

Zero Emissions Challenge 2050 New challenge towards a Carbon Free Society

23rd March 2021 Chubu Electric Power Co., Inc.



Chubu Electric Power Group

- ✓ Energy Infrastructure supporting People's Lives and Industries
- ✓ Energy Saving and Electrification
 by Energy Solution Technology



Chubu Region

- Innovative Technologies by manufacturing
- Realize Recycle-oriented society by leveraging well-balanced industrial structure

Maximize / combine our solution expertise with innovative technologies

- *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

2050 From Chubu Region to the World

- Electric Power
- Taking advantage of the characteristics of the Chubu region, which boasts abundant nature and **a** thriving agriculture sector and industries, we believe it is essential to quickly proceed with the promotion of a recycling-oriented society and the introduction of self-distributed systems in collaboration with industry, government and academia.
- The Chubu Electric Power Group will provide the foundation to support the promotion and introduction of these, and together with residents of local communities, will disseminate these initiatives taken in the Chubu region to the rest of Japan and the world.

Characteristics of the Chubu Region

Abundant water resources Abundant land and nature



Proximity to work and residences Situated in the center of the country with key transportation hubs

Potential

- Balanced industrial structure Foundation for introducing distributed power sources such as solar power and hydropower
 - Higher-added value such as suburban horticultural agriculture that utilizes the region's warm climate
 - Possibility of using agricultural biomass
 - Utilization of a diverse concentration of supply chains such as those of components manufacturers
 - Innovation such as development of fuel cell components
 - Besides manufacturers, there are also numerous recycling companies
 - Utilize a decentralized regional structure centered on cities
 - Create convective flows and interchanges of people, goods and information
 - Strengthen collaboration and functions among universities and promote globalization
 - Strengthen disaster prevention capabilities (resilience) through collaboration among bases and wide-region supplementation

Promote the introduction of recycling-oriented and self-distributed systems

Optimization of production, consumption and reuse (recycling-oriented society)

Promote the introduction of recycling-oriented and self-distributed system

Recycled use of resources and energy (decarbonization)

Shizuoka

Nagano

Gifu

Aichi

Mie

Efforts for "Zero Emissions Challenge 2050"





* Abbreviation of Carbon dioxide Capture, Utilization and Storage technology that separates and recovers carbon dioxide for effective use or storage



Roadmap for Zero Emissions Challenge 2050



This is a Company initiative based on national policies and the target values may be adjusted in the event the system design is changed in the future. The initiative is also premised on the steady progress of decarbonization technology and economic rationality.

Foundation supporting the Zero Emissions Challenge 2050

- CHUBU Electric Power
- Each employee of the Chubu Electric Power Group will work together with local communities to realize a carbon-free society, coexistence with nature, and recycling-oriented society under the Chubu Electric Power Group Basic Environmental Policy.
- We have newly established the Zero Emissions Committee, which reports directly to the president, and will further enhance our corporate governance for environmental management.
- We will promote technological development for innovation in collaboration with industry, government and academia.
- We will actively and efficiently invest and diversify our financing such as Green Bond * and other means.

Chubu Electric Power Group Basic

Environmental Policy

Contributing to the realization of a carbon-free society

Coexistence with nature

In order to protect a rich natural environment, we will conduct our business activities with consideration for biodiversity and the sustainability of water resources.

Creating a Recycling-oriented Society

• We will strive to minimize the amount of waste disposed of by curbing consumption of resources, controlling the generation of waste, and promoting the reuse and recycling of resources.

Greater environmental awareness

- Deepening communication with local communities
- We will contribute to society by nurturing human resources who can voluntarily act in an environmentally conscious manner.



(Reference) Initiatives in cooperation with communities and customers



> Electrification and Decarbonization with communities and customers

Triad consisting of "Energy Saving", "Energy Creation", and "Energy Activation"



(Reference)Chubu Electric Power Group's Contribution to "Green Growth Strategy*"





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