

The introduction of Helical Fusion Co., Ltd.

October, 2023

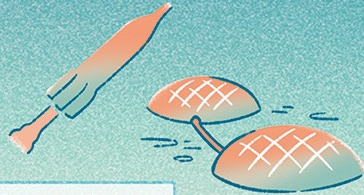


VISION

“Humanity evolves with nuclear fusion”

With our helical fusion reactors,
we will create a sustainable and stable energy source that will
enable the coexistence of humans and the Earth
for the next million years.

Helical Fusion



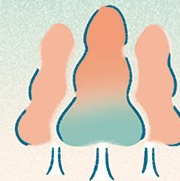
Space Living



Energy Self-Sufficiency



World Peace



Decarbonization



Hydrogen Society

Team



**Junichi
MIYAZAWA**

Co-Founder, Co-CEO
Head of R&D



**Takaya
TAGUCHI**

Co-Founder, Co-CEO
Head of Business/Finance



Our Goal

2034

the world's first steady-state
fusion reactor

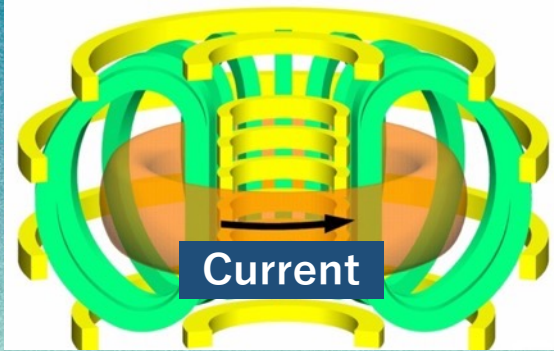
Why us? - History

We are a spin-out company from the national institute on which the Japanese government has spent **decades and billions of dollars.**



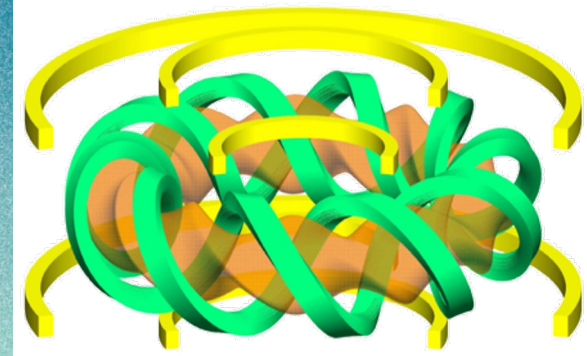
Why us? - Stable Operation

Tokamak



- Simple in structure, but quite difficult to operate continuously.

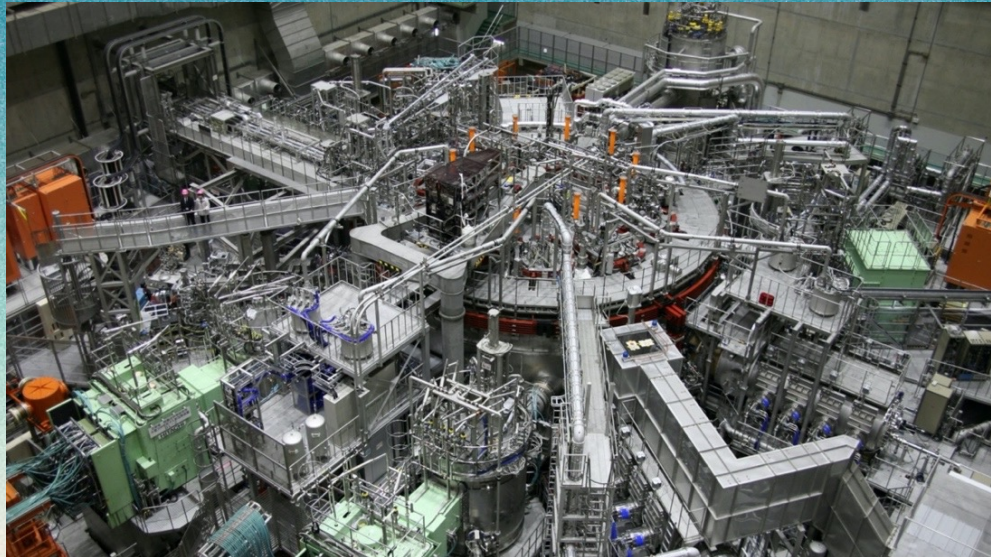
Helical



- **Complex in structure, but good for operation and maintenance.**
→ **Suitable for power generation**

Why us? - Achievement

“LHD” is **the only device in the world** which has achieved 100 million degrees Celsius and plasma duration time for over 3,000 sec.



