

Adularya Power Plant, Turkey

- Project Information-

Located in Eskisehir, the Adularya Project consists of Adularya lignite power plant with an installed capacity of 2 x 145 MW and a lignite mine. The Project was originally planned to be commissioned in 2014, but due to the technical difficulties during a testing phase, the Project has been delayed.

Power plant location



Technical parameters of the power plant

Installed capacity	2x145 MW
Annual operation	7,500-8,000 hours
Gross generation efficiency	39.3%
Net generation efficiency	35.0%
Net electricity generated	Over 1,700 GWh p.a.
Guaranteed purchase	943 GWh p.a. (55%)
Lignite consumption	2.0m tonnes p.a.

Key project highlights

- ▶ State-of-the-art lignite power plant close to commissioning
- ▶ Lignite mine adjacent to the power plant with sufficient reserves to cover whole lifetime of the power plant already in operation
- ▶ Both power plant and mine has been constructed with modern German, US, and Czech technology
- ▶ Power plant and mine comply with Turkish and EU environmental and safety requirements
- ▶ State support of local energy sources - subsidy scheme for lignite-fired power plants guaranteeing above market purchase price (285 TRY/MWh in 1Q2019)



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Lignite power plant

- ▶ The power plant consists of two units with generating capacity of 145MW each, equipped with lignite-fired double-circuit drum boilers with circulating fluidized bed, condensing steam turbines, desulphurisation and other comprehensive equipment for operation.
- ▶ The power plant is equipped with German and Czech technology compliant with both Turkish and EU environmental regulations.
- ▶ The Unit A has been already operating in a test phase in 2016 and the Unit B is close to technical completion and testing.
- ▶ Adularya holds the license required for operating a power plant and selling electricity in the market.



Lignite mine

- ▶ The lignite mine has proven reserves sufficient for the whole lifetime of the power plant. Moreover, additional reserves are expected outside of the explored fields as well.
- ▶ The field A is fully operational and equipped with modern US and German machinery and equipment. The mine complies with Turkish and international safety regulations.
- ▶ Adularya has currently a mining license for lignite usage in the power plant.

Ownership structure and investment loan information

Project Adularya is currently owned by Adularya Energy, belonging to Naksan Holding, which was formed for the purpose of Project development in 2007. Over EUR 700m has been invested into the Project, which has been partially financed by a loan provided by CEB and insured by EGAP. Since the second half of 2016, Naksan Holding is under administration of TMSF.

