

Chubu Electric Power Group Initiatives Pursuing Our Management Vision

—Our Value Provision Looking Toward 2050—

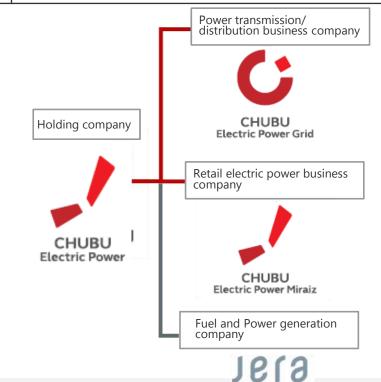
March 23, 2021 Chubu Electric Power Co., Inc.

Chubu Electric Power Group Initiatives Pursuing Our Management Vision—Our Value Provision Looking toward 2050— Contents



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Introduction



The social structure is being dramatically reshaped by accelerating initiatives toward digital transformation (DX) and decarbonization as well as by the permeation of new lifestyles such as new living and workstyles accompanying the spread of COVID-19. Particularly noteworthy, amid the setting of national policy goals aimed at achieving carbon neutrality in 2050, the environment surrounding the energy business has reached a major turning point that includes the progression of considerations for the next Basic Energy Plan.

The Chubu Electric Power Group, consisting of Chubu Electric Power, Chubu Electric Power Grid, Chubu Electric Power Miraiz and respective Group companies, will serve their respective markets and customers. Backed by strong collaboration, we will contribute to the realization of a safe, secure and strong society where people can live comfortably. To do so, the Group will provide a Community Support Infrastructure that packages safe, inexpensive and stable environmentally conscious energy with services that enrich and enhance people's daily lives.

At this time, the Company has compiled its specific initiatives for achieving its Management Vision as the **Initiatives for Realizing the Management Vision** and has set the latter half of the 2020s as a target date for attainment. Furthermore, as a responsible energy provider, we have **established the Chubu Electric Power Group's Zero Emissions Challenge 2050 as our new challenge toward realizing a carbon-free society in 2050.** We will step up efforts, beginning with our immediate tasks, toward attaining our long-term goals.

Based on our recognition that the business activities of the Chubu Electric Power Group are the essence of ESG (Environmental, Social, Governance), we will deepen our ESG management and contribute to solving SDG issues through the combined efforts of each employee.

We aim to be a corporate group that can win the trust of all stakeholders by adhering to our unchanging mission of providing a stable supply of energy and delivering new services that contribute to resolving social issues.

March 2021 President and Director Chubu Electric Power Co., Inc. Hayashi Kingo



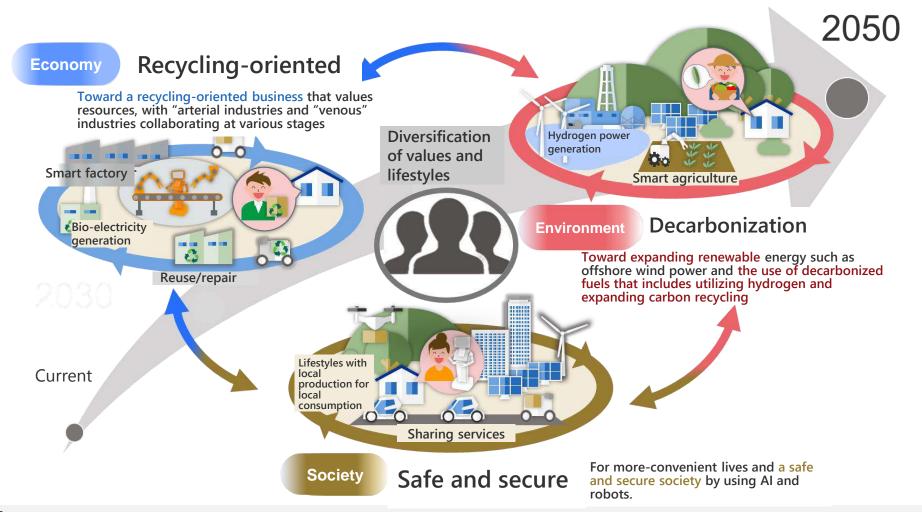


I Toward 2050

Image of Japanese Society in 2050



- We envision that Japanese society in 2050 will take on the challenge of decarbonization and evolve into a safe, secure and recycling-oriented society through the sophistication of its social infrastructure.
- > The Chubu Electric Power Group will contribute to a new society through innovations in the energy infrastructure.



