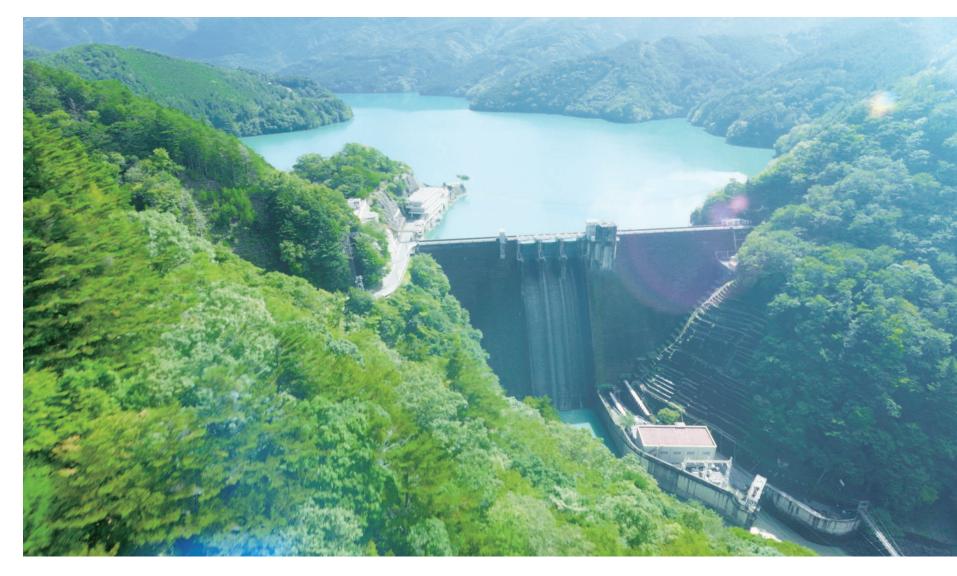


Chubu Electric Power Group TNFD Report







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Message

The Chubu region features richly diverse nature. This includes the majestic Japan Alps and the large rivers that originate in these mountains as well as Ise Bay and Mikawa Bay, which retain an abundance of natural environments despite being situated in urban areas. As a business operator with its base in this region, the Chubu Electric Power Group undertakes business activities that consider coexistence with nature in keeping with the Chubu Electric Power Group Basic Environmental Policy.

The Group published the Chubu Electric Power Group TNFD Report in August 2024 for the first time, based on the TNFD Framework (v1.0). The report includes analysis of the relationship between business and nature as well as the risks and opportunities arising from the electric power businesses of three Group companies that include Chubu Electric Power, Chubu Electric Power Grid, and Chubu Electric Power Miraiz.

In this second disclosure, we reassessed our dependencies and impacts on nature based on the updated 2024 classification and evaluation of "ENCORE," and made efforts in the disclosure so that the results of our LEAP approach analysis can be more easily understood by readers.

The electric power business is an industry that relies on and may have a major impact on natural capital such as land and water to provide electricity essential to daily life. To operate a sustainable electric power business, we believe it is important to continue to improve our relationship with this natural capital. To reduce our impact on nature, we appropriately manage this impact by complying with relevant laws and regulations, environmental assessments, and our own independent standards.

In November 2024, the Company received a high-rating certification under the Aichi Biodiversity Company Certification Program. We believe this recognition reflects our approach of viewing climate change, biodiversity, and resource circulation in an integrated manner as we conduct our business utilizing natural capital from the mountains to rivers and the sea, and our various environmental initiatives. We will continue striving to solve environmental issues in general—including resource circulation—through an integrated approach that balances climate change countermeasures with biodiversity, with the aim of contributing to the realization of nature positive outcomes.

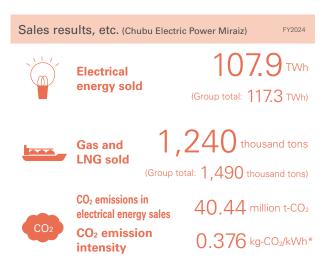
We have also published a separate Environmental Communication Book that describes our environmental initiatives and would be appreciative if you take the time to read this publication as well.



Environmental Communication Book (Japanese version only)

1 Overview of the Chubu Electric Power Group

Following the full integration of the thermal power generation businesses into JERA in 2019, the power transmission/distribution division and sales division were split off into Chubu Electric Power Grid Co., Inc. and Chubu Electric Power Miraiz Co., Inc., respectively, in April 2020, while Chubu Electric Power Co., Inc. now assumes responsibility for group-wide corporate management and power generation utilizing nuclear and renewable energy sources.



^{*} This is the emission factor for Chubu Electric Power Miraiz as a whole, and is different from the emission factor for each menu.

	Insmission/distribution Chubu Electric Power Grid) As of March 31, 2025
	Transmission 11,878 km
	Number of supporting structures (iron tower, etc.) 34,629 units
	Number of substations 998 locations
###	Distribution 136,587 $\rm km$
	Number of supporting structures (utility poles, etc.) 2,889,108 units

Pow	er genera	ation facilities (Chubu Electri	ic Power) As of March 31, 2025
л		General hydroelectric power Approx. 2, 160 MW	Pumped storage power Approx. 3,320 MW
Renewable	*	Wind	Approx. 30 MW
energy	*	Solar	Approx. 20 MW
		Biomass	Approx. 50 MW
		Nuclear	3,617 MW

Operating reve		3,669.2 bil			attributable to owners of parent					
Operating (loss		242.0 bil		Shareholders' equ	39.19					
Ordinary (loss)	income	276.4 bil	lion yen	Number of consol	idated subsidiaries	75 companies				
Number of em	ployees					As of March 31, 2025				
	22 566	persons	Main b	usiness companies:	Chubu Electric Power	3,289 persons				
Consolidated	22,500	po. 000								
Consolidated	22,500	po. 00.10			Chubu Electric Power Grid	10,021 persons				

Chubu Electric Power Group CSR Declaration and Basic Environmental Policy

The Chubu Electric Power Group, which operates businesses with a high public interest, including ensuring the stable supply of energy, will contribute to the medium-to-long-term sustainable development of society (sustainability) together with stakeholders by fulfilling CSR (Corporate Social Responsibility) through its business activities. We have formulated the Chubu Electric Power Group CSR Declaration to convey to all stakeholders the Group's CSR philosophy in the form of an easy-to-understand and clear message.

