

World's First Compact Fusion Heater Prototype Using a New Light Hydrogen Fusion Principle

New Hydrogen Fusion Energy Inc. exhibited a prototype room warmer by new light hydrogen fusion energy, shown live at the Shin Aichi Creative R&D Exhibition

TOYOTA-CITY, AICHI, JAPAN, August 26, 2026 /EINPresswire.com/ -- The prototype is based on the 4H/TSC WS Fusion Theory proposed by Akito Takahashi, Professor Emeritus at The University of Osaka and Chief Technical Advisor to New Hydrogen Fusion Energy Inc.

According to the company, the system harnesses heat generated through a light hydrogen fusion reaction based on a new principle. The prototype was demonstrated to visitors at the exhibition, which was held on June 4-5, 2026.

During the technical session, the company presented its approach to fusion-based heating and conducted a live demonstration of the prototype room warmer.

Exhibition and Presentation Highlights

Photo: Exhibition display featuring the message, "We generate new energy without using fossil fuels."



Exhibition: We generate new energy without using fossil fuel



Photo: The presentation lecture attracted a large audience.

Visitors had the opportunity to experience the fusion heater room warmer firsthand by touching the unit and feeling the heat it generated.

According to the company, no radiation was detected from the room warmer, allowing it to be operated in a wide range of environments.

Photo: The presentation lecture attracted a large audience.

Poster: Overview of the New Fusion Principle and Compact Fusion Room Warmer

Exhibition and Prototype
Demonstration of the New Fusion Principle and Compact Fusion Heater for Room Warming

Photo: Compact room warmer developed by New Hydrogen Fusion Energy Inc. From left: temperature recorder, fusion room warmer, and radiation detector.

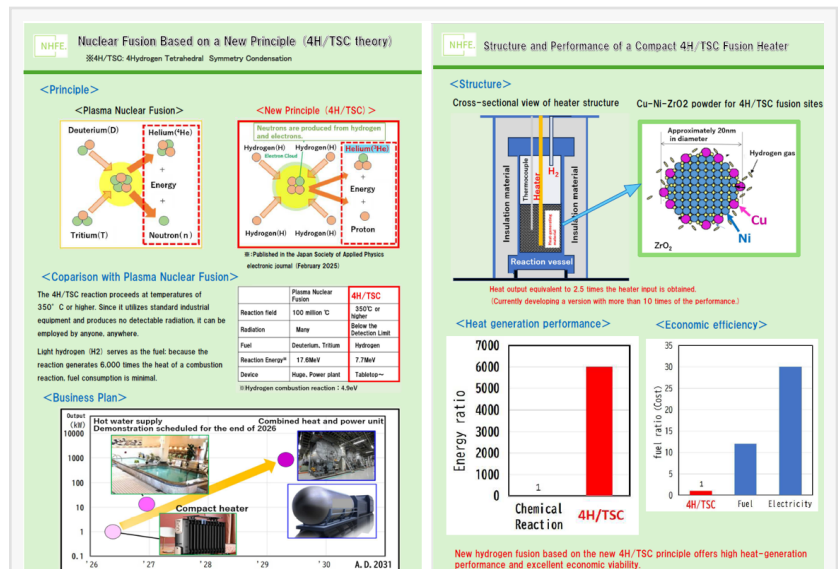
Prototype Compact Fusion Heater Room Warmer Specifications

- Dimensions: 220 mm in diameter × 600 mm in height
- Power output: 500 W

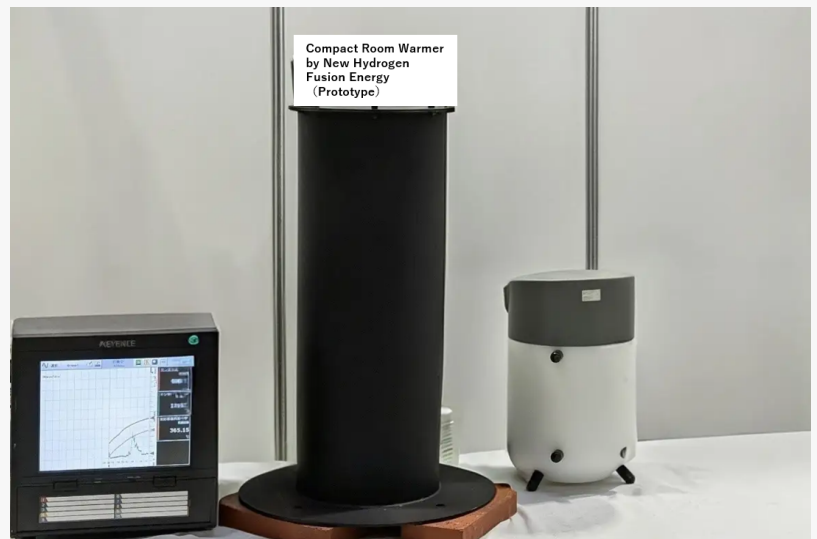
This is 2.5 times the input power of the 200 W joule-heater.

The output can be adjusted by changing the amount of heat-generating material and the joule-heater input.

- Radiation: No radiation detected
- Estimated energy cost:



Poster: New Fusion Principle and Compact Fusion Heater Overview



From left: Temperature recorder / Fusion heater / Radiation detector

Approximately one-tenth the cost of operating a kerosene heater and one-thirtieth the cost of operating an electric heater.

According to the company's estimates, the prototype is an energy-efficient room warmer with significantly lower operating costs than conventional heating systems.

Commercialization

Commercialization of the prototype is currently under consideration.

Future Development

As a fusion-energy startup, New Hydrogen Fusion Energy Inc. plans to scale up the technology and develop larger systems, including high-capacity water heaters and combined heat and electric-power generation systems, also known as CHP systems.

The company states that it will continue accelerating research and development aimed at contributing to solutions for global warming through next-generation fusion-energy technologies.

New Hydrogen Fusion Energy Inc. welcomes support from around the world and is seeking both investment partners and strategic collaborators.

Join Our Team

New Hydrogen Fusion Energy Inc. is recruiting individuals who share its vision of developing innovative energy technologies.

Executive Positions

Chief Operating Officer (COO)

Chief Technology Officer (CTO)

Chief Financial Officer (CFO)

Technical Positions

Materials Engineering

Heat Engine Engineering

Manufacturing Engineering

Manufacturing Positions

The company is also recruiting personnel for manufacturing-related positions.

Company Information

Company Name:

New Hydrogen Fusion Energy Inc.

Representative:

Joji Hachisuka, President & CEO

Chief Technical Advisor:

Professor Akito Takahashi, Professor Emeritus, The University of Osaka

Established:

April 12, 2024

Business Activities:

Research and development of new hydrogen fusion-energy technologies, and the manufacture and sale of thermal power modules

Head Office:

2-1-1 Koromo-cho, Toyota City, Aichi 471-0023, Japan

Research Facility:

Location undisclosed

Telephone:

+81-565-77-3777

Website:

<https://www.nhf-energy.com/>

Fumio Shimizu

New Hydrogen Fusion Energy Inc.

+81 90-1281-1478

ffumioshimizu@nhf-energy.com

Fumio Shimizu

New Hydrogen Fusion Energy Inc.

+81 90-1281-1478

ffumioshimizu@nhf-energy.com

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