

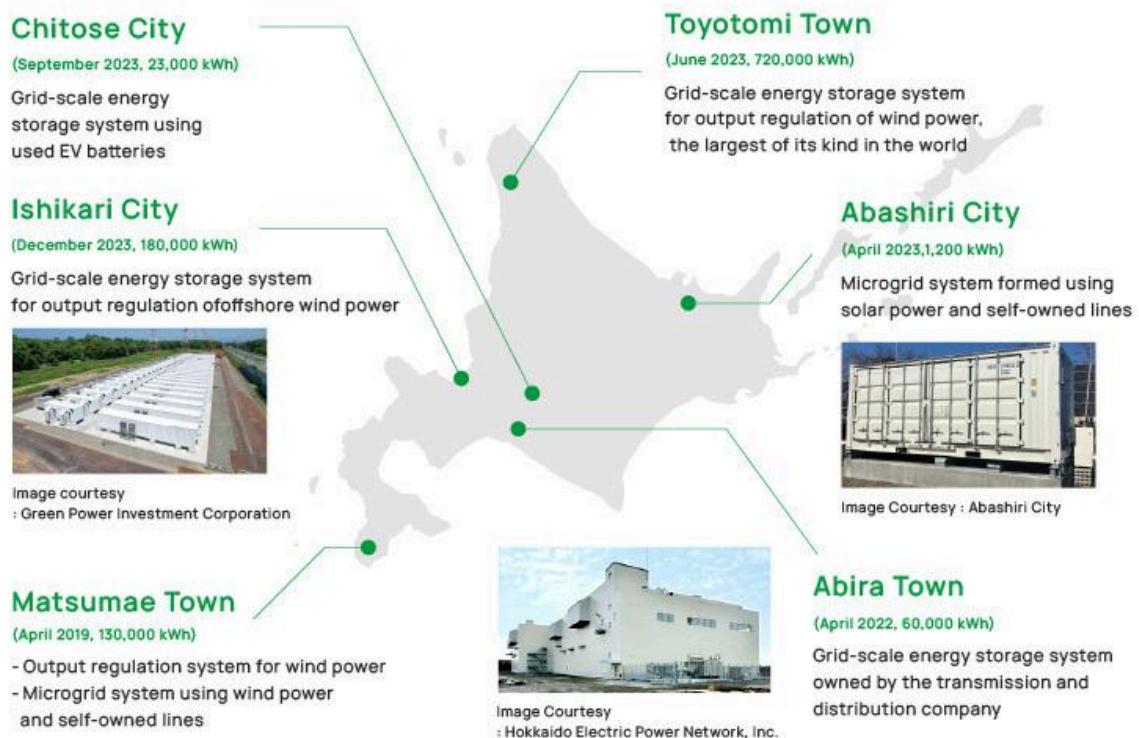
Team Sapporo-Hokkaido Green Finance Framework Sub-Framework (Storage Batteries)



1. Storage Batteries

Storage batteries are expected to become widespread as they can be used as a balancing tool to expand the introduction of renewable energy. Storage batteries are essential technology for maximizing the use of renewable energy in Hokkaido, and they are also a key element in forming microgrids and contribute to strengthening regional resilience.

Installation status of storage batteries (Grid-scale storage batteries and regional microgrid storage batteries)



Created by TSH based on existing information

2. Green Criteria

Evaluation Label	Criteria		Key Reference Standards
	[Utilization]	[Manufacturing]	
Green Premium	A+B or A+C		Climate Bonds Standard (CBS) EU Taxonomy
	A	Charging source (electricity) is <100g-CO ₂ /kWh	
	B	Charging source (electricity) is derived from renewable energy ¹	
	C	Green standards for five environmental goals other than climate change mitigation (water, pollution prevention, circular economy, climate change adaptation, biodiversity) Meet at least one of the above	
Green	Charging source (electricity) is <100g-CO ₂ /kWh	Manufacturing method other than Green Premium Manufacturing method	
Transition	The type of charging source (electricity) does not matter, but plans to function as a balancing resource.	None	GX Promotion Strategy Sector-Specific Technologies Roadmap
Not applicable	Projects that do not meet any of the above Green/Transition criteria, Or projects that meet the criteria but do not meet DNSH.		

For details on each criterion, please see below.

■CBS: Transmission, Distribution & Storage Criteria Electrical Grids and Storage Criteria

<https://www.climatebonds.net/our-expertise/climate-bonds-standard-and-certification-scheme/sector-criteria/electricals-grids-storage>

■EU Taxonomy: Manufacture of batteries

<https://ec.europa.eu/sustainable-finance-taxonomy/activities/activity/269/view>

■Agency for Natural Resources and Energy: Transition Roadmap for the Electricity Sector

https://www.meti.go.jp/policy/energy_environment/global_warming/transition/transition_finance_roadmap_electric_ipn.pdf

■GX Promotion Strategy (Reference Material: Case Study 15: Next-Generation Networks)

https://www.cas.go.jp/ip/seisaku/gx_iikkou_kaiqi/pdf/kihon_sankou.pdf

¹ As defined in the Act on [Special Measures for the Promotion of the Use of Renewable Energy Electricity](#)

3. Reporting

Business operators are required to submit annual reports.