In April 2025, following the revision of the Chubu Electric Power Group Corporate Philosophy, we also revised our CSR Declaration. As part of this revision, we explicitly designated the "global environment" as an important stakeholder. While we have already been conducting environmentally conscious management based on the Chubu Electric Power Group Management Vision 2.0 and other policies, we aim to further raise employee awareness and accelerate group-wide naturepositive and biodiversity-conscious management through the inclusion of this in our CSR Declaration.



Chubu Electric Power Group CSR Declaration

Chubu Electric Power Group CSR Declaration

Fulfilling our responsibilities and meeting society's expectations

The Chubu Electric Power Group connects people with people, and people with society. Together with our customers, our communities, and everyone who lives on this planet, we take on the challenge of creating a bright and happy future full of energy.

In conducting business operations,

- We place the highest priority on safety, ensure stable energy supply, and strive to protect the global environment.
- We always manage our businesses in a fair and sincere manner by observing national and international laws, regulations and social rules and by respecting corporate ethics.
- We respect the human rights of all people involved in our business activities, giving priority to dialogue with all our stakeholders and maintaining high levels of transparency and openness in our corporate activities.

Customers

We are committed to providing our customers with safe, reliable, convenient, and affordable energy services, as well as other services of value that meet their needs.

Shareholders and Investors

We are striving to maintain and increase profits for our shareholders and investors through efficient management and effective investment.

Local Communities

We are determined to contribute to sustainable local development in partnership with local communities.

Business Partners

We promise to deal fairly with our suppliers as equal business partners and work together to increase the transparency and soundness of the entire supply chain.

Employees

We strive to create a cheerful and motivating workplace where safety and health are top priorities, and where diverse human resources take active roles.

Global Environment

We are committed to environmental conservation to pass on our irreplaceable planet to future generations

In order to attain both environmental conservation and the Chubu Electric Power Group's sustainable growth, we have formulated the Chubu Electric Power Group Basic Environmental Policy based on the CSR Declaration and have been practicing environmental management toward the "realization of a carbon-free society," "coexistence with nature" and "realization of a recycling-oriented society."

[Chubu Electric Power Group Basic Environmental Policy]

Our basic policy for environmental conservation, which is based on the Chubu Electric Power Group CSR Declaration, is stated below.

The Chubu Electric Power Group will deliver high-quality electricity in a safe, affordable, and stable manner, and provide "new forms of community" through creation of the Community Support Infrastructure, and we will aim to grow sustainably as a total energy service corporate group that is one step ahead.

With the aim of realizing these goals, we will practice appropriate environmental management, and each and every one of our employees shall exercise discipline and act in an environmentally conscious manner. We will contribute to the sustainable development of society through implementation of initiatives in all aspects of energy value chain aiming to achieve a carbon-free and recycling-oriented society that is in harmony with nature.



Realization of a carbon-free society

We Will Aim to Realize a Carbon-Free Society

<Toward achieving "Zero Emissions Challenge 2050">

- We will promote the utilization of nuclear power generation by prioritizing safety improvements and winning the trust of the local community.
- In addition to hydroelectric power, solar power, land-based wind power and biomass, we will proactively promote the renewable energy business, including new areas such as offshore wind power and geothermal power generation.
- We will promote initiatives to ensure electric power of a quality that allows for effective utilization of renewable energy power sources and storage batteries.
- We will strive to construct and operate electric facilities in a rational manner with digital technology that will enable optimal energy use. We will create a customer-centered community support infrastructure to meet society's needs, thereby contributing to electrification and decarbonization of energy use in cooperation with communities and customers.



Coexistence with nature

We Will Strive to Coexist with Nature

 To protect our rich natural environment, we will take into account ecosystem biodiversity and water resources sustainability as we conduct our business activities.



Realization of a recycling-oriented society

We Will Aim to Create a Recycling Society

• We will work to reduce our consumption of resources and strive to minimize disposal volume by reducing waste as well as reusing and recycling resources.



Increased environmental awareness

We Will Endeavor to Raise Environmental Awareness

- We will enhance communication about the environment and energy with members of the community.
- We will train personnel so that they take the initiative to act in an environmentally-conscious manner and contribute to society.

The Chubu Electric Power Group will continuously strive to improve our environmental initiatives and disclose information about them in a timely and appropriate manner.

(Revised in March 2021)



Chubu Electric Power Group Basic Environmental Policy

3 Governance

1 Sustainability promotion structure

The Group considers the promotion of sustainability—including climate change and biodiversity—as a key issue, and has established the CSR Committee chaired by the President (CEO) of Chubu Electric Power, to build a corporate governance system for all sustainability issues.

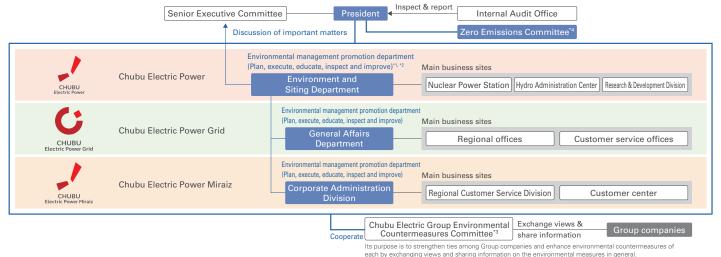
Sustainability issues, including climate change and biodiversity, are discussed at the CSR Committee, reported to the Board of Directors, and under the appropriate supervision of management, strategies and targets are formulated and promoted.

