

عنوان مقاله:

geothermal power plant and utilization of the waste heat

محل انتشار:

ششمین همایش ملی انرژی (سال: 1386)

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خلاصه مقاله:

This paper presents the design process of geothermal power utilization for production of electricity and management of waste heat, from three geothermal wells with given enthalpies and mass flows. The project involves designing process of geothermal power plant according to 3 cycles named single flash, double flash and binary cycle. Calculations and simulations have been done with Engineering Equations Solver (EES) software. Optimization to find wellhead pressure and high-side pressure in binary cycle which gives the most power production also has been done for all cycles. Gas removal system was taken into account. Waste heat from three plants has been managed to be used in district heating system or to be used for additional binary cycle power production.

کلمات کلیدی:

Geothermal, Power cycles, Waste heat, efficiency, Gas removal system

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