



NIĞDE LANDFILL, BIOGAS POWERPLANT

TURKEY

convex gave engineering and design services for biogas calculation, energy recovery and production of electrical energy for Niğde Solid Waste Landfill which is located in the Middle of Anatolia Region in Turkey. Niğde Solid Waste Landfill divided into 3 lots. The 1st lot is in operation and the remaining 2 lots will be constructed in the upcoming years. The landfill in operation has a volume of 580.000 m³.

Following services were given by convex for this landfill:

- Before the study, required topographic data and existing site conditions were determined and collected with site visits and research work.
- Operational conditions of the existing landfill were examined and necessary improvements were suggested. The compatibility of suggestions were examined.
- The area that is planned for the biogas station and collector was examined.
- Gas collection, extraction systems and necessary equipment for electrical production were calculated and designed. The draft project was shared with the authorities.
- Meetings were organized with investors, the municipality and governmental authorities, approvals were obtained for the draft project.
- The as-built project and shop drawings were prepared and shared with all parties.
- Consulting and supervision services were given during the offer phase of the plant suppliers and during the construction works.
- After the works were finished on site, for inspection purposes, supervision services were given.



client:

MIAS-1 Enerji, Turkey

landfill volume:

580.000 m³

power plant capacity:

2,5 MW

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photos:

M. Gökçe