Large Helical Device (LHD)
at National Institute for Fusion Science (Japan)

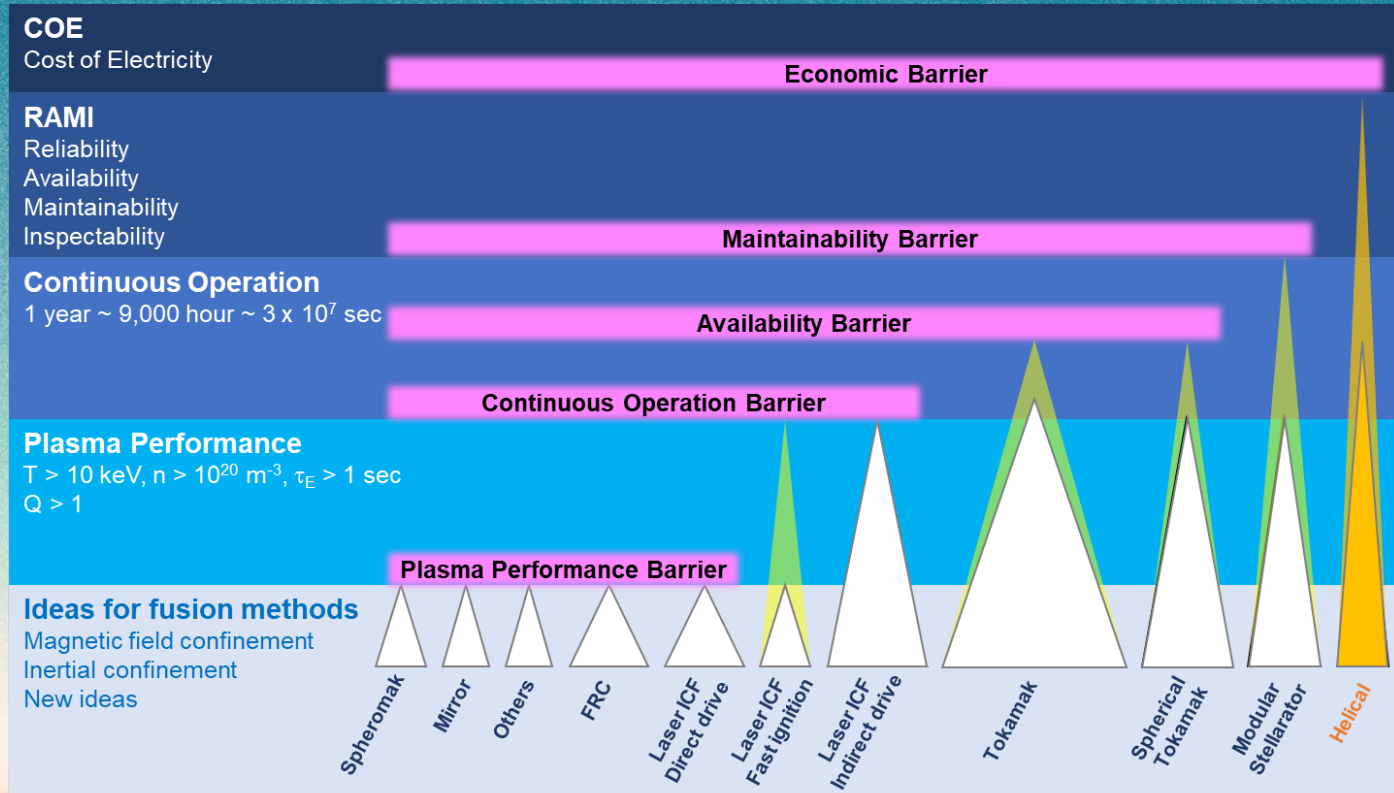
Why us? - Technological Maturity

We have already demonstrated the most challenging technology, plasma.

