

Mining - Geotechnical Project

Underground & surface mining of the lignite deposits at Prosilio mine, Kozani / Geotechnical design of access & transverse connection galleries

Western Macedonia, Greece

Project

Underground access and mining of the lignite deposits at Prosilio mine, Kozani / Geotechnical design of underground excavation and support of access & and transverse connection galleries.

Capital Cost (Capex)

Total cost: approx. € 5 m.

Project Schedule

Design: 2014 - 2015

Development - Mining: 2015 - 2018

Project Description

- Three (3) parallel access galleries, 200.0m length each.
- Five (5) transverse connection galleries, 200.0m each.

Geology

Lignite deposit, limestones, marls, clays and sandstones

Our Services

- Geotechnical evaluation of the available geotechnical data.
- Detailed design of underground excavation and support of three (3) parallel access galleries and five (5) transverse connection galleries.
- Detailed construction methodology of the underground galleries.
- Geotechnical monitoring of the project (instrumentation at the entrance portals and at the underground mining stretch).

Construction Details

- Underground mining with rooms and pillars method.
- Excavation and support categories – sections according to the in situ geotechnical conditions.
- Swellex type and fully grouted rockbolts.
- Shotcrete reinforced with steel wire mesh.
- Steel sets, LG or HEB.
- Spiles fully grouted.

Client

METE S.A.



View of the mining area



Progress of mining works



Entrance portals of the galleries