

Hokkaido Electric Power Co., Inc. | Overview

Hokkaido Electric Power Co., Inc. Transition Link Loan

■ Corporate Profile

Industry	Electricity/Gas
Location	Japan
Business	Founded in 1951. Annual power supply is approximately 33 billion kWh (FY2021, including power received from other companies). As the HEPCO Group, develops local businesses based in Hokkaido.

■ Loan Outline

Borrower	Hokkaido Electric Power Co., Inc.
Structuring Agent	Mizuho Securities Co. Ltd.
Financier	Development Bank of Japan Inc. MUFJ Bank, Ltd.
Evaluation Agency	DNV BUSINESS ASSURANCE JAPAN K.K.
Amount Borrowed	NA
Contract Date	March 2023

Alignment with the Four Basic Guideline Elements*

Element 1	<ul style="list-style-type: none"> Transition Strategy: HEPCO Group announced its "Aim for Carbon Neutrality by 2050" in April 2021, identifying the supply side, demand side, and network as the pillars to achieve its goal. Governance: Discussions and decision-making, including on climate change measures, are conducted by the Executive Committee, composed of executive officers and others. The company also established an Environmental Committee chaired by the president.
Element 2	<ul style="list-style-type: none"> The company identified its commitment to "carbon neutral 2050" as an environmental materiality.
Element 3	<ul style="list-style-type: none"> Hokkaido Electric Power's strategy is consistent with METI's roadmap. SPTs are consistent with Hokkaido Electric Power's targets for FY2030, which are more ambitious than those in the 6th Strategic Energy Plan of METI.
Element 4	<ul style="list-style-type: none"> The company pledged to invest a total of more than 50 billion yen by FY2030 in priority new businesses, including those in the decarbonization sector, which expects future growth.

Candidates for Uses of Proceeds

Eligibility Criteria	Project Overview
Renewable energy	<ul style="list-style-type: none"> Development, construction, operation, and upgrade of hydro, solar, geothermal, wind, and biomass power Restarting nuclear power plants, improving and maintaining safety Building supply chains for hydrogen production and utilization Abolition of inefficient thermal power plants, construction of high-efficiency thermal power plants Utilization of hydrogen, ammonia and biomass R&D, demonstration, and implementation for utilization of CCUS
Nuclear	
Hydrogen	
Thermal	
Promotion of electrification and energy saving	<ul style="list-style-type: none"> Various investments to promote electrification and energy saving
Electricity transmission and distribution	<ul style="list-style-type: none"> Upgrading and strengthening power transmission and distribution networks (including inter-regional interconnection lines) and making supply and demand operations more advanced to increase the introduction of renewable energy

KPI/SPTs

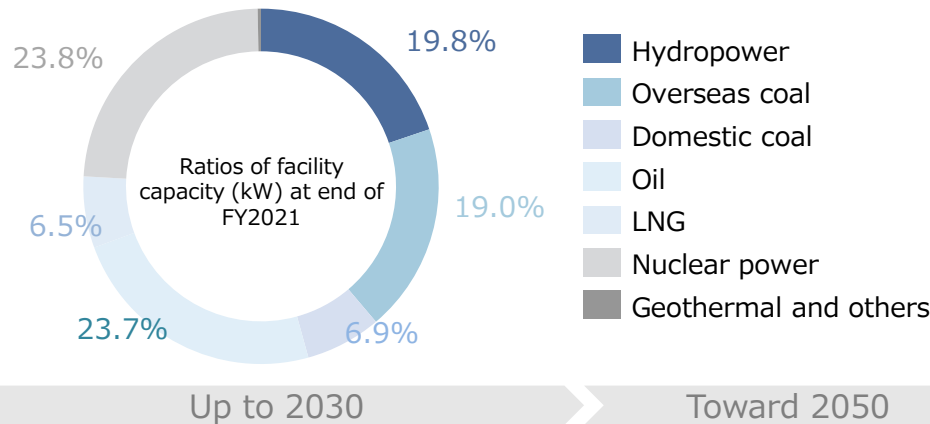
KPI/SPT :
2030 (compared to FY2013)
Power generation sector
emissions: -50% > The 6th Strategic Energy Plan
 46% reduction in FY2030

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Transition Strategy and Governance (Element 1)

Transition Strategy

- Considering Hokkaido's regional characteristics, the project will support **supply side** efforts, including increasing the introduction of renewable energy
- It will also work on **network** construction and **demand side** electrification.