Milestones	Done	Doing	To Do
Plasma Performance	●		
Plasma Duration Time	●		
Engineering Technologies *High Temperature Superconductor, Liquid Blanket, etc.		●	
Construction of Prototype			●
Operation of Prototype			●
Construction of First Pilot Plant			●
Operation of First Pilot Plant			●

Why us? - Comparison of Fusion Methods

Only helical can overcome technical barriers

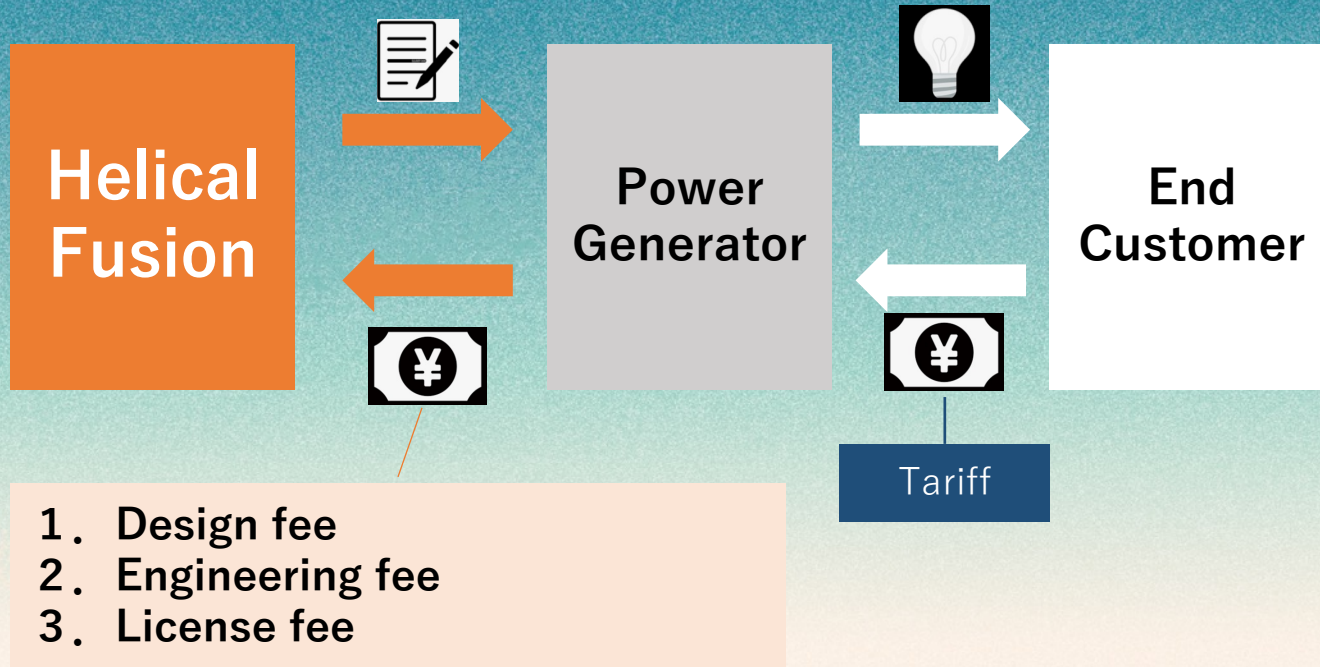


Business/R&D Plan



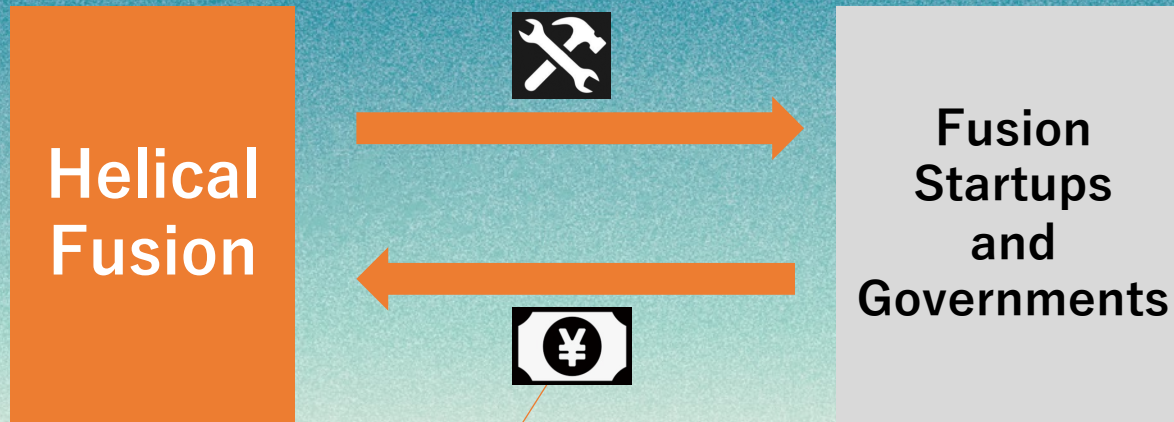
Business Model A: 2028-

Provide design of fusion reactor, and core technologies



Business Model B: 2025-

Provide elemental technologies to fusion startups and Governments.



1. License fee
2. Joint research and development fee

Let's start a revolution with

