

NEA Workshop

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October 7, 2021



Industrial Decarbonization

Industrial Revolution – Part 2

- Since the 1800s, industrial heat has been produced primarily with fossil fuels
- Today, biomass and some renewables are in use
- Industrial heat makes up 2/3 of industrial energy demand and most of industrial CO2 released to atmosphere
- Demand continues to increase in developed and developing countries

To achieve Net Zero goals:

Replace other means of heat production with nuclear



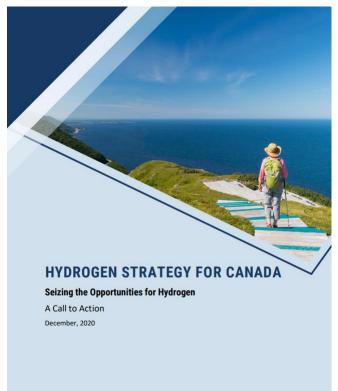
National Strategies

A Call to Action:
A Canadian Roadmap for Small Modular Reactors



SMR Action Plan

Hydrogen strategy

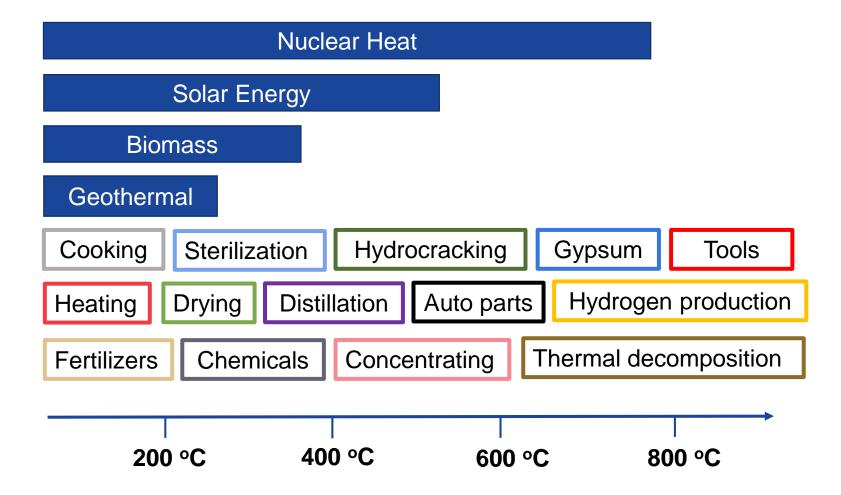


Provincial support to SMR development and deployment





SMRs' Potential to Enable Industrial Decarbonization



COG's Role: Excellence & Innovation Through Collaboration



Founded in Canada in 1984

45 operating CANDU units across 7 countries, worldwide

- ✓ Canadian technology with international reach
- ✓ Between \$60-\$70 million annually in R&D and memberinitiated projects
- ✓ Private, not-for-profit corporation
- ✓ Enables safe, reliable, costeffective and environmentallysound operation through knowledge and resource sharing

CANDU and Beyond
Performance Excellence
and Industry
Sustainability