Supply side

- Expansion of renewable energy
- Early restart of nuclear power
- Small-scale production of hydrogen
- Decommissioning of aging thermal power plants
- Participation in CCUS demonstrations and acquisition of knowledge

Demand side

- Electrification of homes, businesses, and transportation sector, promotion of energy saving, utilization of hydrogen, etc.

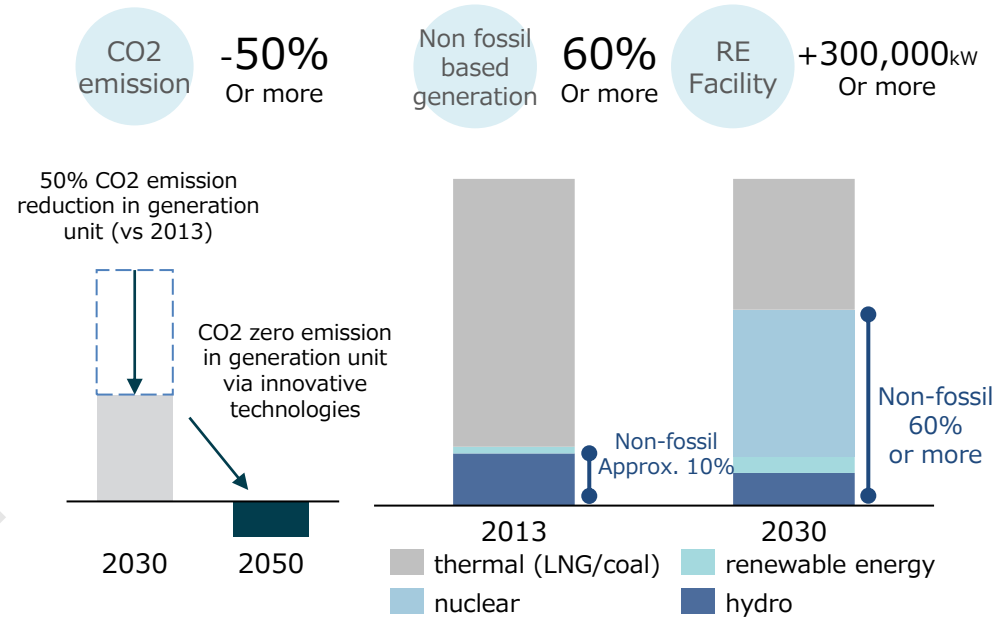
Network

- Increased renewable energy connections
- Advancement of supply and demand operations
- Shinshin Kitahon Unkai (off-path supply of renewable energy)

Further promotion of decarbonization efforts and full-scale introduction of technology

Targets

*following figures are illustrative



Key Points

- Established three pillars of "supply side," "demand side," and "network" for decarbonization including efforts related to targets for renewable energy expansion and the ratio of non-fossil power sources.
- Supply side/thermal power includes the decommissioning of inefficient thermal power plants, with consideration to just transition, such as considering impacts on regions of power plant locations.
- In parallel with the restart of Tomari Nuclear Power Station, the aim is to **change the power mix** based on the power source development plan by **expanding renewable energy and making thermal power generation more adjustable**.

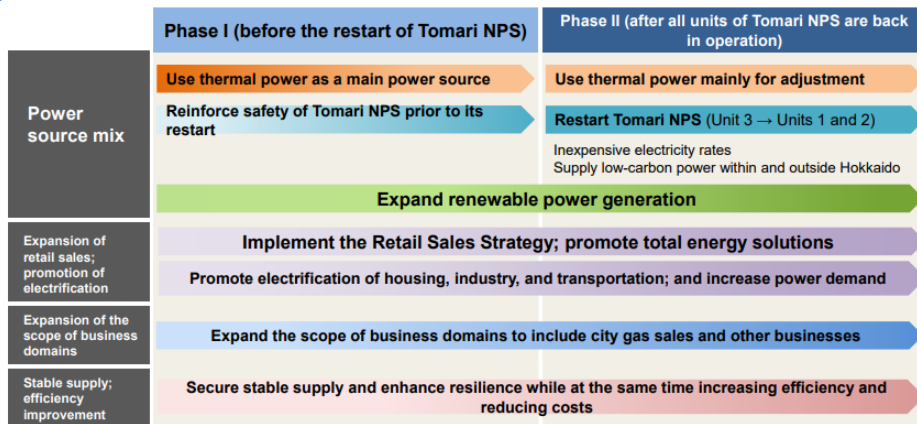
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Transition Strategy and Governance (Element 1)

