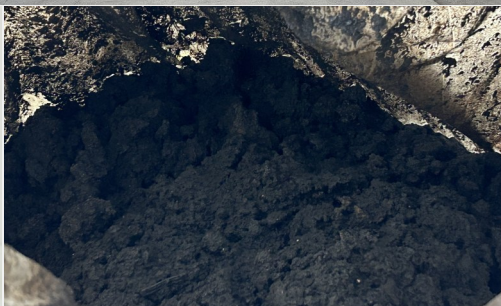


# Case Study

## Treatment for Oily Waste from Oil and Gas industry in Greece



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Zero industrial waste ... !

# Oily Waste Treatment

by econ industries' VacuDry® indirect vacuum thermal desorption

In 2021, a client in Greece sought an innovative solution for the treatment of oily waste—one that would deliver both environmental and economic benefits. With sustainability at the forefront, they turned to econ industries for our state-of-the-art VacuDry® technology, which effectively transforms hazardous waste into non-hazardous material while recovering valuable resources and minimizing the carbon footprint.

The transportation of hazardous waste over long distances poses significant environmental risks and logistical challenges. To address this, a local treatment facility was the ideal solution that reduces operational cost and eliminates the need for extensive transport logistics. As a result, econ industries installed a VacuDry® 1500 system in Greece. Combined with a centrifuge, this system has enabled the recovery of up to 1,500 tons of hydrocarbons (oil). The recovered oil and water are reintegrated into industrial processes, fostering a circular economy by reducing the demand for raw materials.

Following treatment, the remaining solid waste—significantly reduced in volume—is safely disposed of. By eliminating the need for incineration and landfill disposal, the project achieves an estimated reduction of up to 4,000 tons of CO2 emissions per year, aligning with stringent environmental regulations and contributing to global climate change mitigation efforts.

The Client is awarded the prestigious Energy Globe Award for the use of VacuDry® technology that is sustainable, energy efficient

## Performance data

- Plant type: VacuDry® 1 500
- Batch size: 1.5 m<sup>3</sup>
- Throughput capacity: ~ 5 t/day
- Heating system: 400 ° C thermal oil heating unit - operated by electricity
- Operating pressure: 50 - 800 mbar(abs)
- Design: Evaporator, heater and power supply based on 40-ft skid



Commissioned VacuDry® 1 500 plant



VacuDry® 1 500 rendering

## Design characteristics

- High quality of recovered oil – low temperature, vacuum and nitrogen prevents the degradation of oil
- Low thermal energy consumption of 200 kW
- Low wear and tear compared to other systems
- Perfect control of the process
- Highest safety level – CE and ATEX certified
- Lowest emissions and carbon footprint