

# 지열 탐사 사업



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지열 탐사 사업 운영 허가 번호는 마니사에서 남동쪽으로 약 55km 떨어진 살리리 지역에 위치하고 있으며 면적은 4939.32헥타르에 달합니다.

이 분야에서 여러 해에 걸쳐 여러 연구자들이 많은 지구물리학적 연구를 수행했습니다. 이러한 데이터를 종합하여 면허 지역 내에 뜨거운 유체가 존재할 확률이 가장 높은 8곳의 위치를 결정했습니다.

라이선스 지역에는 2개의 지열 우물이 있습니다. 첫 번째 유정은 연구 목적으로 시추한 아르마-1(2,482m) 유정입니다. 이 밭에 시추되어 온실 난방에 사용되는 두 번째 우물은 D-1(849m) 우물입니다.

운영 허가 번호 2015/04에 인접하거나 인근에 지열 운영 허가 필드가 많이 있습니다. 이 라이선스 지역에는 65~287°C 범위의 온도를 가진 50개 이상의 지열 우물이 있습니다. 이 우물은 발전, 온실 재배, 주거용 난방 등 다양한 분야에서 사용됩니다.

면허 지역에 대해 몬테카를로 시뮬레이션을 준비하여 해당 지역의 가능한 축열량과 생산할 수 있는 전력량을 계산했습니다.

이에 따라 재현 가능한 열 열량은 85% 확률로  $2.3 \times 10^{15}$  kJ, 95% 확률로 18.6 MWe, 85% 확률로 25.5 MWe, 50% 확률로 57.0 MWe로 계산됩니다.

재현 가능한 열 방열량은 10,000회 작동하여 계산했습니다. 연구 지역에 대한 몬테카를로 시뮬레이션을 통해 저수지에서 생산할 수 있는 열량은 5%-95% 신뢰 구간에서  $9.7 \times 10^{15}$  kJ에서  $1.6 \times 10^{15}$  kJ 사이인 것으로 확인되었습니다. 여기서 가장 가능성이 높은 값은  $4.9 \times 10^{15}$  kJ로 결정되었습니다.

지열 면허 지역의 발전 잠재량은 22년간의 몬테카를로 시뮬레이션 결과에 따라 계획되었으며, 발전 잠재량은 5%-95% 신뢰 구간에서 112.2MWe에서 18.6MWe 사이로 계산되었습니다. 이 값은 평균 57.05 MWe라는 결론을 내렸습니다.

#### 주요 데이터

- YEKDEM 가격: 205.13 TL 센트/kWh
- 신청 기간: 15년
- 국내 기여금 가격: 29.25 TL 센트/kWh
- 국내 기부 유효 기간: 5년

#### TARGET PRICE

\$150,000,000

#### BUSINESS TYPE

재생 에너지

#### COUNTRY

터키

#### BUSINESS ID

L#20230575

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