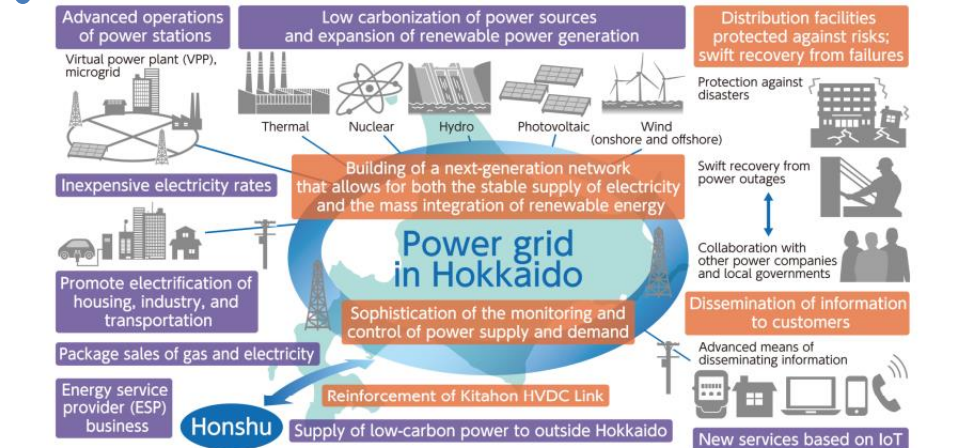
Transition Strategy

- Aims sustainable business growth with Tomari Nuclear Power Station restart in the 1st and 2nd phase of HEPCO Group Management Vision 2030.
- Develop an electricity business that improves the stability of supply and resilience, as well as environmental friendliness and convenience, through both the retail and power generation divisions and the network.**

HEPCO Group Management Vision 2030

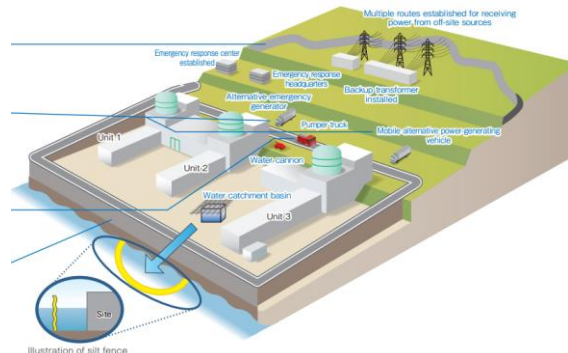


Outline of Future Electricity business



Nuclear Power Station (Tomari/2,070,000kW)

- Restarting nuclear power plants is important from the perspectives of stable energy supply, economic efficiency, and environmental compatibility.
- In order to ensure safety for restarting nuclear power plants, the "Quality Policy for Nuclear Power Generation" and various measures have been implemented.



Phase out schedule for Thermal Power Stations

	Station	Feedstock	Capacity	#	Output	Since	Location
Expected for demolition	Sunagawa	Coal	250,000 kW	3rd	12.5万kW	1977.06	Sunagawa-shi
				4th	12.5万kW	1982.05	
Expected for suspension	Date	Fuel oil	700,000 kW	1st	35万kW	1978.11	Date-shi
				2nd	35万kW	1980.03	
Expected for demolition	Naie	Coal	350,000 kW	1st	17.5万kW	1968.05	Sorachi-gun Naie-cho
				2nd	17.5万kW	1970.02	

