Fusion Energy Innovation Strategy



Deputy Director,
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WHAT STRATEGY? -Toward Commercialisation-

<u>UK</u>

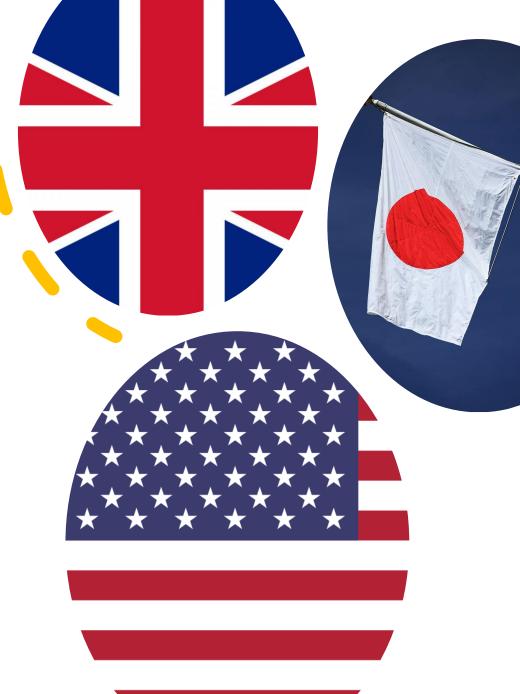
 Towards fusion energy: the UK fusion strategy (2021)

<u>U.S.</u>

 A Bold Decadal Vision for Commercial Fusion Energy (2022)

JAPAN

- Excellent technologies & talents obtain through ITER project etc.
- Missing a Compass to guide companies, academia and the government



The National Strategy

VISION

Toward realization of fusion energy,
-the world's next generation energy"Commercialization of fusion energy"
by Seizing the winning market edge with
technological superiority

APPROACH

A multifaceted approach

- The current approach (ITER to JA-DEMO==> Commercial Use)
- New approach (commercialization)

BASIC CONCEPTS

- Developing the Fusion Industry
- Developing Fusion Technology
- Framework for promoting the Strategy

Decision Body of Strategy

The Integrated Innovation Strategy Promotion Council (Members: Chief Cabinet Secretary and all the other Ministers)

Developing the Fusion Industry

Visualization

- Early realization of JA-DEMO
- Clarification of targets with technology, market opportunity maps

Connections

Establishment of Fusion Industry Council of Japan

Fostering

- Launch a new program to support Startups
 (About \$50M/5years. Open call for applications this summer.)
- Discussion on safety regulations through Agile Nations Fusion Energy WG
- Formulation of basic ideas on ensuring safety based on inherent safety of fusion energy

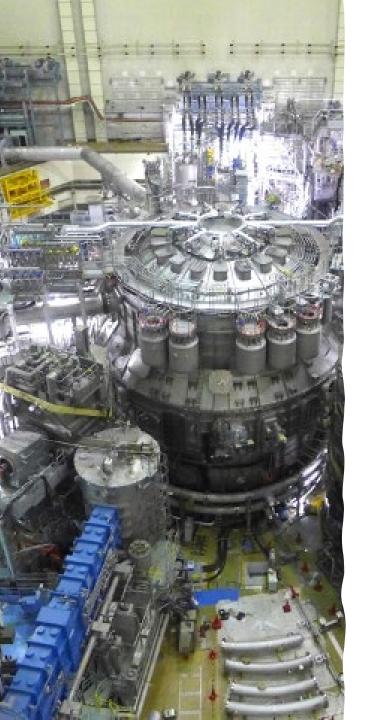
Developing Fusion Technology

Accelerating the Current Approach

- Launch a new program to accelerate R&D of JA-DEMO
- Acquisition of key technologies through ITER Project/BA Activity

New Approach; "Diversity"

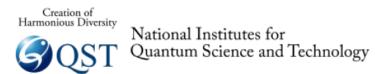
- •Launch a new program to cover enabling technologies that will dramatically improve economy and performance. Promote International joint research and foster young researchers.
- Promotion of Action Plan for JA-DEMO development by incorporating new technologies



Promoting the Strategy

Research to Innovation

Establish Fusion Technology Innovation Hub in QST



Human Resource

Create Fusion Energy Educational Programs

Public Acceptance

 Conducting outreach activities to deepen understanding of citizens

Thank you for listening

Documents

Fusion Energy Innovation Strategy
 https://www8.cao.go.jp/cstp/fusion/230426_strategy.pdf

 Overview of Fusion Energy Innovation Strategy <u>https://www8.cao.go.jp/cstp/fusion/230426_overview.pdf</u>

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