



Disclosure Based on TCFD Recommendations

TCFD Metrics & Targets

Zero Emissions Challenge 2050

Together with communities and our customers, we aim to simultaneously achieve “decarbonization” and “safety, stability and efficiency” through the innovation of the energy infrastructure.

2030

- We will reduce CO₂ emissions from electricity sold to customers by **50% or more compared with FY2013**.
- We aim for 100% electrification*^{1,2} of company*³-owned and operated vehicles.

2050

- We will take on the challenge of attaining **net zero CO₂ emissions** for our entire business to contribute to the realization of a carbon-free society.



GX

League

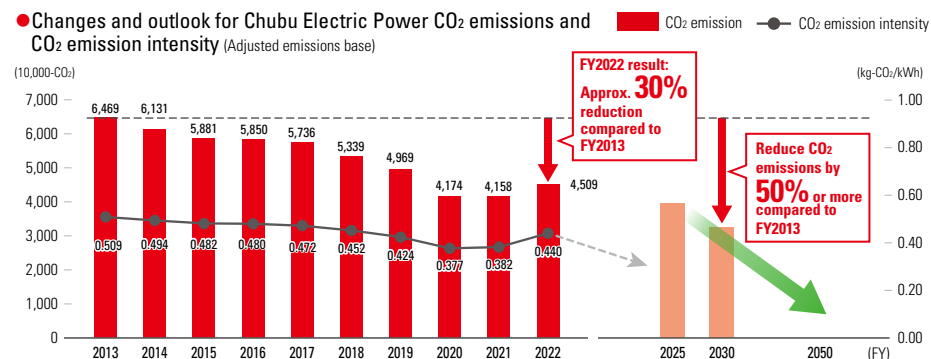
Chubu Electric Power is participating in the “GX League,” an initiative established in accordance with the “GX League Basic Concept” published by the Ministry of Economy, Trade and Industry.

Targets for FY2025 after GX League registration*⁴

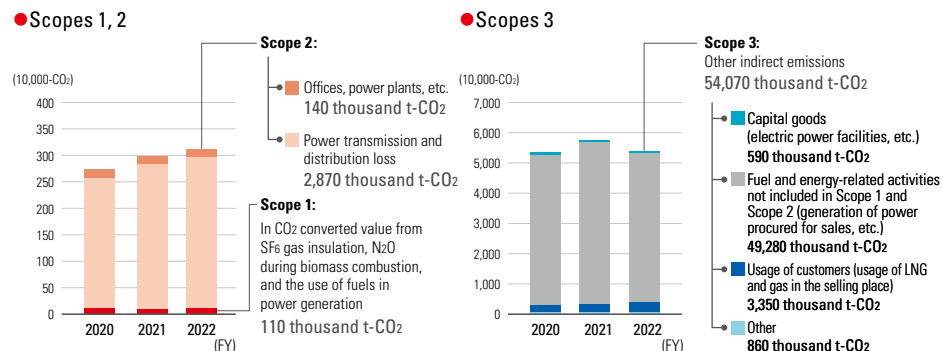
- ◎ Domestic direct emissions: **50 thousand t-CO₂**
- ◎ Domestic indirect emissions: **130 thousand t-CO₂**
- ◎ CO₂ emissions from electricity sold to customers: **39.8 million t-CO₂**

*1 Electric vehicles (EV), plug-in hybrid vehicles (PHV), fuel cell vehicles (FCV), etc.
 *2 Excludes special vehicles such as emergency and construction -use vehicles not suitable for electrification
 *3 Chubu Electric Power, Chubu Electric Power Grid, Chubu Electric Power Miraiz
 *4 Target values of Chubu Electric Power, Chubu Electric Power Grid and Chubu Electric Power Miraiz
 *5 Target values may be adjusted in case of changes in system design or other factors.

CO₂ emissions and emission intensity pertaining to electrical energy sold by the Company