2 Structure to promote environmental activities

Separate from the overall sustainability promotion structure, Chubu Electric Power's Environment and Siting Department serves as the management and promotion department for the management targets defined based on the Basic Environmental Policy. Important matters are submitted to the Senior Executive Committee for discussion.

[Environmental management at the Chubu Electric Power Group]

The Group undertakes environmental management activities, in which we apply a plan-do-check-act (PDCA) cycle to the management targets defined based on the Chubu Electric Power Group Basic Environmental Policy and related initiatives of each. We achieve conformance with ISO 14001 through self-declaration and conduct environmental management activities accordingly.



[Compliance status with environmental laws and regulations]

There were no significant violations of environmental laws and regulations in FY2024. We will continue to comply with laws and regulations and strive for environmental conservation.

- *1 General managers in charge of various offices at Chubu Electric Power, Chubu Electric Power Grid and Chubu Electric Power Miraiz, who are appointed by the General Manager of the Environment and Siting Department (executive officer in charge of the environment), deliberate on and coordinate environmental policies, action targets and other related matters of the Chubu Electric Power Group. Important matters are submitted to the Senior Executive Committee for discussion.
- *2 In order to implement environmental management activities based on the PDCA cycle, we have formulated internal rules that apply to Chubu Electric Power, Chubu Electric Power Grid and Chubu Electric Power Miraiz. The internal rules stipulate that a periodic check (operational survey) is performed on the status of compliance with environmental laws and regulations at business sites of Chubu Electric Power and Chubu Electric Power Grid as an effort to ensure legal compliance.
- *3 This committee, comprising 27 Group companies (excluding Chubu Electric Power Grid and Chubu Electric Power Miraiz), shares information and holds sessions to exchange views on a periodic basis and promotes effective environmental management activities matched to the type of business of each company.
- *4 This committee, newly established in March 2021, is a body placed under the direct control of the President & Director. It defines super long-term as well as medium- to long-term climate changerelated goals of Chubu Electric Power, Chubu Electric Power Grid, Chubu Electric Power Miraiz and other Group companies and formulates and evaluates action plans for achieving these goals.

3 Exchange of opinions with expert committee members

With the aim of receiving advice and recommendations on our environmental initiatives and being informed of the latest domestic and international environmental information and case studies, we hold annual opinion exchange meetings with external expert committee members. In FY2024, we received a wide range of opinions from the following members.

Expert committee members (titles omitted):

Chiemi Asano	Hiromichi Fukui	Ryo Kohsaka
Vice Director and Environmental Counselor,	Director, Chubu Institute for Advanced Studies;	Professor, Department of Forest Science,
NACS Consumer Life Research Institute,	Director, International GIS Center,	Graduate School of Agricultural and Life Sciences,
Nippon Association of Consumer Specialists	Chubu University	The University of Tokyo

We held the Chubu Electric Power Group environmental opinion-exchange meeting 2024.

Chubu Electric Power Co., Inc. | ESG

Risk and Impact Management

In order to respond to company-wide risks, at Chubu Electric Power, the president of each company and the general manager of each department in the headquarters are responsible (risk owners) for the management of business execution risks. Among such risks, risks with a significant impact on management are regularly reported to the Risk Management Department. The Risk Management Department reports to the Risk Management Committee chaired by the President on risks that are managed in an integrated manner from the perspective of the entire company based on the reports from the risk owners. The risk response policy is deliberated and decided by the President at the Risk Management Committee and the risk owners reflect the response policy in their annual management plans and risk countermeasures.

5 Strategy

We conducted evaluations of nature-related dependencies, impacts, risks, and opportunities in our own businesses. Evaluation work was conducted in accordance with the LEAP approach recommended by TNFD. First, in the Scope (selection of evaluation targets) phase, we selected the scope of evaluation, then conducted Locate (identification of interface with nature), Evaluate (evaluation of dependencies and impacts), Assess (assessment of risks and opportunities), and Prepare (setting and disclosure of metrics, etc.).



(Note 1) An analysis tool jointly developed by the United Nations Environment Programme, the Natural Capital Finance Alliance (UNEP-NCFA), and other organizations to help private companies understand the scale of their nature-related dependencies and impacts. (Note 2) Integrated Biodiversity Assessment Tool (IBAT): A tool that provides geospatial data with access to databases such as the IUCN Red List, protected areas, and Key Biodiversity Areas (KBA).

1 Scope (selection of evaluation targets)

We selected the electric power business, which accounts for the majority of our Group's sales and is evaluated by ENCORE as having a significant dependency and impact on natural capital, as the evaluation target. Among the electricity business, we specifically selected Chubu Electric Power, Chubu Electric Power Grid (limited to power transmission and transformation), and Chubu Electric Power Miraiz, which have particularly large business scales.

For raw material procurement, we used ENCORE to confirm the degree of potential dependency and impact on nature in biomass fuel procurement in our biomass power generation and transmission line procurement (mainly copper wire) in our power transmission and transformation operations, where continuous procurement occurs.

We have also confirmed via ENCORE that our real estate business, in which we are planning to expand, and renewable energy businesses promoted by Group companies, have significant potential dependencies and impacts on natural capital. We will consider expanding analysis and other measures in the future.

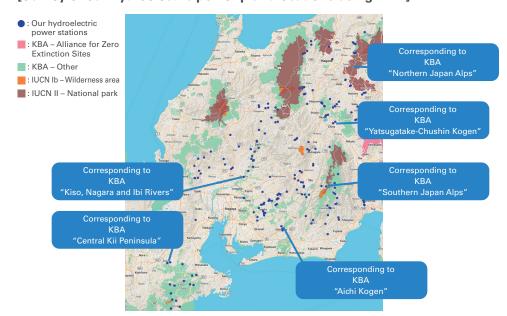
2 Locate (identification of interface with nature)

We conducted a study using IBAT on the facilities of the business activities subject to investigation (nuclear power plants, hydroelectric power plants, solar power plants, wind power plants, biomass power plants, and 500 kV substations) to determine whether they fall within Key Biodiversity Areas (KBA) and IUCN (International Union for Conservation of Nature) management categories, and if applicable, to identify the relevant species involved.