2050 From the Chubu Region to the World



Nagano

Shizuoka

- 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

Balanced industrial structure

Abundant water resources
Abundant land and nature

Concentrated manufacturing industry and advanced technologies

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

Potential

 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

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

Mie

Recycled use of resources and energy (decarbonization)

Gifu

Aichi



Providing Value to Society and Customers

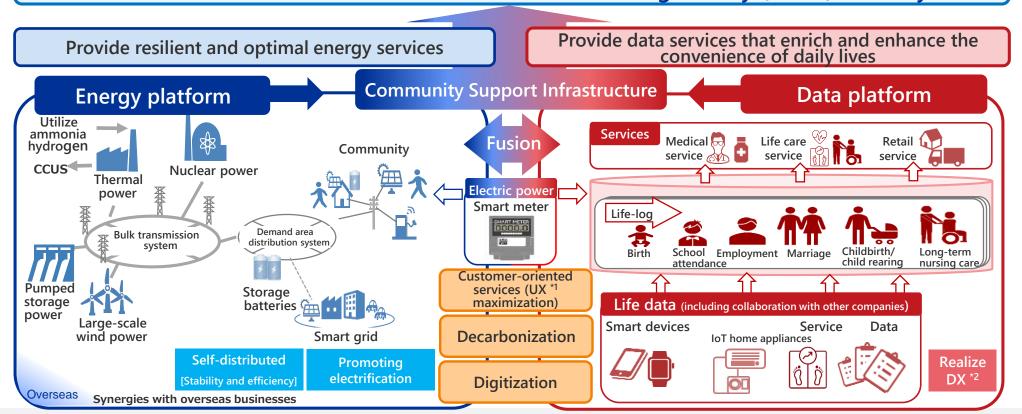
The Chubu Electric Power Group will provide a package of **resilient and optimal energy services and data services that enhance convenience and enrich lives**. **By providing these community support infrastructures**, we will contribute to the realization of a safe, secure, strong and viable society.

Carbon-free society

Recycling-oriented society

Safe and secure society

Contribute to the realization of a safe, secure and strong society (SDGs) -Society 5.0-



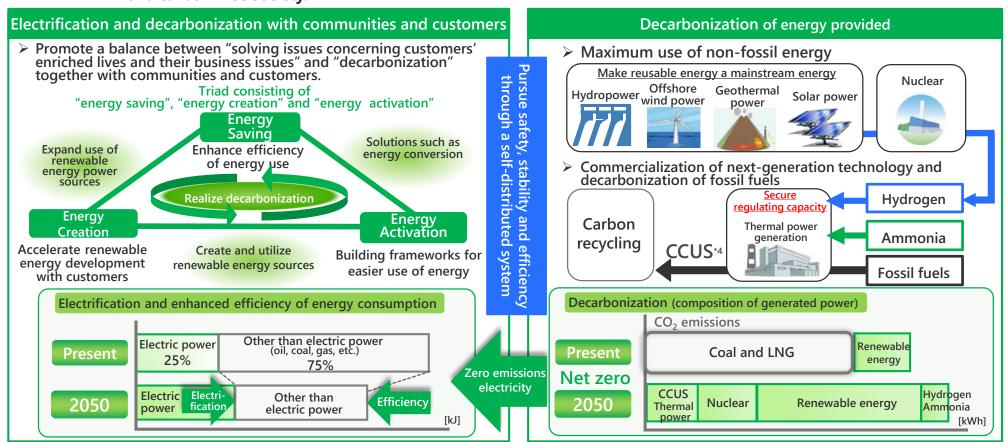


Contribute to a Carbon-Free Society (Zero Emissions Challenge 2050)

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

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

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.



*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 Abbreviation of Carbon dioxide Capture, Utilization and Storage technology that separates and recovers carbon dioxide for effective use or storage Copyright @ Chubu Electric Power Co., Inc. All rights reserved.

Net zero Contribute C02 to the realization of a carbon free society

emissions

2050

Roadmap for Zero Emissions Challenge 2050



Enhance the efficiency of energy use in society as a whole

2030 Reduce CO₂ emissions by 50% or more (approximately 32.5 million ton reduction)

Commercialize and adopt innovative technology through innovation

Simultaneous achievement of "decarbonization" and "safety, stability, efficiency" in the entire energy infrastructure

Chubu Electric **Power Group Solutions**

Promote electrification and decarbonization together with customers

- Decarbonization of thermal energy
- Utilization of unused energy
- Resource recycling business

Supply and demand adjustment for the electric power system

- Expand the introduction of system- use storage batteries
- Supply and demand adjustment through distributed grid

Utilize next-generation technology Build and utilize hydrogen supply chain, hydrogen production and storage

Utilize zero emission thermal power

- Expand ammonia/hydrogen Co-firing
- Utilize CO2 offset technologies

Innovation in the Chubu region

Effective use of the grid

- Self-distributed power system
- Electrification of mobility
- Intraregional energy sharing

Conversion to nextgeneration network

- Rational facility formation
- Secure regulating capacity (utilize hydrogen, etc.)

Utilize and apply next-generation nuclear reactors with outstanding safety

• SMR • High temperature gas-cooled reactor

Further development of renewable energy power sources

- Proactively develop offshore wind power
- Solar power utilizing vacant land

Industry-government-academia collaboration that leverages the potentials of the Chubu region

Energy saving Together with our customers

Energy creation

Energy activation

- Provide energy management services (expanding energy savings)
- Diversify CO₂-free menu (improve non-fossil fuel ratio)
- Provide services that support electrification
- Create appealing and livable communities (local production for local consumption)

Power transmission and distribution Strengthen wide-area interconnection of unevenly distributed renewable energy Sophisticate and widen the area of supply and demand operations

East-West interconnection capacity 3,000MW (FY2027)

- Build and operate a distributed grid
- Expand power transmission capacity and utilize storage batteries
- Adopt SF6* alternative gas equipment
- Utilize the Hamaoka Nuclear Power Plant on the premise of ensuring the safety and communities understanding
- Accelerate renewable energy development (more than 2,000MW by around 2030)
- Proactive investment for development of overseas renewable energy (Europe, Asia, North America)

Strategic investment in renewable energy 100 billion yen Overseas 200 billion yen Deploy overseas ⇔ domestic synergies

- Fade-out of inefficient coal-fired thermal power
- Utilize high-efficiency thermal power
- Develop new technologies such as ammonia/hydrogen Co-firing

* Sulfur hexafluoride A gas used as an insulator such as in substation equipment. Sulfur hexafluoride is designated as a gas subject to global warming prevention and emission controls.