Total greenhouse gas (GHG) emissions* from the entire supply chain

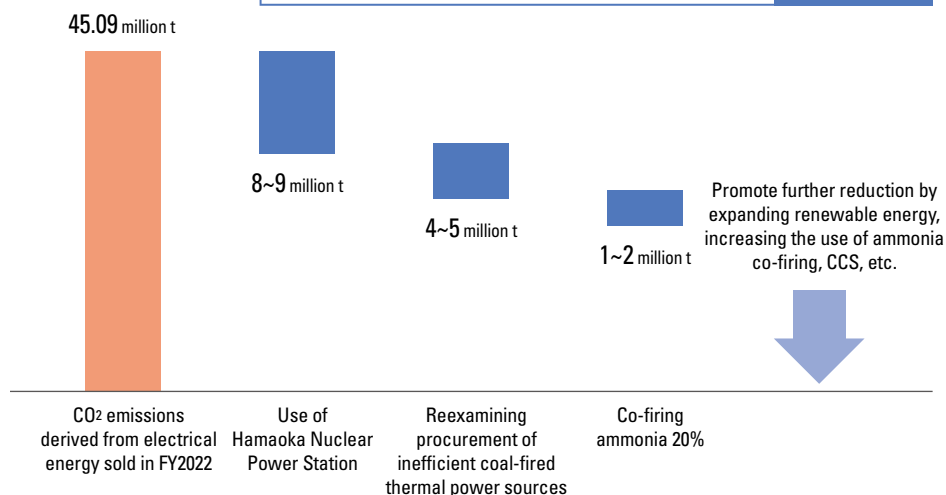


* GHG emissions represent CO₂ converted total value of CO₂, CH₄, N₂O, HFC and SF₆. Represents a total of the three companies of Chubu Electric Power, Chubu Electric Power Grid and Chubu Electric Power Miraiz.

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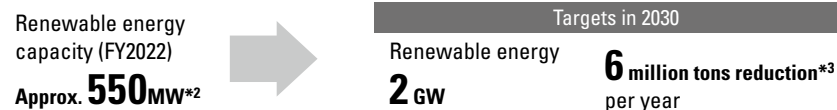
CO₂ reduced by key measures

Use of Hamaoka Nuclear Power Station (When restarting Units 3, 4 and 5)	Approx. 8-9 million t-CO ₂ /year
Reexamining procurement of inefficient coal-fired thermal power sources (When substituting inefficient coal-fired power generation with other power sources)	Approx. 4-5 million t-CO ₂ /year
Promote ammonia co-firing for coal-fired power*1 (When co-firing ammonia 20% rate with one or two 1-million kW coal-fired power plants)	Approx. 1-2 million t-CO ₂ /year



*1 The specific power sources are yet to be determined. The provided values are based on the assumption of a scenario where 20% ammonia co-firing is applied to a portion of Chubu Electric Power Mirai's sourcing.

[Reference] CO₂ reduction effects from global business activities abroad



*2 International renewable energy capacity. For domestic renewable energy, the capacity at the end of FY2022 was approximately 740 MW, with aims to expand to over 3.2 GW by around 2030.

*3 Overall emissions reduction from global operations, including not only the renewable energy business but also other businesses.

Issuing Green Bonds



Based on the dual perspective of promoting initiatives for realizing a decarbonized society and diversifying fund procurement, Chubu Electric Power issues Green Bonds, which are bonds that limit the use of procured funds to environmental improvement projects such as the development of renewable energy. In the issuance of Green Bonds, we have received acclaim from DNV BUSINESS ASSURANCE JAPAN K.K., a third-party assessment organization, regarding the suitability of our various standards related to the issuance of Green Bonds.

Reporting on the second Chubu Electric Power Green Bond (issued in May 2022)

Appropriation of procured funds (As of March 31, 2023)

Item		Amount
Procurement amount (amount received)		19.9 billion yen
Appropriated amounts		19.9 billion yen
(breakdown)	Seinaiji Hydro Power (Nagano)	1.2 billion yen
	Abekawa Hydro Power (Shizuoka)	2.3 billion yen
	Yokkaichi Biomass (Mie)	4.4 billion yen
	Aichi Gamagori Biomass (Aichi)	0.9 billion yen
	Godo Biomass (gifu)	0.3 billion yen
	Omaezaki Port Biomass (Shizuoka)	0.9 billion yen
	Kamisu Biomass (Ibaraki)	0.9 billion yen
	Yatsushiro Biomass (Kumamoto)	1.5 billion yen
	Yonago Biomass (Tottori)	2.6 billion yen
	Tahara Biomass (Aichi)	1.7 billion yen
	Atsumi Onshore Wind Power (Aichi)	2.4 billion yen
Akita Port/Noshiro Port offshore wind power (Akita)	0.1 billion yen	
Unappropriated balance		—

*1 Figures less than the expressed unit are rounded down. *2 Of the amount procured, 7.7 billion yen was allocated to the refinancing.

Environmental improvement effect (April 2022–March 2023)

Project	Installed capacity	Amount of CO ₂ emission reductions
Yokkaichi Biomass (Mie)	49,000 kW	325,964 (t-CO ₂ /y)
Yonago Biomass (Tottori)	47,500 kW	
Akita Port/Noshiro Port offshore wind power (Akita)	54,500 kW (Akita Port) 84,000 kW (Noshiro Port)	

*1 Annual CO₂ emission reduction calculation method: FY2022 annual power generation volume (MWh) x CO₂ emission coefficient (t-CO₂/MWh)