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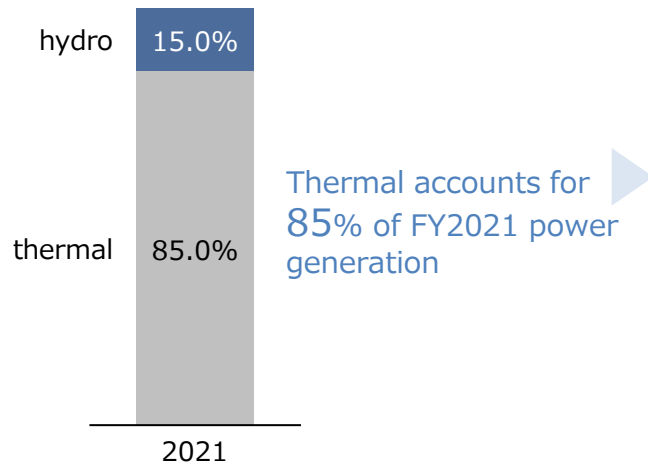
Science-based Targets and Pathways (Element 3) and alignment with the SLLP

Alignment with the SLLP

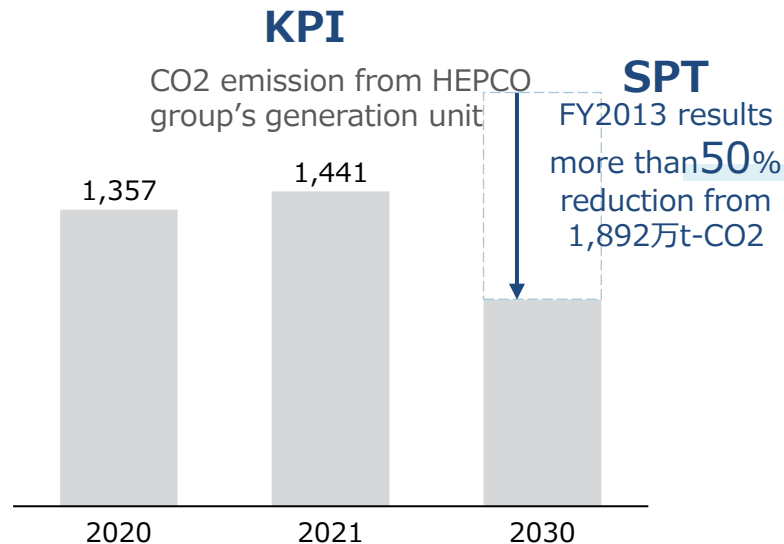
Selection of KPI	<ul style="list-style-type: none"> KPI is set in relation to environmental targets (materiality). It is set as the CO2 emission for power generation unit. 	Loan Characteristic	<ul style="list-style-type: none"> Financial characteristic : step up/down of interest or donation Structural characteristic : set for each finance (SPTs, dates) Fallback mechanisms : will not set other SPTs as risks of not being able to observe or calculate are small.
Calibration of SPTs	<ul style="list-style-type: none"> Set SPTs are more ambitious than the science-based 6th Strategic Energy Plan's 46% reduction in FY2030 (59% non-fossil energy). 	Reporting	<ul style="list-style-type: none"> Frequency and term : at least once a year, annually until the last trading date Disclosure : report of HEPCO group or website, borrowers for loans Contents : results of KPI/SPTs etc
		Verification	<ul style="list-style-type: none"> Frequency and term : at least once a year, annually until the last trading date Disclosure : report of HEPCO group or website, borrowers for loans Contents : KPI

KPI/SPTs

Power generation ratio



CO2 emission from generation unit



The 6th Strategic Energy Plans

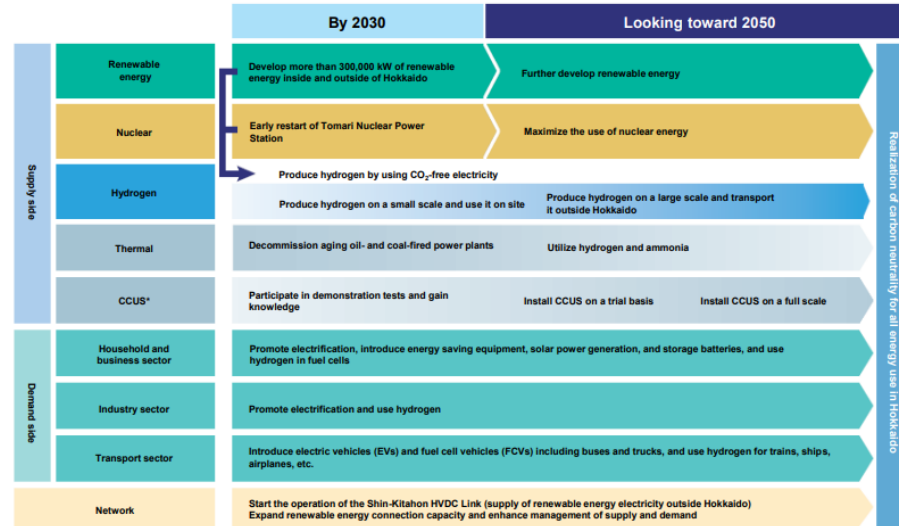
CO2 emission **-46%**
(vs FY2013)