As a result of the investigation, we recognized that some hydroelectric power plants are located in areas that correspond to KBAs due to their proximity to certain species (fish), and that care must be taken in conducting activities in these areas.

Facility category	No. surveyed	KBA – Alliance for Zero Extinction Sites	KBA – Other	IUCN Ia - Strict nature reserve	IUCN Ib - Wilderness area	IUCN II - National park
Nuclear	1		1			
Hydro	200		45			7
Solar	9					
Wind	2		1			
Biomass	1					
500 kV substation	10		1			
Total	223		48			7

[Survey of our hydroelectric power plant locations using IBAT]



[Example: Red List species in KBA "Kiso, Nagara and Ibi Rivers"]

Target species	IUCN Red List category
Pseudorasbora pumila (fish)	EN
Acheilognathus longipinnis (fish)	VU
Acheilognathus cyanostigma (fish)	EN
Pseudobagrus ichikawai (fish)	VU
Andrias japonicus (amphibian)	NT
Sympetrum maculatum (insect)	EN

[Acheilognathus longipinnis]



3 Evaluate (evaluation of dependencies and impacts)

For our business activities subject to analysis (direct operations) and fuel/material procurement (biomass production, mining, etc.), we used ENCORE to understand the dependencies and impacts on nature. For our direct operations, we conducted our own evaluation with reference to ENCORE descriptions.

[Direct operations]

						Impacts					
			Land use change		Direct extraction	Climate change		Contamination			
Direct operations business segment	Process	Land	Freshwater	Seafloor	Water usage	GHGs	Air (non-GHG pollutants)	Waters and soil	Solid waste generation and release	Noise/light pollution	
Nuclear	Power generation	Medium	Low	Low	Low	Very Low	Low	Low	Low	Very Low	
Hydro (general)	Power generation	Low	Low	_	Low	Very Low	_	_	Low	Low	
Hydro (pumped storage)	Power generation	Low	Low	_	Very Low	Very Low	_	_	Low	Low	
Solar	Power generation	Low	_		_	_	_	_	Low	Very Low	Low
Wind	Power generation	Low	_		_	_	_	_	Very Low	Low	
Biomass	Power generation	Low	_	_	Very Low	Very Low	Low	Low	Low	Low	
Power transmission and transformation		Low	Low	Very Low	Very Low	Very Low	Very Low	Low	Low	Low	

							De	ependenci	ies							
		Provisionir	ng services	Regulating services												
Direct operations business segment	Process	Water supply	Vater Biomass		Climate Climate regulation regulation Filtration (Global) (Local)			Flood mitigation	Storm mitigation	Soil sediment retention	Water flow regulation	Water purification	Noise reduction	Others (e.g., air and ecosystem purification)		
Nuclear	Power generation	Low	_	Very Low	Very Low	Very Low	Very Low	Low	Low	Low	Low	Low	Very Low	Very Low		
Hydro (general)	Power generation	Very High	_	Very High	Very Low	_	Very Low	Very High	Medium Very High		Very High	Low	_	_		
Hydro (pumped storage)	Power generation	Very Low	_	Medium	Very Low	_	Very Low	Very High	Medium	Very High	Very Low	Low	_	_		
Solar	Power generation	_	_	Very High	Very Low	_	_	Medium	Medium Medium	Medium	Very Low	_	Very Low	_		
Wind	Power generation	_	_	Very High	Very Low	_	_	Medium		Medium	_	_	Medium	_		
Biomass	Power generation	Low	High	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Low	Low	Low	_	_		
Power transmission and transformation		Very Low	_	Medium	Very Low	_	Very Low	Medium	Medium	Medium	Very Low	_	Very Low	_		

[Upstream (procurement) business]

■ENCORE heatmap (upstream): Upstream evaluations are based directly on ENCORE

								Impacts						
		La	ınd use chan	ge	Direct extraction	Climate change		Poll	Other					
Type of power generation	Process	Land	Freshwater	Seafloor	Water usage	GHG emissions	Air (non- GHG pollutants)	Discharge of pollutants into aquatic areas and soil	rich soil	Solid waste generation and release	Noise/light pollution	Harvesting of biological resources (fish, timber, etc.)	Harvesting of other non- biological resources	Invasion of non-native species
Biomass	Fuel procurement (palm kernel shells)	ent Low		High High —		Medium	Medium	High	High	High	Medium	_	_	High
DIOITIdSS	Fuel procurement (wood pellets)			_	Medium	Medium	Medium	Very Low	_	Medium	Medium	_	_	_
Power transmission and transformation	Raw material procurement (manufacture of transmission lines and power transmission facilities)	Low	_	_	Low	Very Low	Low	Medium	-	Low	Medium	_	_	_
	Raw material procurement (metal mining)	Medium	Very High	Very High	Medium	Medium	High	Very High	-	High	Very High	-	High	Low

