

LANDFILL REMEDIATION IN UKRAINE



Landfill Nr. 5 in Kiev (Source: Google Earth)

Presentation of feasibility study on the remediation of Landfill # 5 in Kiev

More than 130 municipal and Oblast representatives, as well as NGOs from the Kiev region, attended a conference in Kiev's Town Hall at which the feasibility study on the closure and remediation of Landfill # 5 was presented. The study includes measures for the collection and treatment of leachate, the capture of landfill gas for energy recovery and the sealing of the landfill.

A not inconsiderable portion of the municipal solid waste generated by Kiev's 2.8 million inhabitants is deposited at Landfill No. 5 near the village of Pidhirtsi - about 400,000 to 450,000 m³ per year. A total of 7,900,000 m³ of waste is stored at the 35 hectare site. In the feasibility study, technically and economically viable solutions for the collection and treatment of the accumulated leachate (1,000,000 – 1,500,000 m³) are outlined. In addition, the residual volume required to achieve a sustainable landfill cubature was calculated. The volume of landfill gas available for the generation of electricity and heat is approx. 2,200 m³ per hour.

The presentation of the study was followed by a lively discussion on the required implementation measures and timelines. From this discussion it became apparent that solutions similar to those planned for Kiev are of great interest to other landfill operators in Ukraine.

The study was conducted as part of the "Export Initiative Environmental Technologies" of the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety. The engineering firm BN Umwelt from Kremperheide, as lead contractor, was supported by the waste disposal and recycling network German RETech Partnership, the consulting firm Andreas von Schoenberg Consulting from Berlin and the landfill gas specialist AEU Alternative Energiesysteme und Umwelttechnik from Vinnytsia in the Ukraine.

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