

# Geothermal Exploration Business



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Geothermal Exploration Business operation license number located in Salihli district, approximately 55 km southeast of Manisa province, and covers an area of 4939.32 hectares.

Many geophysical studies have been carried out by different researchers in different years in the field. With the synthesis of these data, 8 different locations with the highest probability of the presence of hot fluid within the license area were determined.

There are 2 geothermal wells in the license area. The first of these is the Arma-1 (2,482 m) well drilled for research purposes. The second well drilled in the field and used for greenhouse heating is the D-1 (849 m) well.

There are many geothermal operation license fields adjacent to and in the vicinity of the operation license number 2015/04. There are more than 50 geothermal wells with temperatures ranging from 65 to 287 °C in these license areas. These wells are used in different fields such as electricity generation, greenhouse cultivation and residential heating.

With the Monte Carlo Simulation prepared for the license area, the possible thermal heat reserve of the area and the amount of power that can be produced were calculated.

Accordingly, the reproducible thermal heat reserve is calculated as  $2.3 \times 10^{15}$  kJ with 85% probability, 18.6 MWe with 95% probability, 25.5 MWe with 85% probability, and 57.0 MWe with 50% probability.

The reproducible thermal heat reserve was calculated by operating 10,000 times. With the Monte Carlo Simulation for the study area, it has been determined that the thermal heat value that can be produced in the reservoir will be between  $9.7 \times 10^{15}$  kJ and  $1.6 \times 10^{15}$  kJ in the 5%-95% confidence interval. Here, the most probable value was determined as  $4.9 \times 10^{15}$  kJ.

The electricity generation potential of the geothermal license area is planned according to the Monte Carlo simulation result for 22 years of production; the electricity generation potential was calculated to be between 112.2 MWe and 18.6 MWe in the 5%-95% confidence interval. It was concluded that this value was 57.05 MWe on average.

### Key Data

- YEKDEM price: 205.13 TL cent/kWh
- Application period: 15 years
- Domestic contribution price: 29.25 TL cent/kWh
- Domestic contribution validity period: 5 years

### TARGET PRICE

\$150,000,000

### BUSINESS TYPE

Renewable Energy

### COUNTRY

Turkey

### BUSINESS ID

L#20230575

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