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.

1619



Power

generation



Initiatives Pursuing the Chubu Electric Power Group Management Vision

Chubu Electric Power Group Management Vision (Formulated March 2018)





Attainment of Our Unchanging Mission

Providing high-quality energy in a safer, more affordable and more stable manner





Provide new services that respond to changes in the business environment

Vision

<u>"A Total Energy Service Corporate Group that is one step ahead"</u> and leads the industry in providing customers with services that exceed expectations

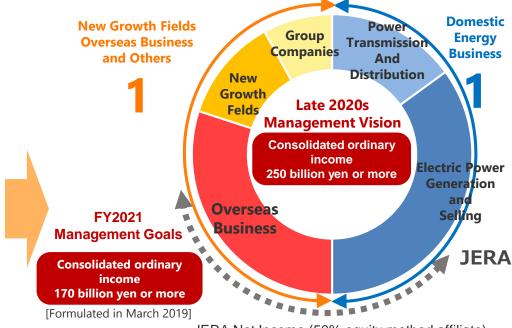
Initiatives

Energy Business

- 1. Transition to a business model that separates the power transmission and distribution businesses
- 2. Initiatives for establishing a business model that separates the power transmission and distribution businesses
- 3. Contributing to the achievement of a low-carbon society

Providing a "new form of community"

- 1. Services that aim to utilize data to improve the quality of life of individuals
- 2. Services to the community by connecting and evolving multiple social infrastructures
- 3. Provide a "new form of community"



JERA Net Income (50% equity method affiliate) Late 2020s around 200 billion yen

Specific Initiatives for Realizing the Management Vision



2050

Contributing to the transition of social and industrial structures toward the sustainable development of society and the realization of Society 5.0

Decarbonized society

Recycling-oriented society

Safe and secure society

Initiatives

Realize Management Vision (attain ordinary income of 250 billion yen)

Contribute to the realization of a safe, secure and strong society where people live comfortably by providing community support infrastructures (contribution to SDGs)

Build energy platform construction

(Realize advanced supply and demand management)

• Facilities formation and operation that responds to supply and demand fluctuations

- Expansion of renewable energy (2,000 MW or more)
- Fade-out of inefficient coal-fired thermal power
- Provide aggregate services
- Utilize Hamaoka Nuclear Power Plant

Solve social issues Maximize UX

Build data platforms

(Realize convenient and comfortable lives)

- **Expand and upgrade services tailored to customer** lifestyles
- Provide services centered on energy, healthcare and life data
- Identify customer needs by utilizing data



2021

Expand real estate and overseas businesses

A Foundation that Supports Our Management Vision

Human resources

Finance

Assure and improve safety, health and skills to realize the development and utilization of diverse

human resources Financial strategy

Technology development Technology development to enhance S + 3E

Productivity improvement through commercialization support

Compliance

Strengthen governance

Coexistence with local communities

Regional coexistence through industrygovernment-academia collaboration

Improve productivity by

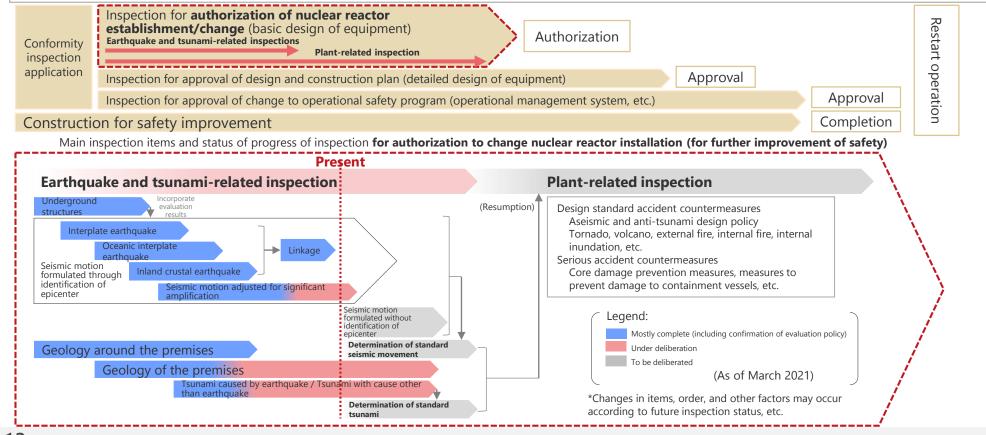
strengthening the

management base

Responding to the Inspection of Our Conformity with New Regulatory Standards by the Nuclear Regulation Authority at the Hamaoka Nuclear Power Plant