			Dependencies Depen																								
		Prov	isionii	ng serv	/ices																Cultural services						
Type of power generation	Process	Animal-derived energy	Water supply	Genetic material services	Biomass supply	Climate regulation (Global)	Climate regulation (Local)	Precipitation pattern regulation	Filtration		Flood mitigation	Storm mitigation	Soil sediment retention services	Soil regulation	Water flow regulation	Water purification		Biological control	Genetic material services	Cultivated populations and habitat maintenance services	Impacts on sensory perception such as light pollution (excluding noise)	Pollination services	Others (e.g., air and ecosystem purification)	Recreation- related services	Visual amenity services	Educational, scientific, and research services	Spiritual, artistic, and symbolic services
Biomass	Fuel procurement (palm kernel shells)	Medium	High	Medium	Very High	Very High	Very High	Very High	Medium	Medium	High	High	Very High	Very High	High	Very High	_	High	Medium	Very Low	_	Very High	Medium	-	_	_	_
BIOITIASS	Fuel procurement (wood pellets)	Medium	High	High	Medium	Low	Medium	Very High	Very Low	Very Low	Low	Low	Medium	Low	Medium	Very High	_	Low	Medium	_	_	Very Low	Very Low	-	_	Very High	Very High
Power transmission and transformation	Raw material procurement (manufacture of transmission lines and power transmission facilities)	-	Medium	-	Very Low	Very Low	Low	Medium	Very Low	Low	Medium	Medium	Low	-	Medium	Medium	Very Low	_	_	_	Very Low	-	Low	-	-	-	_
	Raw material procurement (metal mining)	-	High	-	Very Low	High	Low	High	Very Low	Low	High	Medium	Medium	-	High	Very High	Very Low	-	_	_	Low	-	Medium	-	_	-	_

The following outlines our approach to the main dependencies and impacts on nature by each business activity.

A) Nuclear power generation

Impacts

In accordance with all laws and regulations, we thoroughly manage radioactive materials and other chemical substances to ensure that these have no impact on the surrounding areas. We work to reduce the impact of radioactive materials as well as warm water discharge by selecting discharge methods that have minimal impact on the environment.

Dependencies

We also use fresh water from rivers in addition to seawater. However, our level of dependence on fresh water is less than seawater and we have established a system that can operate without impediments even when the volume of river water is low. We also recognize that our level of dependence on other natural environments is small.

B) Hydroelectric power generation (general/pumped storage)

Impacts

When constructing electric power plants and dams, we take appropriate responses such as undertaking environmental assessment procedures to prevent significant impacts on land and freshwater ecosystems.

- ✓ In dam and conduit type power plants, long open channels and penstocks can hinder the movement of living creatures. However, we implement measures to avoid obstructing their movement, such as installing bridges above open channels that allow for the passage of wildlife.
- ✓ Some of our hydroelectric power plants are located in KBAs such as the Kiso River and Yahagi River systems. We are working to preserve the ecosystem in these areas by installing fishways suitable for fish habitats.
- ✓ We take measures against sedimentation that could have an impact on the ecosystem while aiming for harmonious coexistence with the local areas where our facilities are situated.
- ✓ At hydroelectric power plants, a certain level of noise is generated. However, we are advancing various initiatives for noise reduction, such as acquiring patents and implementing equipment for noise-reducing devices inside tunnel-type discharge channels.

Dependencies

There is a high dependency on water resources and the climate regulation functions that support them, as river water volume is directly linked to power generation. However, according to the results of a survey by Aqueduct, (Note 1) our business areas have been assessed as having a low risk of drought due to climate change and other factors, and the risks arising from dependency on river water volume are considered small. Almost all hydroelectric power plants are situated in mountainous areas and thus strongly depend on ecosystem services such as flood mitigation and landslide prevention functions provided by forests. Accordingly, we recognize that in the event of any significant destruction of surrounding nature (forests), the damage to our facilities caused by flooding, landslides, etc. could become significant.

As for pumped-storage dams, we recognize that because water is circulated between upper and lower reservoirs, our dependence on water resources (river water) is smaller than that for general hydropower.

C) Solar power generation

Impacts

Our solar power facilities are planned and installed with minimal land modification or tree felling in order to reduce environmental impact. These facilities are also designed to ensure safety even in the event of a typhoon or other natural disasters.

Dependencies

Solar power is assessed as being highly dependent on global climate regulation functions (sunlight, frequency of natural disasters, etc.) due to the need for stable sunlight levels and the fact that equipment is installed exposed on the ground surface.

D) Wind-power generation

Impacts

Our wind power facilities undergo appropriate environmental impact assessments at the planning stage, and we strive to avoid significant effects on ecosystems as much as possible. We will continue to advance planning to allow for construction and operation with full consideration of not only terrestrial species but also birds, fish, and other ecosystems.

Dependencies

Wind power is assessed as being highly dependent on global climate regulation functions (wind direction, frequency of natural disasters, etc.) due to the need for stable wind direction and volume and the fact that equipment is installed exposed on the ground surface.

E) Biomass power generation

Impacts

Biomass power generation is assessed by ENCORE as having significant natural impact at the upstream stage (biomass fuel production). Chubu Electric Power's biomass power plants use wood pellets procured from Vietnam and palm kernel shells procured from Indonesia and Malaysia as fuel. By procuring only items for which sustainability is assured through international certification systems, we aim to balance environmental conservation in the procurement regions with the effective use of forest resources.

For the direct operation of power plants, in accordance with a pollution control agreement with local communities we consider the surrounding environment by operating these plants while working to curb the emission of air pollutants, water pollutants, and other waste that has an impact on the environment.

Dependencies

We are dependent on natural supply services because we use wood pellets and palm kernel shells as fuel. However, we are working to reduce the risks arising from this dependence by building multiple supply networks through various projects.

Topics

We are also actively developing local-production-for-local-consumption type biomass power plants using domestic materials such as unused thinned wood and pruned branches. By using pruned branches—which were previously discarded or incinerated—as fuel for power generation, we are reducing our level of dependence and impact on nature.

F) Power transmission and substations

Impacts

For transmission and substation facilities, environmental impact assessments are appropriately implemented at the time of installation and to prevent the loss of rare plants these plants are transplanted and the scope of construction is downsized. Construction processes and helicopter routes are changed to protect birds of prey.

In addition, for used transmission lines, we are promoting a closed recycling system in cooperation with construction companies and cable manufacturers, in which used insulated cables are collected and used to produce new insulated cables. Through the recycling of power lines, we are working to reduce the natural impact at the procurement (upstream) stage.

Dependencies

Numerous transmission areas are in mountainous regions and depend on ecosystem services such as erosion prevention. However, upon assessing the risks of flooding and landslides at each site and reducing risks in the event of natural disasters, we have established a system that enables the supply of electricity by switching systems even if facilities are damaged by a natural disaster.

