

COMMENCEMENT OF FULL-SCALE FEASIBILITY STUDY TO DEVELOP CLEAN FUELS SUPPLY CHAIN FROM CANADA

7th April 2023

The Kansai Electric Power Co., Inc.

The Kansai Electric Power Co., Inc. (“Kansai”), in collaboration with Canadian energy infrastructure company, ATCO Ltd. (“ATCO”), has commenced a full-scale feasibility study to develop an integrated clean fuels supply chain from Canada.

This study will examine a series of business segments coming together to form the supply chain, including production of clean fuels (blue hydrogen or blue ammonia^{*1}) from natural gas in inland Canada, transportation to the west coast, and shipping to Japan.

The clean fuels will be produced using a highly energy efficient ATR^{*2} process at the proposed site near Edmonton, Alberta, and will be transported by sea from Canada’s west coast to Japan for utilization in thermal power plants and other locations.

Within this joint feasibility study, ATCO’s main role is the study of clean fuels production, inland transportation, and export terminal in Canada. Kansai’s main role is the study of shipping and import terminal in Japan.

Kansai is committed to its endeavor to form an optimal clean fuels supply chain with the view of creating a ‘zero-carbon society’ in Japan. This is being done with the ultimate goal of achieving zero carbon emissions for our own customers and broader society.

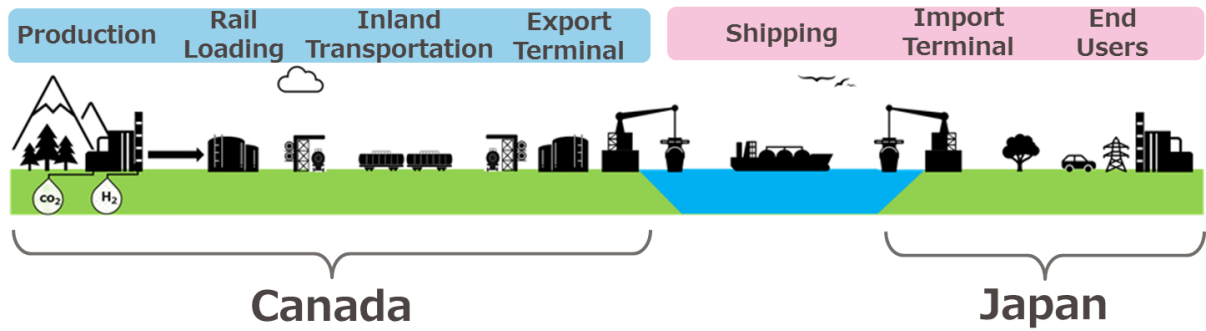
*1: We will compare production costs and other factors in our selection of either blue hydrogen or blue ammonia before making a final investment decision.

*2: Auto Thermal Reforming

Appendix: Outline of “FEASIBILITY STUDY TO DEVELOP CLEAN FUELS SUPPLY CHAIN FROM CANADA”

Outline of “FEASIBILITY STUDY TO DEVELOP CLEAN FUELS SUPPLY CHAIN FROM CANADA”

1. Image of Supply Chain

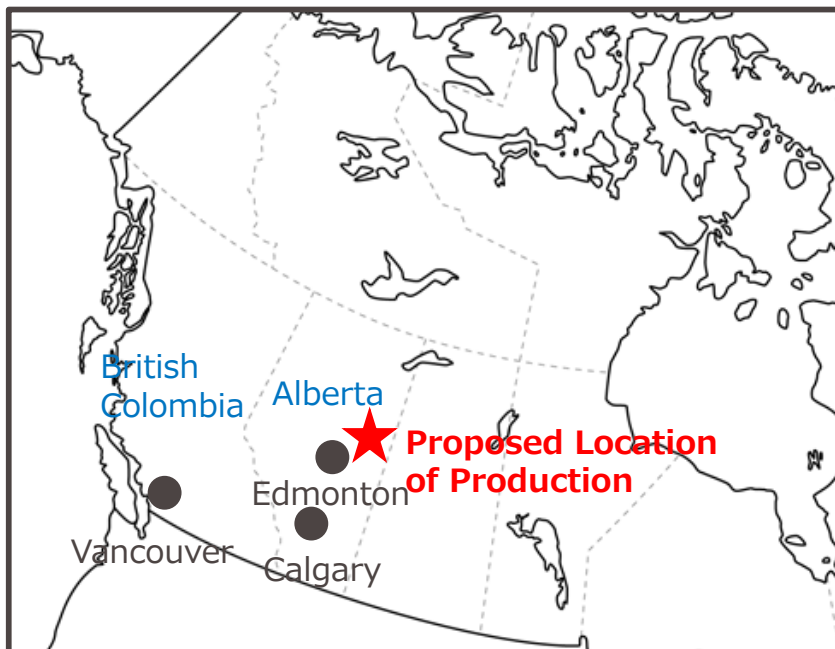


<Main Role of each company >

ATCO	Study of clean fuels production, inland transportation, and export terminal in Canada
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Kansai	Study of shipping and import terminal in Japan
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2. Locations



3. Outline of Each Company

[ATCO Ltd.]

Headquarters : Calgary, Alberta
Year Established : 1947
Representative : Nancy Southern, Chair and Chief Executive Officer
Main Business : Energy and Energy Infrastructure, Water, Structures and Logistics,
Transportation and Real Estate.
HP : <https://www.atco.com/>

[The Kansai Electric Power Co., Inc.]

Headquarters : Osaka City, Osaka Prefecture
Year Established : 1951
Representative : Nozomu Mori, Director, Representative Executive Officer, President
Main Business : Electric power, heat supply, telecommunications, gas supply.
HP : <https://www.kepco.co.jp/>

4. Site Scene

Production Area of
Clean Fuels



Survey of export
port area

