

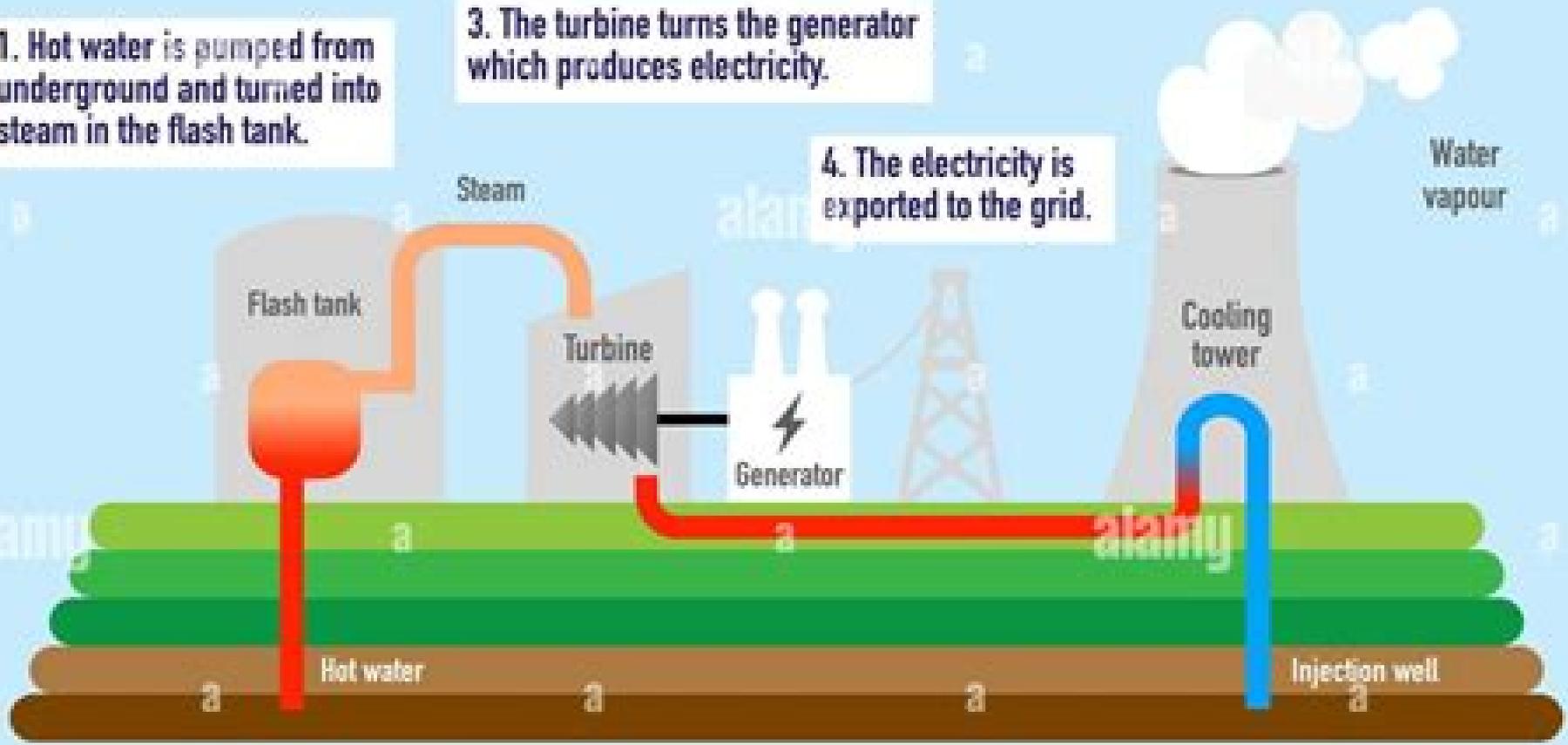
How geothermal power plants work

2. The steam turns the turbine.

1. Hot water is pumped from underground and turned into steam in the flash tank.

3. The turbine turns the generator which produces electricity.

4. The electricity is exported to the grid.



Geothermal Power

Victor M. Corman



Geothermal Power:

Geothermal Power Generation Ronald DiPippo, Luis Carlos Gutiérrez-Negrín, Andrew Chiasson, 2024-10-11 *Geothermal Power Generation New Developments and Innovations Second Edition* provides an update to the advanced energy technologies that are urgently required to meet the challenges of economic development climate change mitigation and energy security Edited by respected and leading experts in the field this book provides a comprehensive overview of the major aspects of geothermal power production Chapters cover resource discovery resource characterization energy conversion systems design economic considerations and a range of fascinating and updated case studies from across the world Geothermal resources are considered renewable and are currently the only renewable source able to generate baseload electricity while producing very low levels of greenhouse gas emissions thus playing a key role in future energy needs Provides readers with a comprehensive and systematic overview of geothermal power generation Presents an update to advanced energy technologies that are urgently required to meet the challenges of economic development climate change mitigation and energy security Edited by authorities in the field and contributed to by global experts in their areas Supports sustainability and the United Nations Sustainable Development Goals UN SDGs 7 9 11 and 13

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Thermodynamic Analysis and Optimization of Geothermal Power Plants Can Ozgur Colpan, Mehmet Akif Ezan, Onder Kizilkan, 2021-02-19 Thermodynamic Analysis and Optimization of Geothermal Power Plants guides researchers and engineers on the analysis and optimization of geothermal power plants through conventional and innovative methods Coverage encompasses the fundamentals thermodynamic analysis and optimization of geothermal power plants Advanced thermodynamic analysis tools such as exergy analysis thermoeconomic analysis and several thermodynamic optimization methods are covered in depth for different configurations of geothermal power plants through case studies Interdisciplinary research with relevant economic and environmental dimensions are addressed in many of the studies Multiobjective optimization studies aimed at better efficiency lower cost and a lower environmental impact are also discussed in this book Addresses the complexities of thermodynamic assessment in almost all operational plant configurations including solar geothermal and multigeneration power plants Includes an exemplary range of case studies from basic to integrated Provides modern optimization methods including exergoeconomic artificial neural networks and multiobjective particle swarm Covers environmental impact considerations and integration with renewable energy systems

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