Topics

C-TECH CORPORATION, a member of the Group, has developed KODOBOKU, a technology to prevent slope disasters in advance for long-term conservation of transmission tower sites. By digitizing terrain using proprietary digital technology and visualizing slope runoff through runoff analysis, the system enables prediction and precise response to potential disasters using proprietary materials and construction methods, thus preventing disasters before they occur.



KODOBOKU technology

4 Assess (assessment of risks and opportunities)

Taking into account the results of the evaluation up to the Evaluate phase, we recognize the items listed in the table below as nature-related risks and opportunities with high impact and frequency in the subject businesses.

[Risks]

Category	Subcategory	Business segment	Risk summary	Financial impact	Impact*	Frequency	Countermeasures
Physical risks	Acute risks	Hydro	Intensifying flood disasters causing damage, destruction or immersion of facilities (embankments, the body of a dam, dam's sluice-side console panels, power generators, power distribution boards, etc.)	 Lower operating revenues due to a decline in sales of electric power Incurring costs of repairs, damage 	Small to large	Medium to high	 Executing certain functional enhancements as a measure to increase the resilience of our facilities (installing watertight doors at power plants, etc.)
		Renewables (excluding hydro)	Large-scale natural disasters causing destruction of power generation facilities (windmills, solar panels, biomass facilities, etc.)		Medium	Medium	 Designing and executing construction work in compliance with relevant laws and regulations Conducting inspections and repairs in a systematic manner
		Power transmission and transformation	Large-scale natural disasters causing damage, destruction or immersion of power transmission and transformation facilities (pylons, power cables, power transformation equipment, power distribution boards, etc.)	compensation, etc.	Large	Medium	 Implementing facility countermeasures (raising the equipment installation levels, installing waterproof barriers, etc.) Keeping in stock materials needed to respond to accidents (iron towers, iron pillars and others for restoration) Providing training to ensure early recovery
		Hydro	Restricting power generation operations when a shortage of water is expected	Lower operating revenues due to a decline in power generation volume	Medium	Medium	Collecting weather information, operating dams appropriately based on rainfall prediction, etc.
	Chronic risks	Hydro	[Risks shown below, associated with an increase in dam sediments] Decline in power generation volume due to loss of water storage capability Power generation hindered by sedimentation in front of a water intake, etc.	 Lower operating revenues due to a decline in power generation volume Increase in cost of sales due to costs of countermeasures 	Large	Medium	 Removing soil (dredging) or moving soil at upstream parts of reservoirs Continuous dam discharge to keep the required functionality of sand discharge pipes and outlet conduits
Transition risks	Reputational risks	Renewables in general	Opposition movement against development due to associated environmental destruction and disaster occurrence	 Loss of business opportunities Increase in costs due to costs to restore to original condition and for disaster recovery 	Medium	Medium	 Development plans that give consideration to the environment Providing detailed and clear explanations to local residents and building a good relationship with them Designing and executing construction work in compliance with relevant laws and regulations, etc.
	Market risks	Biomass	Tight supply of biomass fuels due to such factors as an increase in biomass power generation projects worldwide and acquisition of relevant certification becoming mandatory	Increase in procurement costs due to a rise in market prices	Medium	Medium	Long-term, fixed price contracts to ensure stable procurement, etc.

^{*} Impact criteria: Determined while taking into account the monetary impacts when the risks occur as well as impacts on nature, among other factors

As for opportunities, we aim to improve our sustainability performance through research and development and maximize our business performance by executing environmentally conscious business and expanding our menu of services.

[Opportunities]

Category	Subcategory	Business segment	Opportunity summary	Financial impact
		All renewables	 Rising needs for the use of carbon-free energy and expanding demand for electrification Electric power needs with a focus on protecting ecosystems 	 Increased revenue through the provision of CO₂-free menus Increased revenue through the provision of biodiversity protection menus
	Markets & reputational	Biomass	Growing needs for using energy from biomass power generation plants, which give consideration to materials they purchase (certified products, locally-produced biomass, etc.)	Increased revenue
Business performance		Hydro	User-engaging renewable energy expansion models to update the existing hydroelectric power plants	Increased revenue by updating very aged facilities and promoting efficient water usage
	Products and services	New businesses	[New businesses for reducing water usage in the entire society] • Automated meter reading service for water usage via an electricity smart meter communication network; business to utilize the collected data • Development and sales of highly efficient wastewater cleaning equipment using fine bubbles	Expanding a revenue baseContributing to reduction of water usage in society
		Entire Group	Business activities protecting rare plant species and raptorial birds	
		Entire Group	Development of conservation technology for endangered species	_
		Entire Group	Development of technologies to remove invasive alien species	_
Sustainability	Ecosystem protection,	Entire Group	Research on greenery projects that utilize native species	_
performance	restoration and regeneration	Entire Group	Conducting activities to nurture forestry volunteers	_
		Entire Group	Conducting joint research with Nagoya University to visualize forests' watershed protection capabilities	_
		Hydro	Implementing eco-friendly measures at dams	
		Nuclear	Activities to improve marine ecosystems	_

5 Examples of our nature-related initiatives

We disclose our major initiatives for natural capital based on the AR3T framework proposed by SBT for Nature, which organizes response measures to risks and opportunities surrounding natural capital.

Coexistence with nature

The electric power business is an industry that relies on and may have a major impact on natural capital such as land and water. To reduce our impact on nature, we appropriately manage this impact by complying with relevant laws and regulations, environmental assessments, and our own independent standards. We will also continue to promote initiatives aimed at realizing nature positivity.

Avoidance and mitigation of impacts on nature

Goal: Ensure ongoing efforts to conserve ecosystems

Environmental assessment

When executing a project, we investigate, estimate and assess its impact on the environment in accordance with relevant laws and regulations and implement appropriate ecosystem-related environmental conservation measures while listening to the opinions of local community members.