- Responding to the Inspection of Our Conformity with New Regulatory Standards by the Nuclear Regulation Authority at the Hamaoka Nuclear Power Plant acting with the firm resolve never to repeat an accident similar to the one that occurred at the Fukushima Daiichi Nuclear Power Station, we are promoting measures to enhance the safety at the Hamaoka Nuclear Power Plant. We are undergoing an inspection of our conformity with new regulatory standards by the Nuclear Regulation Authority.
- We believe that nuclear power generation, a power source that does not emit CO₂ during electric power generation, will play a key role toward achieving the government's target of zero greenhouse gas emissions by 2050.
- In the future, we will continue to autonomously promote initiatives to further raise safety and proceed with preparations for continuing to utilize the Hamaoka Nuclear Power Plant as an important power source and will take our utmost efforts to gain the understanding of these initiatives by society, including the local community.



Aiming for a Safer and Trustworthy Hamaoka Power Plant



- Management staff, led by the president, takes responsibility and strengthens nuclear power governance, risk management and risk communication.
- To strengthen governance, we are building a framework to ascertain internal and external opinions and evaluations of risks and execute proper management decisions.
- Besides facilities-related measures, we are strengthening risk management such as by bolstering on-site response capabilities for the effective functioning
 of equipment in emergencies, fortifying cooperation with national and local governments and other power companies in case of emergencies, and making
 improvements based on third-party reviews.
- We will disseminate information about these safety improvement initiatives through opinion exchanges with community residents and power plant caravans, while strengthening risk communication for listening to local residents, addressing their concerns and doubts.



Strengthen risk management



Strengthen on-site response capabilities by increasing and strengthening the emergency response specialist team



Collaborative drills with Omaezaki Coast Guard Office, Fire Department of Omaezaki city, Kikugawa Police Station, and Omaezaki city



Improvements based on third-party reviews



Cooperation with Tokyo Electric Power HD and Hokuriku Electric Power (acceptance of evaluators for comprehensive training)

Strengthen risk communication



Opinion exchange meetings with residents of local communities



Power plant caravans that set up booths at local events and explain the power plant's initiatives

For detailed information, please see Nuclear Power Hamaoka Nuclear Power Plant on our website.

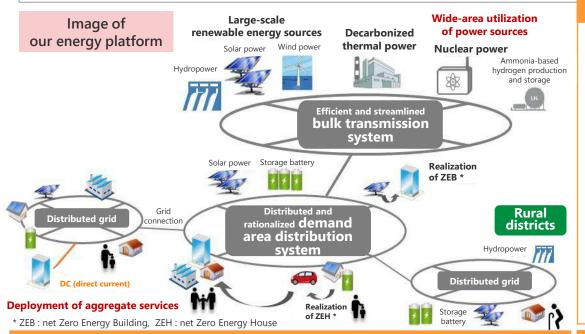
Providing Resilient and Optimal Energy Services Our Envisioned Energy Platform



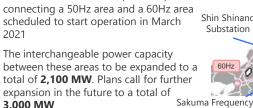
By expanding the introduction of renewable energy, we will develop a next-generation power transmission and distribution grid that achieves both wide-area utilization of power sources and the advance of local production for local consumption as we strive to improve stable supplies and resilience even amid shifts in the flow of electricity.

We will utilize distributed energy resources (DER) such as power sources that connect storage batteries, EVs and solar power generation to deploy

aggregate services.



Strengthen wide-area interconnection

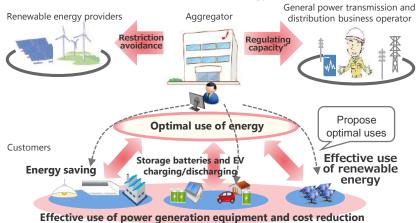


Hida Converter Station (900 MW)



Deployment of aggregate services

We will make proposals for the effective utilization of customers' power generation facilities and for energy-saving initiatives that will reduce their energy costs. We will also deploy services that utilize accumulated surplus power and provide supply and demand regulation and services that enable customers to avoid restraints on renewable energy.



Resilience improvement

Consider building an emergency microgrid utilizing

DER such as local storage batteries, solar power generation and EVs

Aim to **improve resilience** such as in times of disaster.



Toward Strengthening Resilience Disaster Response with the Group Working in Unison



Taking into consideration recent natural disasters, we are working to strengthen resilience to improve our response to large-scale disasters. We will work to share information with society and customers and strengthen our facilities restoration system as the Chubu Electric Power Group works in unison to implement disaster response.

"Dissemination of information via app" to enable customers to obtain and use information

Chat posts on the power outage information app



line contact)



Initiatives for the quick restoration of facilities

Assuming damage to substations caused by large-scale disasters, we implement installation training encompassing group companies for quick recovery using self-driving mobile substations.



Installation work for connection cables



Work for connecting cables to mobile substation

Cooperation with local aovernments

Strengthening mutual cooperation in times of emergency



Trees that could cause damage by falling are cut down in advance in cooperation with local governments.

↓Before cutting down

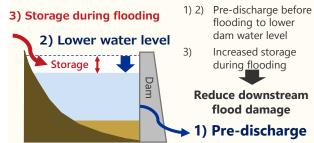


↓After cutting down



Use of hydroelectric dams for flood control

When flood damage is anticipated, we will consider and implement initiatives to increase storage in the event of a flood through pre-discharge in cooperation with national and local governments, and other water users.



