

Team Sapporo-Hokkaido Green Finance Framework Sub-Framework (Data Centers)



1. Data Centers

Data centers are the infrastructure of the digital society and are essential facilities for daily life, as all Internet services are provided via data centers. The national government has positioned Hokkaido as a core hub for digital infrastructure that complements and replaces the Tokyo and Osaka areas (1). Recently, data centers for AI development are being established in Hokkaido, utilizing its cool climate and abundant renewable energy.

Major Data Center Locations in Hokkaido



Created by TSH based on existing information

¹ May 2023, from the Interim Summary 2.0 of the Expert Meeting on Digital Infrastructure (DCs. etc.) Development convened by the Ministry of Economy, Trade and Industry and the Ministry of Internal Affairs and Communications

2. Green Criteria

Evaluation Label			Key Reference Standards		
Green Premium					
	А				
	В	PUE < 1.4	+	Electricity usage for DC is renewable energy ³ or <100g-CO ₂ /kWh	EU Taxonomy
Green	A or B				
	А	PUE < 1.4			
	В	BAT⁴, and a buil			
Transition			_		
Not applicable	Pr	ojects that do not meet Or projects that mee			

For details on each criterion, please see below.

- ■CBS: No applicable criteria
- ■EU Taxonomy: Data processing, hosting, and related activities https://ec.europa.eu/sustainable-finance-taxonomy/activities/activity/357/view
- ■Conventional green finance market practices
- ■When calculating PUE, refer to the "Overview of the Benchmarking System for the Data Center Industry" established by the Agency for Natural Resources and Energy.

 $\frac{https://www.enecho.meti.go.jp/category/saving\ and\ new/saving/enterprise/factory/support-tools/data/2023\ 01benchm\ ark.pdf}{}$

² Power Usage Effectiveness: An indicator calculated by dividing the facility's total electricity consumption by the electricity consumption of IT equipment

³ As defined by the Act on <u>Special Measures for the Promotion of the Use of Renewable Energy Electricity</u>

⁴ Best Available Technology: The best technology currently available. Refers to "the best technology and management methods that can be introduced at the present time, considering economic factors, to protect the environment."

3. Reporting

Business Operators are required to submit annual reports.

[Annual Report Image]

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 Date	YYYY MM DD	
	Funding Amount	Amount in millions JPY	
Funding Status	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/CO₂ 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 × (C - D) × 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) 	
	Target Individuals/Targ et 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)	
Region Sustainability	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

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

4.3 Circular Economy

- The equipment used meets the requirements laid down in Directive 2009/125/EC for servers and data storage products. (%1)
- The equipment used does not contain the restricted substances listed in Annex II to Directive 2011/65/EU of the European Parliament and of the Council, except where the concentration values by weight in homogeneous materials do not exceed the maximum values listed in that Annex. (%1)
- A waste management plan is in place and ensures maximal recycling at end of life of electrical and electronic equipment, including through contractual agreements with recycling partners, reflection in financial projections or official project documentation. (%1)

4.4 Pollution Prevention

Not applicable

4.5 Biodiversity

Not applicable

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

Not applicable

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