic & Catalysts
- Inorganic Sludges (Brine, Phosphate)
- Acids, Alkalis & Chemical Reagents

Solids & Specialized

- Galvanizing Waste & Fiberglass
- Fly Ash & Slag (Lead/Iron)
- Batteries (Lithium/Acid) & Asbestos

PROCESSES:

Thermal Treatment

- High-Temp Incineration
- Indirect Thermal Desorption (TDU)

Physical & Chemical

- 3-Phase Centrifugation
- Chemical Neutralization & Oxidation
- Stabilization & Encapsulation

Disposal & Recovery

- Drum Reconditioning
- Class I & II Engineered Landfills
- Bioremediation (Landfarming)

CERTIFICATES & APPROVALS

OUR COMMITMENT

SAFETY

QUALITY

RECYCLING

SUSTAINABILITY

CERTIFICATIONS & COMPLIANCE

Adhering to International Standards & Kingdom Regulations



**National Center for
Environmental
Compliance (NCEC)**

موان MWAN
المركز الوطني لإدارة النفايات
National Center for Waste Management



HAZARDOUS WASTE TRANSPORTATION, TREATMENT AND DISPOSAL



OFFICIAL LICENSES

- Environmental Operation License: No. 1443/18199
- Civil Defense Permit: Valid / Approved
- MWAN Qualification: Certified Transporter

OUR CORE SERVICES



TRANSPORTATION OF HAZARDOUS WASTE

Kingdom-Wide Fleet & Logistics

- Operates a diverse, modern fleet including vacuum tankers, super suckers, flatbeds, and temperature-controlled units for nationwide collection.

Versatile Waste Handling

- Certified for the safe transport of all liquid, sludge, and solid hazardous materials, including flammable, corrosive, and toxic substances.

Tailored Solutions

- Customized logistical planning for bulk, packaged, or palletized waste streams, ensuring full compliance with NCEC regulations.



RECYCLING TECHNOLOGIES OF HAZARDOUS WASTE

Advanced Recovery Systems

- Utilizing state-of-the-art technologies to process and recover valuable materials from industrial waste streams, promoting a circular economy.

Sustainable Processing

- Focused on minimizing landfill usage by transforming hazardous materials into reusable resources through approved scientific methods.

OUR CORE SERVICES



TREATMENT & DISPOSAL OF HAZARDOUS WASTE

Compliant Disposal Methods

- Safe and regulated disposal of non-recyclable hazardous waste in full compliance with NCEC and international environmental standards.

Environmental Protection

- Employing rigorous treatment processes to neutralize toxicity before final disposal, ensuring the utmost protection of soil and groundwater.

COMMITMENT TO ENVIRONMENTAL EXCELLENCE & REGULATORY COMPLIANCE

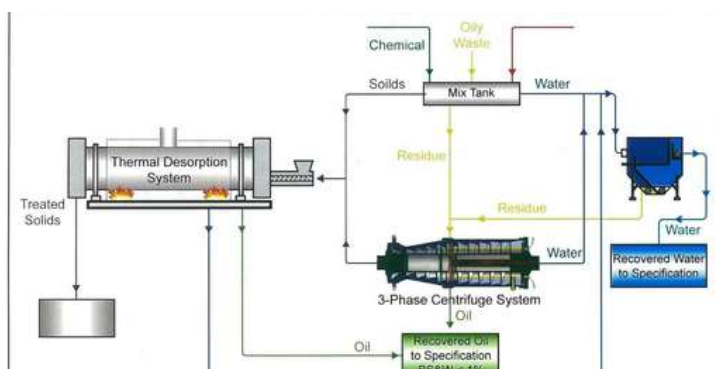
Partnering with industries for a sustainable future in Saudi Arabia.

DETAILED RECYCLING TECHNOLOGIES

SMIW is committed to maximizing hazardous waste recycling to realize significant environmental and economic benefits, including protecting human health, conserving raw materials, and reducing harmful emissions.

A. OIL SLUDGE AND HYDROCARBON WASTE RECOVERY SOLUTIONS

SMIW Co operates a 100% hydrocarbon recovery system to handle the following types of oil wastes, e.g. Slop Oil, API Separator Sludge, Tank Bottoms, Oily Wastewater, Used Oil, Contaminated Sand, Contaminated Catalyst, Drilling Fluids, Hydrocarbon Sludge and Petrochemical Sludge.