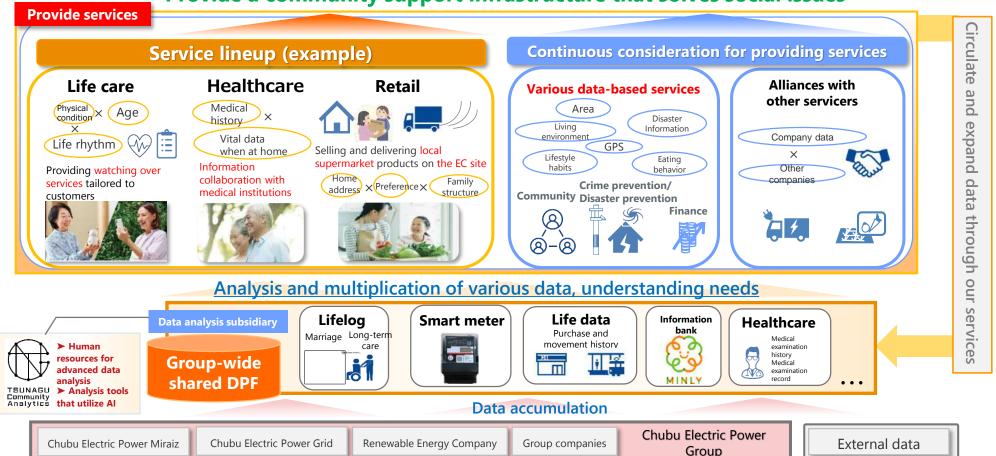


Providing Services That Enrich Society and the Lives of Customers Utilizing Data Platforms



- We will provide a variety of services by building and expanding a data platform (DPF).
- > Upon ensuring security, utilizing data such as on energy, which is our strength, we will provide services closely attuned to the needs of each customer as well as provide a community **support infrastructure and maximize UX.**

Deliver optimal services to each and every customer Provide a community support infrastructure that solves social issues



Providing a Community Support Infrastructure Creating New Value through Energy and Data



We will offer services that **utilize data and energy** and provide **a community support infrastructure** that reinforces the local community.

Connected Home Healthcare

☐ Invested in MeDaCa and converted this company into a consolidated subsidiary (9/2020)

Accelerate the building of **communication platforms** between patients and medical institutions and the development and provision of services such as **online healthcare**

MeDaCa

C MOBILITY

POWER

- Commenced telemedicine with Keio University Hospital (12/2020)
- Provide watching over service (Nekoriko)

Began providing care assistants to persons living alone (4/2020)



Began accepting appointments for monitoring robot BOCCO emo (2/2021)



Community

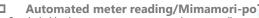
☐ Kizuna Net* (Over 1.3 million members)

* A contact network service that delivers local community information such as contacts from schools and disaster prevention information by e-mail.

Infrastructure

□ e-Mobility Power

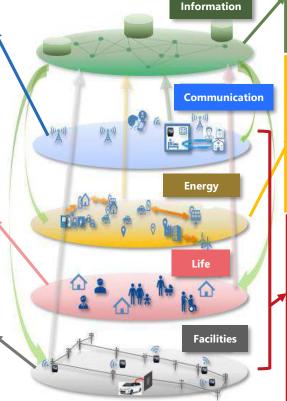
➤ Taking over the electric vehicle charging service business from Nippon Charge Service, LLC (scheduled for 4/2021)



- Concluded basic agreement on automated meter reading (multiple business operators)
- ➤ Cumulative Mimamori-pole installations exceeds 1,000 (1/2021)

Service creation

Accumulate and analyze information from each area



Information Bank / Data Platform

- □ Community-oriented information banking service "MINLY"
- ➤ Promotion of information bank certification service in Toyota City, Aichi Prefecture



➤ Advanced analysis of data on communities and lifestyles and the promotion of value creation



Energy Management

☐ Fleet EV Initiative

- ➤ EV truck optimal operations demonstration with Meitetsu Transportation Co., Ltd. and Esline (4/2020)
- ➤ EV Bus operation demonstration with lida City and Shinnan Koutsu Corporation (1/2021)





Community Development

- □ Convert ES-CON JAPAN Ltd. into a consolidated subsidiary (scheduled for 4/2021)
- ➤ Promote community development with the entire Chubu Electric Power Group and provide a "new form of community"



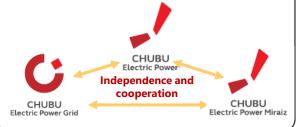
A Foundation That Supports Growth

Compliance, Safety and Health, and Coexistence with Local Communities



Compliance

Chubu Electric Power, Chubu Electric Power Grid and Chubu Electric Power Miraiz have each set up a Compliance Committee chaired by their respective presidents. Additionally, we are working to **promote compliance** for the entire Group under the Chubu Electric Power Group Compliance Committee, which is composed of the top management of Ggroup companies.



Safety and Health

Under the Chubu Electric Power Group Basic Safety and Health Policy, we are progressing with the establishment of an environment where officers. employees and partners who work together can live safe and healthy lives both in their official roles and their private lives. At the same time, by undertaking activities related to these efforts, we are nurturing a corporate culture that values people.