Non-fossil based ratio **59%**

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Science-based Targets and Pathways (Element 3)

Hokkaido Electric Power Carbon Neutral 2050 Roadmap

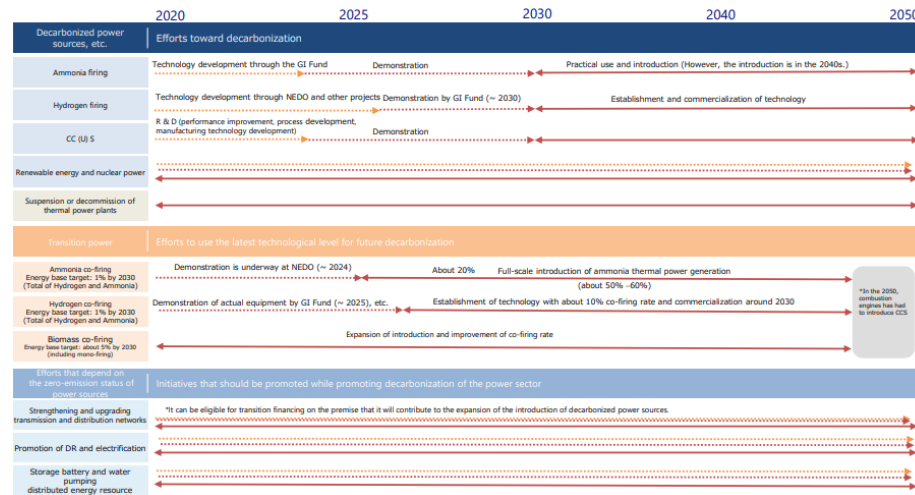


*CCUS (Carbon Capture, Utilization and Storage): Technology to separate and capture CO₂ for reuse or underground storage, etc.

Initiatives aligned with the roadmap

- Initiatives related to **decarbonized power sources (renewable energy, nuclear power)**
- Initiatives related to **actions that should be taken while promoting decarbonization of the power supply sector (battery, DER, water)**
- Initiatives related to **decarbonized power sources, etc. (suspension and decommissioning of thermal power supplies, CCUS)**
- Initiatives related to **actions that should be taken while promoting decarbonization of the power supply sector (DER, electrification, transmission)**

Power Sector Transition Roadmap from Agency for Natural Resources and Energy, METI



Key Points

- Initiatives toward 2030 are consistent with METI's roadmap.

Committee | Results

Hokkaido Electric Power Co., Inc. : Transition Finance

RESULTS:

Approved for Climate Innovation Finance Promotion Grants Scheme

Main Opinions

Transition Strategy

- A stable supply of electricity is an extremely important consideration, it is hoped that the transition will proceed while paying attention to the power balance by promoting the construction of new power plants as well as the decommissioning of inefficient power plants.
- The company's commitment to renewable energy as well as nuclear power, and its contribution to carbon neutrality, is commendable.

Other factors/ Others

- Although targets (SPTs) for restarting nuclear power plants are difficult to set due to its highly dependent nature on the external environment, milestones are set and disclosures to confirm the progress of projects are expected.

This document focuses on the contribution of transition finance to the realization of Japan's carbon neutrality by 2050 and the Paris Agreement and does not include any assessment of the risks associated with transition finance as a financial instrument. It should be noted that even the approved cases of this scheme, there are credit risks and other risks (in the case of bonds, price fluctuation risks, liquidity risks, etc.) as in ordinary financing.