

Is a dual-vertical-well geothermal power system possible in the Gonghe basin?

In this work, a novel dual-vertical-well geothermal power system is proposed for the 2900-3300 m fractured granite reservoir according to the available geological data in the Gonghe Basin. The main objective is to fully evaluate the power generation potential by water circulating through the designed dual-vertical-well system over 30 years.

What is the productivity of Gonghe basin?

The temperature of the produced water from the reservoir in the Gonghe Basin is relatively stable. Thus, the productivity is approximately proportional to the flow rate of the produced water.

3.7. HDR power generation system

What is the power generated by a downhole thermoelectric power generation system?

The power generated by a downhole thermoelectric power generation system is the sum of the powers generated by all of the segments⁵¹. The output power of the i th segment with a length of L_i is: where L_i is the length of i th segment, m. Then, the total output power in a well is given by:

What is a whole-process system for safe geological development of HDR?

A whole-process system for safe geological development of the HDR and environment monitoring has been established based on investigation, monitoring, evaluation, prediction, and management in the PTS, which provides security for the power generation test of the HDR.

Can enhanced geothermal systems produce clean power?

In this paper, the conceptual model was established for a real geothermal field (e.g., the Gonghe Basin) to study the feasibility of clean power generation from an enhanced geothermal system. However, few assumptions may make some biases on the heat production prediction.

How many MW is a dual-vertical-well EGS power system?

For the designed dual-vertical-well EGS power system in the 30 years production period, the electricity generation ranges within 2.86-3.23 MW, the flow impedance ranges within 0.217-0.232 MPa/(kg/s), and the electric energy efficiency ranges within 13.88-18.47.

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