Safety training for top management



Selected as Health and **Productivity Management** Organization 2021

Coexistence with Local Communities

We will grow together with members of local communities by valuing partnerships with the local community and striving for activities involving coexistence with the community through industry-academia collaboration as well as by assuring safety and security and promoting education for the next generation.

Industry-academia collaboration activities



Agreement with Meijo University



Collaboration with Mie University

Assuring community safety and security



Public advertising using utility poles On-demand classes

Next-generation



New Workstyles



Meeting with teleworkers

Establish and upgrade systems and infrastructure toward realizing new workstvles that allow employees to flexibly combine a variety of workstyles and to work in an environment that is best suited to them.

Introduced in FY2021

- Review of work systems that included eliminating core time within flextime work and an expansion of telecommuting
- Implementation of "1-on-1 meetings" aimed at **enhancing** communication in remote work environments
- Realize paperless operations by introducing an electronic approval system

Diverse Human Resources Playing Active Roles



Career advancement training for employees returning to work after childcare leave with the participation of their partners

Support diverse human resources playing active roles by calling for the promotion of diversity in the Chubu Electric Power **Group's Basic Human Rights Policy.**

Targets (FY2025)

- Number of female managers: More than triple from FY2014
- · Male employee childcare leave rate: Leave-taking rate of 30% or more

Deepening ESG Management and Contributing to the SDGs



- We will contribute to the realization of a safe, secure, strong and livable society by providing a community support infrastructure.
- > We will contribute to solving SDGs issues by achieving sustainable growth together with all stakeholders.

Realize Sustainable Growth and Enhance Corporate Value

Involvement with stakeholders

Customers

We are committed to providing our customers with safe, 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 and ensure stable return of profits for our shareholders and investors through efficient management and effective investment.

Local Communities

Business Partners

Employees

We are determined to conserve the global environment and contribute to sustainable local development in partnership with local communities.

We promise to deal fairly with our suppliers as equal business partners toward mutual growth and development.

We respect individuals and are endeavoring to create a vibrant and motivating workplace that is safe and healthy.

Important ESG issues

Realize a carbon-free society



- Increase the safety of nuclear power and promote its use
- Construction and operation of efficient power transmission and distribution facilities (reduction of power transmission and distribution loss, promotion of local production for local consumption)
- Develop renewable energy power sources
- Develop and introduce carbon-free technology
- Electrification promoted together with society and customers
- Practice environmental management
- Realize a recycling-oriented society

Main SDG contribute d to









Resolution of social issues / Utilization of human resources / Safety and health



- Promote community support infrastructure
- Communication with the community
- Maximize customer experiences (UX)
- Securing labor safety
- Promote health management
- Secure and train highly specialized human resources
- Diversification of human resources
- Firmly establish new workstyles

Main SDG contribute d to

9 INDUSTRY, INNOVATION









Strengthen corporate governance / Business continuity



- Ensure area supply capacity and electric power quality (ancillary services)
- Strengthen large-scale disaster preparedness
- Information and cyber security measures
- Thorough compliance and anti-corruption
- Governance and risk management
- Timely and appropriate disclosure of information

Main SDG contribute d to







Basic Conceptual Approach to Investment and Capital Policy



<Investment>

Necessary investment in electric power safety and stable supply

- We will quickly and steadily implement measures to further increase safety at our facilities, including the Hamaoka Nuclear Power Plant.
- We will also keep steadily investing in equipment needed for stable supply while continuing to streamline.
- When making investments, we will thoroughly ensure efficiency.

Strategic investment in growth fields

• In order to make sustainable growth a certainty into the future, we will conduct appropriate risk management and, on that basis, engage in strategic investment for business growth and development.

Strategic investment amount

[5-year total from fiscal 2019 to fiscal 2023] 400 billion yen or more (Overseas business: About 200 billion yen; renewable energy, new growth, etc.: Approx. 100 billion yen, respectively)

In making investments, we will consider financial stability (maintain the current level of our capital adequacy ratio).

<Capital Policy>

Efficiency indicator (ROE)

- We envision a 7% or higher ROE level when we achieve the fiscal 2021 business goal.
- For the medium- to long-term ROE level, we will aim for a level that exceeds the cost of capital while closely monitoring the necessary shareholders' equity ratio and other such factors.

Shareholder return policy

- Chubu Electric Power will continue to invest in plants and equipment for a safe and stable supply of electricity as well as in growth sectors to maintain sustainable growth and increase our corporate value.
- Providing strong shareholder returns is an important mission for our Group. We will **continue to pursue stable dividends**, as well as consider our profit growth. **Our target consolidated payout ratio is over 30%**.





Initiatives in Each Business Area

Chubu Electric Power Miraiz Co., Inc (Customer Service & Sales)

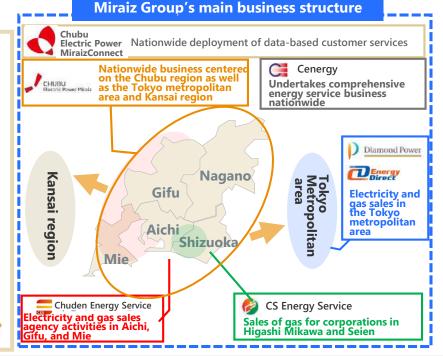




Ootani Shinya President & Director Chubu Electric Power Miraiz Co., Inc.

