

# Negócio de exploração geotérmica



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O número de licença de operação do Geothermal Exploration Business está localizado no distrito de Salihli, a aproximadamente 55 km a sudeste da província de Manisa, e cobre uma área de 4939,32 hectares.

Muitos estudos geofísicos foram realizados por diferentes pesquisadores em diferentes anos no campo. Com a síntese desses dados, foram determinados 8 locais diferentes com a maior probabilidade de presença de fluido quente na área da licença.

Há dois poços geotérmicos na área da licença. O primeiro deles é o poço Arma-1 (2.482 m), perfurado para fins de pesquisa. O segundo poço perfurado no campo e usado para aquecimento de estufas é o poço D-1 (849 m).

Há muitos campos de licença de operação geotérmica adjacentes e nas proximidades da licença de operação número 2015/04. Há mais de 50 poços geotérmicos com temperaturas que variam de 65 a 287 °C nessas áreas de licença. Esses poços são usados em diferentes áreas, como geração de eletricidade, cultivo em estufas e aquecimento residencial.

Com a Simulação de Monte Carlo preparada para a área da licença, foram calculadas a possível reserva térmica de calor da área e a quantidade de energia que pode ser produzida.

Dessa forma, a reserva de calor térmico reproduzível é calculada como 2,3×10<sup>15</sup> kJ com 85% de probabilidade, 18,6 MWe com 95% de probabilidade, 25,5 MWe com 85% de probabilidade e 57,0 MWe com 50% de probabilidade.

A reserva de calor térmico reprodutível foi calculada operando 10.000 vezes. Com a Simulação de Monte Carlo para a área de estudo, foi determinado que o valor do calor térmico que pode ser produzido no reservatório estará entre 9,7×10<sup>15</sup> kJ e 1,6×10<sup>15</sup> kJ no intervalo de confiança de 5%-95%. Aqui, o valor mais provável foi determinado como 4,9×10<sup>15</sup> kJ.

O potencial de geração de eletricidade da área de licença geotérmica é planejado de acordo com o resultado da simulação de Monte Carlo para 22 anos de produção; o potencial de geração de eletricidade foi calculado entre 112,2 MWe e 18,6 MWe no intervalo de confiança de 5% a 95%. Concluiu-se que esse valor era de 57,05 MWe em média.

### Dados principais

- Preço da YEKDEM: 205,13 centavos de TL/kWh
- Período de aplicação: 15 anos
- Preço da contribuição doméstica: 29,25 centavos de TL/kWh
- Período de validade da contribuição nacional: 5 anos

### TARGET PRICE

\$150,000,000

### BUSINESS TYPE

Energia renovável

### COUNTRY

Turquia

### BUSINESS ID

L#20230575

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