During construction of transmission lines and substations, we transplant plants or reduce the construction area to avoid the loss of rare plant species. To protect birds of prey, we alter helicopter flight paths used for construction and transport of materials. After construction is complete, we make efforts to restore the surrounding natural environment, minimizing ecological impact.

Sustainable management of company-owned forests—Uchigatani Forest (Gujo City, Gifu Prefecture)

To ensure the diverse functions of forests through efficient forest operations and appropriate forest protection, we carry out forest management centered on thinning.

Even unused thinned timber that cannot be processed into lumber is utilized in a cascading manner, allowing for sustainable business operations.



Uchigatani Forest (Gujo City, Gifu Prefecture)

Eco-friendly measures at dams

Many dams do not merely store water for power generation; they also release water to serve purposes such as protecting aquatic plants and animals downstream, supporting fisheries, preserving landscapes, and maintaining river flow.

Fishways of appropriate size and structure are installed to accommodate the target species and ensure that migratory fish can travel upstream and downstream. Driftwood and household waste that accumulate in the dam are collected, sorted, and disposed of as waste. Some usable driftwood is repurposed into wood products or mulching material for agricultural use.



Fishway installed in a dam

Restoration and regeneration of nature

Goal: Promote ecosystem recovery and regeneration initiatives

Development of human resources capable of engaging in forest conservation activities

Since the electric power business relies on natural capital such as water, we contribute to forest regeneration—especially in forests with water source recharge functions—by developing Chuden Foresters who acquire thinning techniques for deteriorating artificial forests. Since FY2005, a total of 320 individuals have been trained, and graduates are involved in forest conservation activities in various regions.



Development of Chuden Foresters

Marine environmental surveys and conservation/restoration activities

To preserve the marine environment around the Hamaoka Nuclear Power Station, we have been conducting periodic surveys and long-term conservation and restoration activities, working together with local communities to protect rich marine ecosystems.

[Environmental survey]

The Hamaoka Nuclear Power Station Coastal Area Survey Committee, composed of local fishery cooperatives and Chubu Electric Power, conducts quarterly surveys and reports the findings. These surveys confirm that the intake and discharge of seawater used for cooling do not have adverse

marine impacts.



Ecklonia cava, for which we are creating beds

[Environmental conservation and restoration activities]
Under this committee, the Task Force for Measures Against Sea
Desertification works on restoring seaweed beds and recovering
marine resources. By reducing grazing damage on seaweeds and
regenerating seaweed beds, we aim to restore biodiversity in the
marine area and to recover previously abundant marine resources,
such as abalone, in these regenerated habitats. We are also
advancing research to make these efforts possible.

Removal of invasive alien species

We are studying methods to eliminate only target invasive alien plants such as burr cucumber and cutleaf coneflower, which proliferate around dam lakes and rivers, to contribute to ecosystem conservation.

This study led to the establishment of a chemical spraying program that gradually weakens only the burr cucumber, allowing surrounding vegetation to remain intact.



Before testing (2014): Vines of burr cucumber covering the grassland



Five years after testing (2022)
No regeneration of burr
cucumber observed

6 Metrics and Targets (Prepare)

1 TNFD global core metrics and power sector core metrics

No.	Driver of nature change	Metric	Disclosure * FY2024 or at the end of FY2024		
_	Climate change	GHG emissions * Scope of calculation: Chubu Electric Power Co., Inc., Chubu Electric Power Grid Co., Inc. and Chubu Electric Power Miraiz Co., Inc.	Scope 1: 0.06 million t-CO ₂ ; Scope 2: 2.38 million t-CO ₂ ; Scope 3 (total of all categories): 54.33 million t-CO ₂		
C1.0		Total spatial footprint	[Chubu Electric Power] Hydro: 56,331,000 m²; Nuclear: 1,794,000 m²; New energy and others: 182,000 m²; and Operation-related facilities: 955,000 m² [Chubu Electric Power Grid] Power transmission facilities: 8,707,000 m²; Power transformation facilities: 7,789,000 m²; Power distribution facilities: 3,000 m²; and Operation-related facilities: 21,000 m²		
C1.1	Land/ freshwater/ ocean-use change	Extent of land/freshwater/ocean-use change Area of land/freshwater/ocean ecosystems that are conserved or restored Area of land/freshwater/ocean ecosystems under sustainable management	Total water withdrawal: 50,952 million m ³		
EP.C1.1		Percentage of total water flow in hydropower used as environmental flow* (%) * Environmental flow: A portion of river flow left in the river to maintain healthy river ecosystem functions	Our hydropower plants discharge maintenance flow as needed based on national guidelines to ensure environmental flow downstream. Maintenance flow is always released at the designated rate, monitored continuously via surveillance cameras on discharge facilities and verified during on-site patrols.		
EP.C1.2	Amount of sediment removed from hydro		(Disclosure to be enhanced in the future)		
C2.0		Pollutants released to soil split by type	None		
C2.1		Wastewater generated	Wastewater from biomass and nuclear: 104,000 m ³		
C2.2	Pollution/ pollution removal	Weight of hazardous and non-hazardous waste generated, by type Weight of hazardous and non-hazardous waste disposed of Weight of hazardous and non-hazardous waste diverted from landfill	Industrial waste generated: 52,000 t		
C2.3		• Total weight (tons) of plastics (polymers, durable goods, packaging) used or sold, broken down by raw material, as a plastic footprint	Waste plastics included in industrial waste: 3,000 t		
C2.4		Air pollutants generated excluding GHGs, by type: • Particulate matter (PM2.5 and/or PM10) • Nitrogen oxides (NO2, NO, NO3) • Volatile organic compounds (VOC or NMVOC) • Sulfur oxides (SO2, SO, SO3, SOx) • Ammonia (NH3)	SOx emissions: 1 t; NOx emissions: 77 t		