- Based on **the connections** it has built with customers by delivering electricity and gas, Chubu Electric Power Miraiz will provide new value that will **"enrich the lives of the customers"** and **"solve business issues."**
- Furthermore, Chubu Electric Power Miraiz will move ahead and work together with its customers to realize a carbon-free society by expanding the installation and use of renewable energy and delivering services such as energy saving services by switching to electricity.





Electric Power Miraiz

Provide services that continue to be chosen by customers

To continue being selected by customers amid ongoing major changes in society and a competitive environment, we will provide stable and inexpensive energy while offering customer-first services based on our vision of "delivering, getting close, and connecting"

Main Initiatives

"Enrich the lives of the customers" and "Solve business issues."

For households

- OProvide life services tailored to each life stage
- ► Established Chubu Electric Power Miraiz Connect, a joint/ venture with Mitsubishi Corporation
- Power Miraiz
- Strengthened our lineup that packages electricity and gas
- ➤"for AP Plan "that comes with Amazon Prime when entering into a contract

For businesses

- → Deepening energy solutions
 - ➤ Propose DR lineup utilizing renewable energy (energy usage)
 - ➤ Propose energy-saving solutions and integrated development **solutions** centered on electrification



Toward the realization of a carbon-free society

Provide services related to decarbonization and low carbon in our triad (energy saving, energy creation, energy activation)

Others

- OCompetitive and flexible energy procurement
- Expand sales in the Tokyo metropolitan area, acting mainly through CD Energy Direct*

Expand sales of electric power and gas business

<Sales of electric power>

<Sales of gas and LNG>

119.5 billion kWh 130 billion kWh 1.11 million t 3 million t

Fiscal 2020

Management Vision

Fiscal 2020

Management Vision

(Estimated results)

(Second half of 2020s) (Estimated results) (Second half of 2020s)

Toward Realizing Our Customer First Philosophy

Business quality improvement measures

- Establishment of Customer First Promotion Office We set up **the Customer First Promotion Office** as an organization under the direct control of the president with the aim of putting into practice and spreading our customer first philosophy.
- OBusiness improvements that reflect customer opinions We value customer feedback from call centers and websites and regularly convene VOC (voice of customer) debriefing meetings for the purpose of improving our business operations.

Holding of KatEne (Household Energy) Appreciation Festival

On the occasion of the 70th anniversary of Chubu Electric Power and the 1st anniversary of Millaiz, we will hold the KatEne (Household Energy) Appreciation Festival and present luxurious prizes to 5,000 customers that embody our everyday feelings of gratitude. (3/1 2021 ~ /5/20 2021)



Triad Initiatives to Realize a Carbon-free Society

Providing "energy saving", "energy creation" and "energy activation"



We will propose carbon-free and low carbon-related services as **a triad of "energy saving," "energy creation," and "energy Activation"** as we contribute to the realization of a carbon-free society together with customers.

* For details, refer to Zero Emissions Challenge 2050.

Customers receive an energy-saving assistance e-mail when they exceed the established target usage volume.

(i.e.) Customers are contacted when usage reaches 90% of the same month of the previous year!!

Help customers realize decarbonization and low carbonization by converting energy sources (encourage shift to electricity and a shift away from oil and coal toward gas and LNG and utilize new energy such as hydrogen)

Energy saving

Realize decarbonization

Solution activity: Won the Energy Conservation Grand Prize FY2020 Double Awards

Case 1 [Toyota Motor Corporation]
Development and operation of
purification and regeneration system
for cleansing liquids

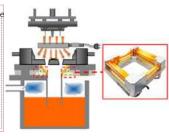
Production plant buildings Waste liquid storage buildings

Fine-bubble high-speed flotation separator (gil removal)

Recycling of purified and regenerated cleansing liquids
Realizes zero energy consumption in the waste liquids treatment process

Case 2 [Suzuki]

Energy savings during lowpressure casting processes



Realized energy savings and reduced heating times by introducing infrared heaters

Further increase facilities for renewable energy power sources by encouraging customers to use renewable energy.

Energy creation

Energy activation

Utilize customer facilities (DR resources) and provide services for local production for local consumption of renewable energy.



○Established a company that provides services centered on solar power generation together with Looop (10/2020)

➤ Installed solar power generation facilities on this customer's buildings and deployed a service enabling the customer to use this generated electricity.

ZERO ROSFS



Oservices for local production for local consumption of renewable energy such as Shinshu Green Electricity

This selection of electricity rates for locally produced electricity derived from electricity produced at hydropower stations operated by the Nagano Prefecture Business supports the expansion of renewable energy in Nagano Prefecture.