1-THREE PHASE CENTRIFUGATION SYSTEM

- It consists of two steps, First by mechanical separation and second by thermal separation.
- A high-rate, high-speed three-phase centrifuge system separates oily waste into its component parts: oil, water, and solids, allowing recovered oil to be reused.
- Discharged water averages below 2000-PPM total suspended solids and less than 1% free oil.
- The recovered hydrocarbon stream is equal to or less than 1% BS&W, depending on the feed material.
- Solids (approx. 50% by weight) are discharged via screw conveyor for disposal or further TDU treatment to reduce hydrocarbons to 1% TPH.



2-THERMAL DESORPTION SYSTEM

It consists of two steps, First by mechanical separation and second by Thermal separation.

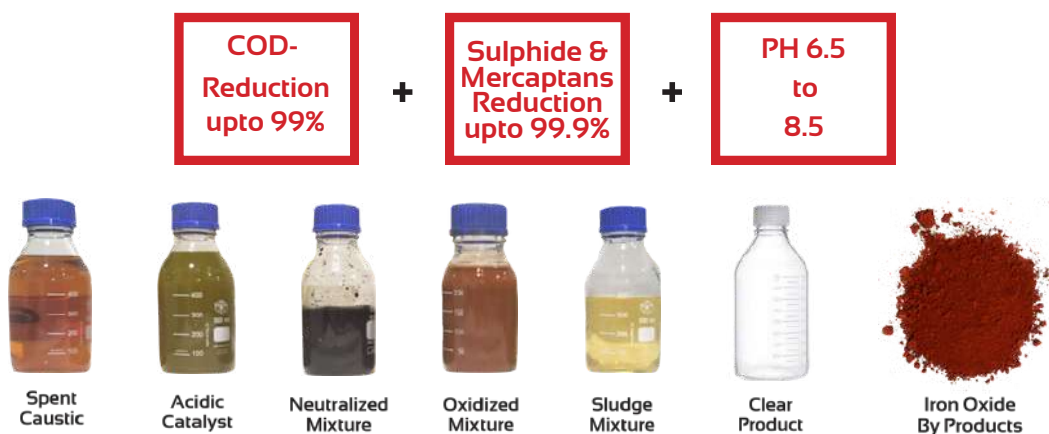
- Hydrocarbon contaminated solids are indirectly heated in an anaerobic dryer where volatiles are purged and separated by specific gravity into hydrocarbons, water, and solids.
- This is an ex situ process for physically separating volatile and semi-volatile contaminants from soil, sediment, and sludge by heating to high temperatures (usually between 170 to 550 °C).
- The TD systems effectively volatilize selected contaminants and drive off water, with solids potentially requiring further treatment based on regulations.

R&D

A. ADVANCED OXIDATION OF SPENT CAUSTIC

ECONOMICAL RECYCLE

- Utilizes modern advanced oxidation technology for efficient destruction of sulfides, mercaptans, and COD in spent caustic and other liquid wastes.
- Operated in a batch reactor under ambient pressure and temperature for cost-effective and safe operation.
- Produces valuable iron oxide byproduct for economical recycle.



B. BIOGAS TECHNOLOGY

| Recovering Organic Waste | Fertilizer-By Product

| Renewable Bio-Energy | Clean Disposal

| Minimal Emissions



- Anaerobic digestion process converting discarded organic waste (biomass) and sludge into clean biogas and stable digestate.
- Generates biogas (mostly methane and CO₂) used directly as fuel or treated for natural gas use.
- Produces nutrient-rich digestate byproduct that can be used as fertilizer.

INDUSTRY EXPERIENCE

INDUSTRIES SERVED

OIL & GAS / PETROCHEMICAL
INDUSTRIAL MANUFACTURING
CONSTRUCTION &
INFRASTRUCTURE
POWER GENERATION & UTILITIES
CHEMICAL PROCESSING

KEY CLIENTS

Schlumberger

TASNEE التصنيع
National Industrialization Company



البابطين للطاقة و الاتصالات
AL-BABTAIN POWER & TELECOM

MA'ADEN معادن
شركة التعدين العربية السعودية
Saudi Arabian Mining Company

HALLIBURTON



synthomer

الشركة السعودية للكهرباء
Saudi Electricity Company

Henkel

OUR TEAM



OUR HEAD QUARTERS





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