

Development of high-power, continuously operating millimeter-wave generator and its application to deep geothermal heat, etc. (Kyoto Fusioneering Ltd.)



City	Year of Establishment	Founder
Ota-ku, Tokyo	2019	Satoshi Konishi

Partner VC	Latest round of Fundraising	Valuation
Non-Disclosure	Non-Disclosure	Non-Disclosure

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○ Business Plan

The development of a high-power millimeter-wave generator gyrotron is desired to speed up drilling and reduce costs, which is a challenge for deep geothermal development. This project aims to develop and commercialize a high-power, continuous operation high-frequency millimeter-wave generator, and to accelerate the commercialization of deep geothermal power generation or supercritical geothermal power generation.

○ Research Outline

This project will work on the development and commercialization of a gyrotron capable of high output and continuous operation and a power source for continuous operation that can be adapted to deep geothermal development by achieving the following.

- (1) Development of a high output gyrotron and its demonstration test
- (2) Implementation of continuous operation of the gyrotron and demonstration of its application to geothermal development
- (3) Cost reduction through simplification of gyrotron design

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Energy & Infrastructure	STS 2024～2026FY	JPY 499 million	Non-Disclosure

○International collaborative technology demonstration
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