



Landfill Technology

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Landfill Remediation and Mining

Not properly managed or closed Dump sites and Landfills are often a ticking time bomb posing serious hazards to humans, wildlife and environment. VIA Solutions Landfill Remediation Technology is employed in highly sensitive conditions such as:

- groundwater aquifers at risk from uncontrolled leachate
- health hazards for nearby residents from naturally occurring toxins and synthetic compounds
- explosion and fire hazards from flammable gases and gas mixes
- high cost of after-care and control, particularly as regards the capture of leachate and gas emissions
- unstable conditions of the landfill body causing landslides





In the sustainable Remediation of contaminated sites, **only Solutions not involving any long-term hazards to humans and the environment are acceptable.**

Final rehabilitation of an existing problem site has been achieved only once the source of the hazard has been removed.

Drawing on its broad-based portfolio of services, VIA Solutions is able to deliver the **appropriate solution** to the problems set out above:

- Preliminary Investigation of the landfill
- Feasibility Studies
- careful Engineering of the Landfill Mining Process incl. logistics, excavation and transport
- Design, Supply and Operate a Treatment Facility for the proper separation and treatment of the excavated material, to prepare it for further treatment or final deposition

Considering the long-term cost of after-care and the impossibility of putting non-rehabilitated landfill sites to new uses, **Landfill Mining including Waste Stabilisation and Remediation of the site is the safest and most cost-efficient solution.**

After its Remediation the former landfill site can be put into new use:

- for Property Development
- for Infrastructure Development
- as new Landfill Volume



Having the practical experience of mining more than 20 Mio m³ landfill volume all over the world (Japan, S. Korea, Philippines, UAE, Austria, Czech Republic, Italy, Germany, Netherlands, Canada) makes VIA Solutions the Preferred Partner for the realization of such projects.





Landfill Aeration and Stabilisation

Our Landfill Aeration System prevents the formation of Methane and other odorous and hazardous landfill gases. Air is sucked in through a biofilter and forced into the landfill while the gas present in the landfill is extracted and purified by passing it through biofilters. Only this unique system allows a safe and unimpeded work on the landfill site.

This system not only **prevents odours from extracting once the Landfill body is opened during Landfill Remediation** but also **exhilarates the process of Stabilisation of the Landfill** and therefore, reduces the after-care costs of a landfill dramatically.



About VIA Solutions GmbH

VIA Solutions GmbH (VIAS) was established in January 2022, by people with decades of experience in Waste Management and plant design, construction and operation.

Originally formed as a Joint Venture between the former Owners of the Czech biogas plant APBB Cayan Holding and "the Goeschl Family". VIAS owns the Know How and Intellectual Property of the highly efficient treatment technology for Organic Waste OWT which has been in successful operation since 2008. Further, they have the long experience in sufficient Solid Waste Treatment and the mining of old landfills.

In the recent years VIA Solutions developed the technology to covert Biogas to other green products such as Green Hydrogen and is presently engaged to establish the first project worldwide using this innovative technology.

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