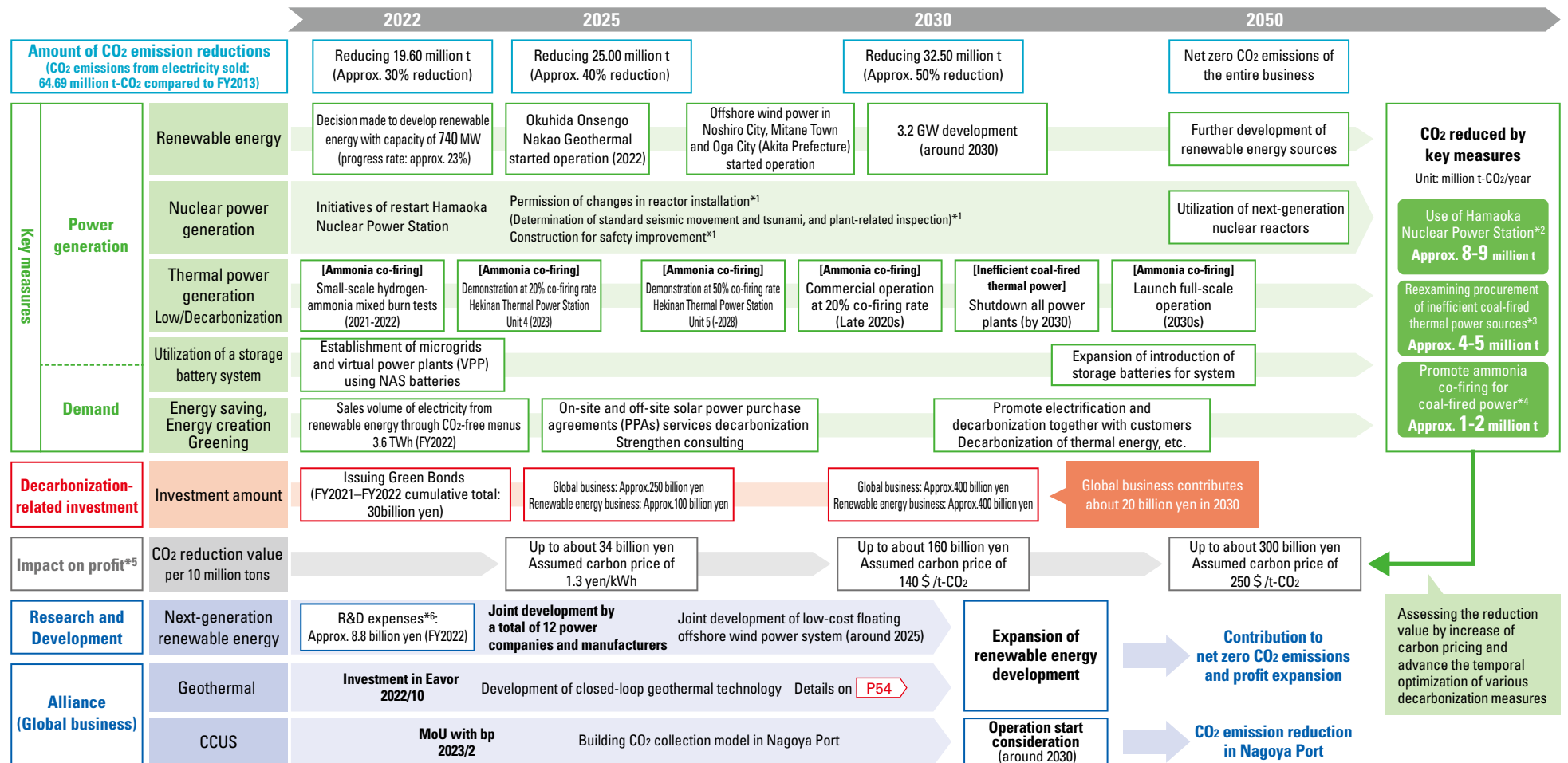
*2 Of the power plants listed in appropriation of procurement funds, we plan to report on the environmental improvement effects for the power plants under construction as of March 31, 2023, after they commence operation.

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We are advancing decarbonization through three pillars: renewable energy development, ammonia co-firing, and the restart of the Hamaoka Nuclear Power Station.

In renewable energy development, particularly offshore wind power, the consortium the Group participates in has been selected as a power generation operator for three offshore regions, marking a successful start. Efforts will continue in this direction. Moreover, JERA is at the forefront of ammonia co-firing globally, and we are also working towards decarbonizing energy beyond electricity, offering ammonia solutions for customer facilities.

Furthermore, the Hamaoka Nuclear Power Station is a significant power source, not only for ensuring stability and decarbonization but also for stabilizing prices. We are approaching its reactivation with a focus on safety, while seeking the understanding of the local community.



*1 The specific timing for the completion of the inspections for confirming conformity to new regulatory requirements and the restart schedule have not been established, but efforts are being made to achieve an early restart. *2 In the case of restart of Units 3, 4, and 5 at Hamaoka Nuclear Power Station. *3 In the case of replacing inefficient coal-fired power generation with other sources. *4 In the case of ammonia 20% co-firing in 1-2 units of 1 million kW-class coal-fired power generation. *5 Calculated based on non-FIT non-fossil fuel energy certificate prices, IEA WEO (NZE Scenario) developed nation carbon prices, etc. *6 Including research and development expenses in fields other than decarbonization.