

**Development of industrial area
(approx. 30 ha) on difficult sub-
soil, including construction of a
mechanic-biological waste
treatment plant Cröbern**

C&E · Consulting und
Engineering GmbH



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Project Objective: Construction of a mechanic-biological waste treatment plant in Cröbern

Location: Cröbern near Leipzig

Client: WEV GmbH **General Constructor:** HOCHTIEF AG / Linde AG

Year: 2003 - 2005 **Investment:** 70.000.000 Euro

Initial situation:

The West Saxon Waste Management and Processing Corporation constructed at a mechanical-biological waste processing plant with a capacity of 300,000 tons/year at the location of the Central Waste Deposit Cröbern. This complies with the regulation in waste-law, that as of 2005 no untreated wastes are allowed to be deposited. After completion in 2005 the facility belongs to the most efficient in Europe. Together with the Central Waste Deposit Cröbern the federal state of Saxony has secured depositing capacities and waste processing till far beyond the year 2020.



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Services provided:

General Design (Pre-Design, Design, Permit Design, Detailed Design) according to FIDIC

- Soil investigation and stabilisation and monitoring of the earthworks
- Geotechnical assessment
- Infrastructure planning
- Object Design
- Design of technical installation and monitoring of the reinforced concrete works
- Technical Specifications, Bill of Quantities
- Health and Safety Coordination
- Construction Supervision in compliance with FIDIC Red Book

The design of the facilities include:

- Planning of the drainage system with consideration of the industrial water regime of the central dump
- Establishment of a rain retention basin with derivative of the emergency overflow in the outlet ditch to the Pleiße; Transfer in closed building method and under-crossing of a railway track
- Underground preparation in the dumping area of a former open-pit coal mine
- Coordinated line planning of supply and disposal pipelines of all medium sections
- Construction of infrastructure (roads, footpaths, fence, integration of process related pipelines etc.)
- Construction of a vehicle scale for dump with connection to the remote capture system and data collection system of the central dump
- Building complex for Entrance, Administration, Laboratory
- Reception facility (splitting into organic and high energy containing waste)
- Sorting facility and mechanical processing
- Biological processing (fermentation)
- Planning of Storage areas/ Container handling areas
- Landfill for treated waste