

# Envirotis Holding Waste Management

## ENVIROTIS ZRT.

WASTE MANAGEMENT

WASTE DISPOSAL

WASTE TRADE

RESEARCH AND DEVELOPMENT





## RECOVERY OF METAL SLUDGES, WASTE ACIDS AND ALKALIS

Since its establishment, our company has been dealing with the treatment of conventional and mixed galvanic sludges, with a special focus on the recovery of zinc-rich waste, and from 2020 we started to recover waste acids, alkalis, rinsing waters and washing liquids at our Tatabánya plant.

Our material recovery technologies focus on specific waste streams from production wastes that are typically generated in metal finishing, coating and chemical processing plants. The technologies used recover the useful material content of the waste, thus contributing to its further recovery in the context of economic cycles and sustainability.

Wastes that have undergone recovery processes meet the end-of-waste criteria, so that they can be substituted as products for other materials after losing their waste status.

Our technologies produce the following products:

- Calcium sulphate dihydrate (gypsum), which after further processing is suitable for agricultural use
- A solution of calcium chloride ( $\text{CaCl}_2$ ), a widely used environmentally friendly dust and grit suppressant
- Calcium nitrate ( $\text{CaNO}_3$ ) solution, which is a fertiliser, foliar fertiliser feedstock and odour control additive for use in sewage treatment plants
- Heavy metal hydroxide sludges of different concentrations and compositions, which are also suitable for metallurgical purposes and for further recovery of useful materials
- Zinc sulphate solution, zinc oxide ( $\text{ZnO}$ ) and zinc sulphate monohydrate ( $\text{ZnSO}_4 \cdot \text{H}_2\text{O}$ ), feed material for the feed and chemical industry

## WASTE MANAGEMENT

Our waste management companies offer our customers a wide range of technologies to manage a wide range of hazardous and non-hazardous industrial waste across the country. We strive to keep up with the requirements of the times by focusing on recovery technologies to produce a high percentage of recycled products. Our aim is to expand the range of these technologies and develop new processes to increase the range of waste that can be recovered or recycled.

## RECOVERY OF WASTE OILS

After pre-treatment of the waste oils we receive, our company produces fluxing oil using vacuum distillation technology. The "fluxing oil" product obtained from the pre-treatment and recovery of various waste and waste oils is used as a raw material for bitumen production for road construction. We also recycle oil-contaminated packaging materials.

## BIOREMEDIATION

Our bio-recovery companies produce recultivation cover material from production waste and by-products. The materials processed during the reclamation process combine to form the organic nutrients and inorganic components, or skeletal structure, of a cover material with soil properties. In this way, the natural processes of soil formation are achieved under controlled conditions. The resulting topsoil has similar characteristics and components to natural soil and, as decades of experience have shown, is suitable for the establishment and development of living organisms.



# WASTE DISPOSAL

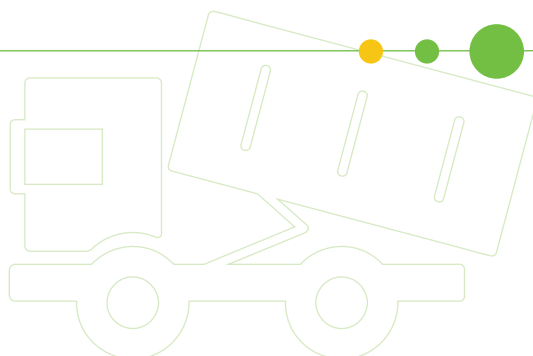
## THERMAL DISPOSAL

We use thermal disposal for hazardous substances generated during waste processing or from our customers that cannot be processed by recovery technology or is the most efficient method of disposal at the level of available technology. We also aim to recover the highest proportion of waste residues from incineration.

This mainly involves the disposal of hazardous solid, chemical, biological and medical waste in a controlled incineration process at high temperatures.

## LANDFILL OPERATION

We operate landfill sites based on the permit holder's authorization, carrying out waste reception, pre-treatment and landfill activities, and all the associated administration, including liaising with the authorities. Once the landfill has reached its capacity, we will also prepare the professional closure of the landfill in accordance with EU standards, also based on an appropriate construction plan. Envirotis Holding also undertakes the after-closure monitoring and maintenance of the landfill.



# WASTE TRADE

Our member company EnviroTrade has a contractual relationship with MoHu Zrt., the winner of the waste management concession tender issued by the Hungarian State, from 1 July 2023. Under the service contract, MoHu Zrt. will collect and transport institutional waste nationwide and provide pre-treatment at its sites in Esztergom and Királyszentistván.

We plan recycling or final disposal based on our knowledge of the hazardous and non-hazardous materials received. We make sure that the process is economical and environmentally friendly. We provide a one-stop service for all waste-related problems throughout the country.

# RESEARCH AND DEVELOPMENT

Beyond the use of modern waste management technologies, we are committed to developing new directions and technologies. To this end, we cooperate with several universities and research institutes in Hungary. Our staff regularly participates in national and international conferences and exhibitions to learn about the latest challenges and their solution methodologies.

In line with EU directives, we are increasingly looking to use technologies that ensure the material recovery of hazardous and non-hazardous waste, resulting in reusable or recycled products.



ESZTERGOM

TATA

TATABÁNYA

OROSZLÁNY

KIRÁLYSZENTISTVÁN

BALATONFÜZFŐ

SZUHOGY

KESZTÖLC

BUDAPEST

enviro<sup>o</sup>tis  
H O L D I N G

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