

Negocio de exploración geotérmica



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El número de licencia de explotación del Negocio de Exploración Geotérmica está situado en el distrito de Salihli, a unos 55 km al sureste de la provincia de Manisa, y abarca una superficie de 4939,32 hectáreas.

Diferentes investigadores han realizado muchos estudios geofísicos sobre el terreno en diferentes años. Con la síntesis de estos datos, se determinaron 8 ubicaciones diferentes con la mayor probabilidad de presencia de fluido caliente dentro de la zona de la licencia.

Hay 2 pozos geotérmicos en la zona de la licencia. El primero de ellos es el pozo Arma-1 (2.482 m), perforado con fines de investigación. El segundo pozo perforado en el campo y utilizado para la calefacción de los invernaderos es el pozo D-1 (849 m).

Hay muchos campos de licencia de explotación geotérmica adyacentes y en las proximidades de la licencia de explotación número 2015/04. En estas zonas de licencia hay más de 50 pozos geotérmicos con temperaturas que oscilan entre 65 y 287 °C. Estos pozos se utilizan en distintos campos, como la generación de electricidad, el cultivo en invernaderos y la calefacción residencial.

Con la Simulación de Montecarlo preparada para la zona de licencia, se calculó la posible reserva de calor térmico de la zona y la cantidad de energía que se puede producir.

En consecuencia, la reserva de calor térmico reproducible se calcula en $2,3 \times 10^{15}$ kJ con un 85% de probabilidad, 18,6 MWe con un 95% de probabilidad, 25,5 MWe con un 85% de probabilidad y 57,0 MWe con un 50% de probabilidad.

La reserva de calor térmico reproducible se calculó operando 10.000 veces. Con la Simulación de Montecarlo para la zona de estudio, se ha determinado que el poder calorífico térmico que puede producirse en el yacimiento estará comprendido entre $9,7 \times 10^{15}$ kJ y $1,6 \times 10^{15}$ kJ en el intervalo de confianza del 5%-95%. Aquí, el valor más probable se determinó en $4,9 \times 10^{15}$ kJ.

El potencial de generación de electricidad de la zona de licencia geotérmica se planifica según el resultado de la simulación Monte Carlo para 22 años de producción; se calculó que el potencial de generación de electricidad estaba entre 112,2 MWe y 18,6 MWe en el intervalo de confianza del 5%-95%. Se concluyó que este valor era de 57,05 MWe de media.

Datos clave

- Precio YEKDEM: 205,13 TL cent/kWh
- Plazo de solicitud: 15 años
- Precio de la contribución doméstica: 29,25 TL cent/kWh
- Periodo de validez de la cotización nacional: 5 años

TARGET PRICE

\$150,000,000

BUSINESS TYPE

Energías renovables

COUNTRY

Turquía

BUSINESS ID

L#20230575

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