





#### Vision

Canada is internationally recognized for its contributions to fusion energy production and uses

### Mission

To mobilize human, financial, and other resources for the participation of Canadians and Canadian enterprises in first generation fusion energy systems and uses, with the objective of creating economic, environmental and social benefits

## Fusion Energy Council of Canada

History



2011 Alberta Council of
Technology – Fusion Technology
2013 ABCTech special project
"review status of fusion energy"
STATUS OF FUSION ENERGY: Impact &
Opportunity for Alberta

2016 Fusion Energy 2030:
Roadmap for Canada
2016 Alberta/Canada Fusion
Energy Alliance – registered in AB
2020 Fusion Energy Council of
Canada – registered and
expanded its Board to 15 members
to ensure representation from
across Canada

**2021** established Advisory Board

# Fusion Energy Council of Canada

## Activities



- Provided input to a draft fusion strategy document report not yet published under the auspices of CNL
- Tritium Focus Group, Chalk River,
   ON contributor to Tritium 2025
   in Ottawa
- Fusion Fuel Cycle Workshop, Charlotte, NC
- FusionMatters Canada
   Newsletter 12 September 2023
- AGM presenters
- IAEA Fusion Energy Conference, London, UK



### Advisory Board



Allan A Offenberger, PhD
Past President, Fusion Energy
Council of Canada
Professor Emeritus of Electrical &
Computer Engineering at the
University of Alberta



Dennis G. Whyte
Hitachi America Professor of
Engineering;
Director, MIT Plasma Science and
Fusion Center
Professor, Department of Nuclear
Science and Engineering



Robert Fedosejevs, PhD, P.Eng
Past Director, Fusion Energy Council of
Canada
Professor of Electrical & Computer
Engineering at the University of Alberta



E. Michael Campbell
Director, Laboratory for Laser
Energetics, University of Rochester

## Collaboration Canada

- Canadian Nuclear Society
- Canadian Nuclear Laboratory
- General Fusion
- University of Alberta

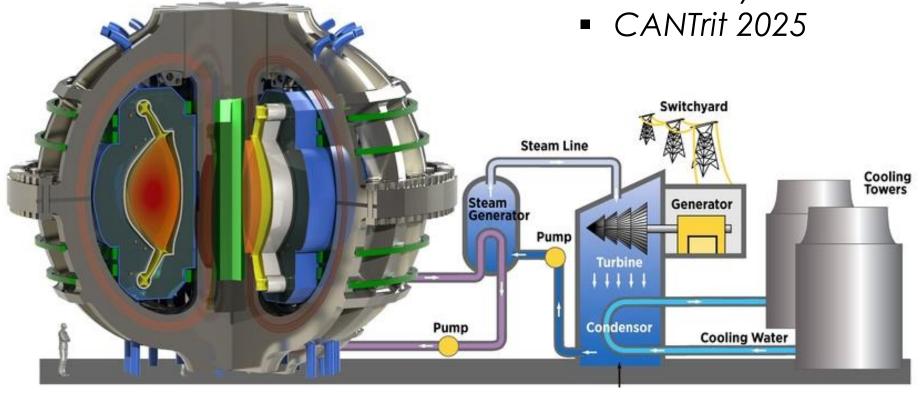
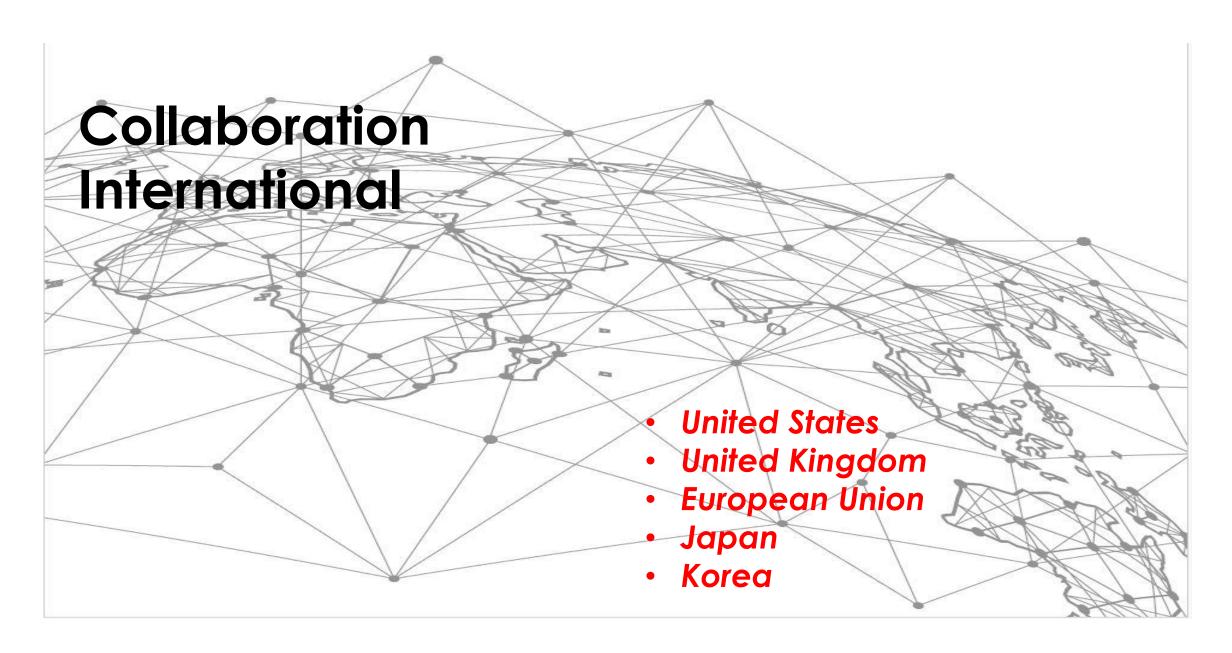