[Annual Report Template]

Business Operator Name		Department Person in Charge: Name Contact: Listed
Target Project	Category	☐ Offshore Wind Power Generation ☐ Hydrogen ☐ Data Centers ☐ Battery Storage ☐ Next-Generation Semiconductors ☐ Synthetic Fuels (e.g., SAF) ☐ Subsea DC Transmission ☐ Electric and Hydrogen Carriers ☐ Other (specify)
	Project Name	Specify
	Basic Information	Details (Location, Scale, Specifications, Start of Operation)
	Reporting Period	YYYY MM - YYYY MM (Number of Months)
	Green Evaluation Label	☐ Green Premium ☐ Green ☐ Transition
Funding Status	Funding Date	YYYY MM DD
	Funding Amount	Amount in millions JPY
	Allocation Category	☐ New Investment (Including expenditures from cash on hand within the past three years) ☐ Refinancing
	Allocation Status	☐ Fully allocated ☐ In progress (Amount already allocated: ¥XX million JPY Unallocated Amount: [Amount in millions JPY] Expected Allocation Completion Date: [Year] [Month] ※If there are multiple projects, list them individually
Environmental Benefits	Item	GHG/CO ₂ Reduction ☐ Other (specify)
	Quantity (Unit)	Description (t-CO ₂ / year)
	Attribution	☐ Business Operator (Specify) ☐ User (Specify) ☐ Other (Specify)
	Actual/Plan	☐ Actual ☐ Planned
	Calculation Method	$A = B \times (C - D) \times E$ A: CO ₂ Reduction Amount, B: CO ₂ Emission Factor, C: Baseline Factor D: Project Coefficient,

		E: Equipment Utilization Rate/Period *If there are prerequisites, describe them in the reference information below
	Reference Information	☐ Ministry of the Environment materials ☐ Ministry of Economy, Trade and Industry materials (List materials referenced for the above calculation) ☐ Other (specify)
Region Sustainability	Target Individuals/Target Area	Specify (e.g., XX Town)
	Item	☐ Environmental Impact Assessment ☐ Fostering Local Understanding ☐ Solving local issues and Promotion regional development ☐ Participation in Community Activities ☐ Number of Employees ☐ Procurement Ratio ☐ Value Added Creation Amount
	Actual/Planned	☐ Actual Results ☐ Plans
	Plan Progress Status	Description
	Quantitative Data	Description (Person, Case, JPY) Other (Specify)
	Calculation Method	Listed by item (e.g., data comparable to the previous fiscal year)
	Other Reference materials, etc. Remarks	

4. Do No Significant Harm Criteria (DNSH)

※1 Quoted from the EU Taxonomy

※2 Quoted from the Climate Bonds Standard (CBS)

4.1 Climate Change Adaptation

- The activity complies with the criteria set out in Appendix-A (Attachment) (※1)

4.2 Water

- The activity complies with the criteria set out in Appendix-B (Attachment) (※1)

4.3 Circular Economy

- For manufacturing of new batteries, components and materials, the activity assesses the availability of and, where feasible, adopts techniques that support:
 - a. Reuse and use of secondary raw materials and reused components in products manufactured.
 - b. Design for high durability, recyclability, easy disassembly and adaptability of products manufactured.
 - c. Information on and traceability of substances of concern throughout the life cycle of the manufactured products.
- Recycling processes meet the conditions set out in [Article 12 of Directive 2006/66/EC of the European Parliament and of the Council](#) and in Annex III, Part B, to that Directive, including the use of the latest relevant Best Available Techniques, the achievement of the efficiencies specified for lead-acid batteries, nickel-cadmium batteries and for other chemistries. These processes ensure the recycling of the metal content to the highest degree that is technically feasible while avoiding excessive costs. (※1)
- Where applicable, facilities carrying out recycling processes meet the requirements laid down in [Directive 2010/75/EU](#) of the European Parliament and of the Council. (※1)

4.4 Pollution Prevention

- The activity complies with the criteria set out in Appendix-C (Attachment) (※1)
- Batteries comply with the applicable sustainability rules on the placing on the market of batteries in the Union, including restrictions on the use of hazardous substances in batteries, including [Regulation \(EC\) No 1907/2006](#) of the European Parliament and of the Council and [Directive 2006/66/EC](#). (※1)

4.5 Biodiversity

- The activity complies with the criteria set out in Appendix-D (Attachment) (※1)

4.6 Operation and Maintenance Plan for Long-Term, Stable Environmental Improvement Effects and Consideration for the Surrounding Environment

- Not applicable

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