No.	Driver of nature change	Metric	Disclosure * FY2024 or at the end of FY2024	
C3.0		Water withdrawal and consumption from areas of water scarcity including identification of water sources	None	
C3.1	Resource use/ replenishment	Volume of high-risk natural commodities sourced from land/ocean/freshwater 17 Volume of high-risk natural commodities sourced under sustainable management plans or certification programs	Operation data of Yokkaichi Biomass Power Plant: Wood pellets of approx. 130,000 t; Palm tree coconut shells of approx. 50,000 t	
EP.C3.0		Amount (tons) of nuclear waste safely and permanently stored (e.g., deep geological disposal)	Cumulative number of drums of low-level radioactive waste transported to the disposal center: 37,787	
C4.0	Invasive alien species and other	Measures against unintentional introduction of invasive alien species (IAS) Percentage of high-risk activities operated under appropriate measures to prevent unintentional introduction of invasive alien species, or designed to be low-risk	We implement necessary quarantine measures for fuels used in biomass power generation, which are procured from overseas.	
C5.0	State of nature	Ecosystem condition, species extinction risk	(Disclosure to be enhanced in the future)	
C7.0		Value of assets, liabilities, revenue and expenses that are assessed as vulnerable to nature-related transition risks	We have concluded that we have no assets that are assessed as particularly vulnerable to transition risks in the companies analyzed.	
C7.1	Risk	Value of assets, liabilities, revenue and expenses that are assessed as vulnerable to nature-related physical risks	We have recognized that hydroelectric power plants are more vulnerable to flood risks than other assets due to their locations. Book value of hydroelectric power plants: 270.9 billion yen (excluding land)	
C7.2		Description and value of significant fines, etc. in the year due to negative nature-related impacts	None	
C7.3		Amount of capital expenditure, financing or investment deployed towards nature-related opportunities, by type of opportunity	(Disclosure to be enhanced in the future)	
C7.4	Opportunity	Increase and proportion of revenue from products and services producing demonstrable positive impacts on nature with a description of impacts	(Disclosure to be enhanced in the future)	

2 Targets

Biodiversity

We are committed to the conservation of biodiversity through consideration of ecosystems in our business activities and efforts in technological development and research.

Goal Ensure ongoing efforts to conserve ecosystems

Water resources

We are committed to the sustainable management and efficient utilization of water resources.

Goal Minimize water usage in our offices

Water conservation in offices and increased employee awareness
of water conservation: We work to raise water-saving awareness of
employees and reduce water use by proactively introducing water-saving
sanitary equipment as a measure to save water and by calculating and
visualizing the amount of water used by each employee.

Goal Minimize environmental impact through responsible water resource utilization

- Forest preservation activities including the protection of watershed protection forest: We are engaged in activities to preserve Uchigatani Forest and other forests.
- Appropriate use of water in dam operations: We conduct dam discharge
 to keep the required river flow volume in order to protect animals and plants
 as well as fisheries and landscapes and ensure the cleanness of river water.

Recycling-oriented society

We promote resource conservation, waste reduction and the reuse/recycling of resources to minimize disposal.

Goal Achieve a recycling rate of over 95% for industrial and other waste

- Recycling rate of industrial and other waste: 99.0% (FY2024 result)
- Recycling clearance metals*: We are recycling clearance metals generated as a result of the decommissioning
 of Units 1 and 2 of the Hamaoka Nuclear Power Station. Currently, we are working with a local company to
 create metal covers for gutters by using clearance metals.
- * Among the radioactive waste generated when decommissioning or operating nuclear power plants, metal scraps that have been checked and confirmed by the national government as having low radioactive concentration and a negligible effect on human health are called clearance metals. Clearance metals can be reused, recycled or disposed of just like ordinary waste.





Recycling clearance metals

Appendix: TNFD General Requirements

Application of materiality

In the analysis we have conducted based on the TNFD recommendations, we have organized the information we disclose based on two approaches. One is the financial materiality approach advocated by the International Sustainability Standards Board (ISSB). It requires companies to disclose material information on sustainability-related risks and opportunities that can reasonably impact significantly corporate outlooks of financial performance. The other is the impact materiality approach used by the Global Reporting Initiative (GRI), requiring organizations to give priority to reporting their most significant impacts on the economy, environment and people, including human rights.

2 Scope of disclosures

Refer to Scop (page 8)

3 Location of nature-related issues

Refer to Locate (page 9)

4 Integration with other sustainability-related disclosures

• Please refer to the table below for additional, relevant nature-related disclosures, other than those disclosed in this Report.

Disclosure	Disclosure means	URL	
Response to the TCFD recommendations	Chubu Electric Power website	https://www.chuden.co.jp/english/esg/environment/initiatives/tc	
CDP scorings (A- for both climate change and water security)	Chubu Electric Power website	https://www.chuden.co.jp/english/esg/environment/initiatives/cd	
Chubu Electric Power Group Environmental Communication Book	Chubu Electric Power website (Japanese only)	https://www.chuden.co.jp/csr/environment/kohyo/env_report/	
ESG-related performance data	Chubu Electric Power website	https://www.chuden.co.jp/english/corporate/annualreport/#link3	

We are also considering future scenario analyses that integrate climate change and the implementation of risk assessments.

5 Time horizons considered

As in the case of disclosures based on the TCFD recommendations, we conduct analysis over a short term (one year), medium term (five years) and long term (six to 10 years).

6 Engagement of affected stakeholders

We have formulated the Chubu Electric Power Group Basic Human Rights Policy and undertake business while supporting and respecting international norms related to human rights, including the International Bill of Human Rights and the International Labour Organization (ILO) Declaration on Fundamental Principles and the Rights at Work.

As for the Hamaoka Nuclear Power Station, we are working to gain the trust of local communities and society by communicating efforts undertaken at the power station through various means, including power station tours, information dissemination through leaflets and social media, and briefing sessions and through activities to listen to the opinions and requests of local residents and respond to each in a sincere manner.

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