Image downloaded from https://news.mit.edu/2018/nas-report-right-path-fusion-energy-1221

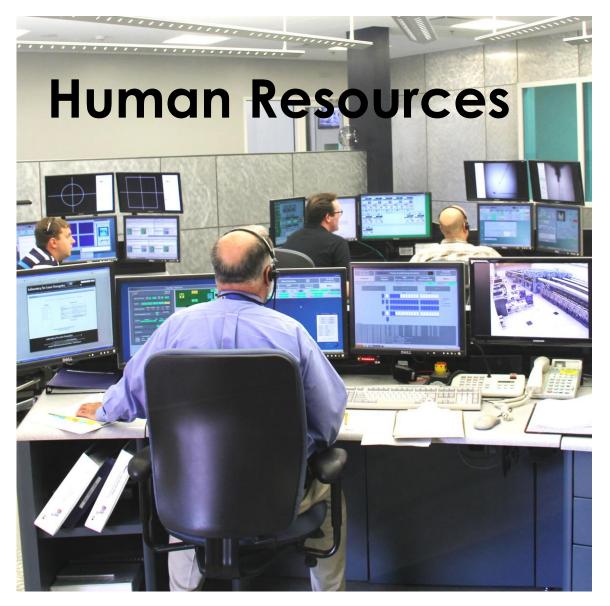


# Creativity & Deployment

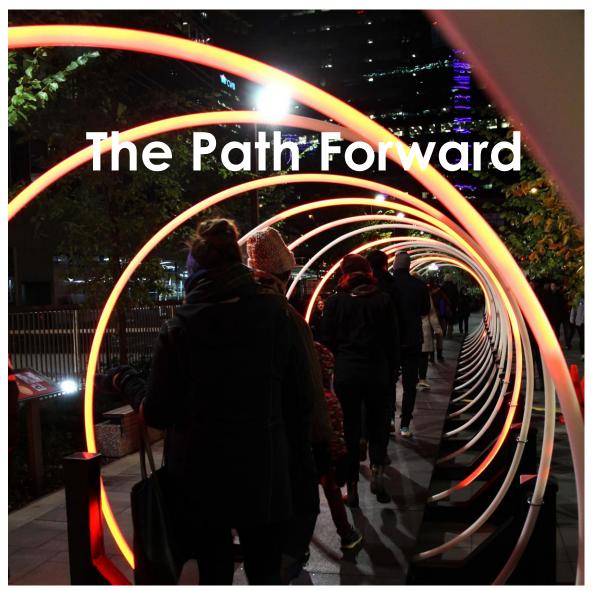
"Creativity is intelligence having fun!"

**Albert Einstein** 

- Deuterium-tritium fuel cycle
- Procurement of feedstock for DT fusion critical for start-up
- Supply chain procurement
- Conversion to heat / electricity
- Role of Utilities
- Safety
- Security
- Sustainability
- AI (Canadian Hubs)
- Social economic realities
- Etc.



To be successful the fusion energy ecosystem needs researchers, students, government policy makers and funders, entrepreneurs, investors, and a robust supply chain



- Scale-up fusion processes with emphasis on long term operation
- Collaboration at international levels
- Developing creative and talented people
- Engage with private sector companies globally, Canadian governments at all levels and academia

If we don't come to work every day and think about the future ...

there will be plenty of time to reminisce about the past We invite private sector companies, organizations and individuals to join us



fusionenergycanada.ca