信州 Green でんき

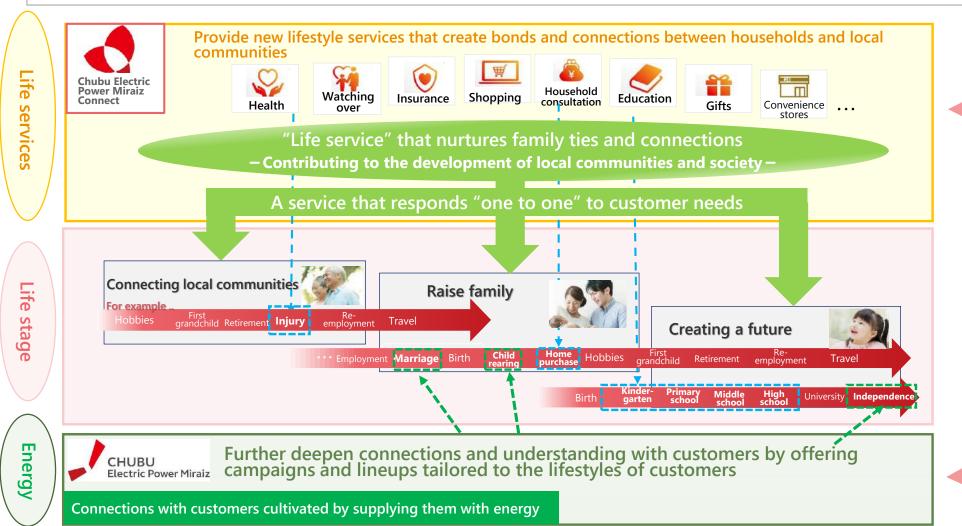
TOYOTA GREEN CHARGE



Provide support service for the introduction of EVs to corporate customers in collaboration with Toyota Motor Corporation.

Provide life services that create "bonds" and "connections"

Chubu Electric Power Miraiz Connect (scheduled to be established in April 2021) will utilize data to provide services that raise convenience and productivity and create new customer experiences.



Chubu Electric Power Grid Co., Inc. (Power Transmission/Distribution)





Ichikawa Yaoji President & Director Chubu Electric Power Grid Co., Inc.

- The importance of providing stable supplies of energy will increase due to the frequent occurrence and intensification of natural disasters. In parallel, a variety of changes have gained momentum depending on the characteristics of each region. These include declining birthrates and an aging population and depopulation; changes in the social environment and lifestyles due to the spread of COVID-19; and the increased complexity of flows of electricity due to the mass introduction of renewable energy and the spread of electric vehicles (EVs).
- As **an entity that supports the stable supply of energy**, besides disseminating information to customers in cooperation with local governments, we also work to **strengthen resilience** in collaboration with other general power transmission and distribution business operators. Moreover, all employees will work in tandem in continually taking on challenges to ensure we become **an entity that supports the Chubu area community** by responding to changes that differ by region and by responding to the needs of customers and local communities.

Vision of Chubu Electric Power Grid

-As an entity that supports stable supplies-

Depending on the regions

Community issues and needs

Revitalizing the community

Environmental measures (decarbonization)

Disaster prevention measures

Digitization

Measures tailored to the various characteristics of each community

Rational facilities formation and operation in accordance with the characteristics and future vision of each community

Strengthen resilience in collaboration with local governments and customers

Business efficiency enhancement and sophistication using drones, Al and other tools



Support the development of local communities and society to earn their "trust" and respond to their "expectations."



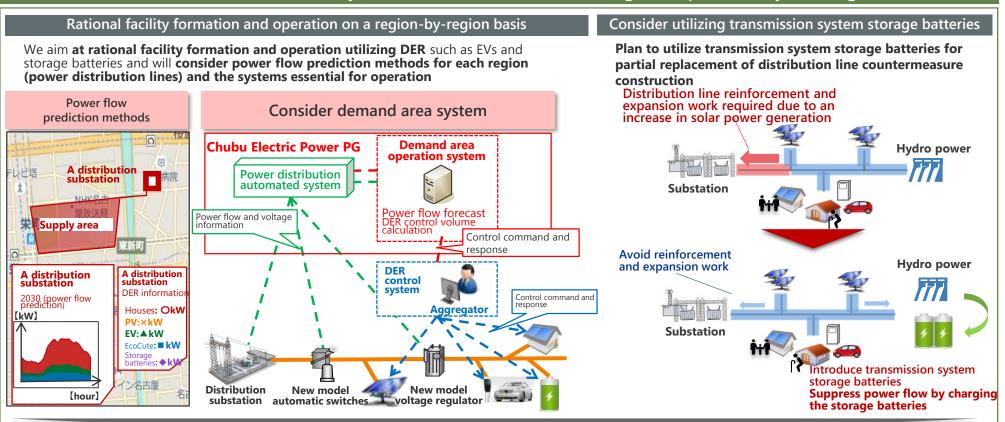
Initiatives for Maximizing the Use of Renewable Energy Power



Sources Build and Operate Facilities That Utilize Distributed Energy Resources (Demand Area Distribution System)

Utilizing distributed energy resources (DER) including renewable energy power sources, storage batteries, EVs and others as supply and demand regulation, we aim for rational formation and operation of facilities on a region-by-region basis. While streamlining facilities equipment and reducing response costs, we will contribute to the realization of a carbon-free society by improving operating rates such as avoiding restraints on renewable energy power sources.

Demand area distribution system> Efficient facilities building and operation by utilizing DER



Realized more stable supplies by achieving a balance between reducing investments for power distribution facilities and accepting even more renewable energy

Initiatives for Maximizing the Use of Renewable Energy Power

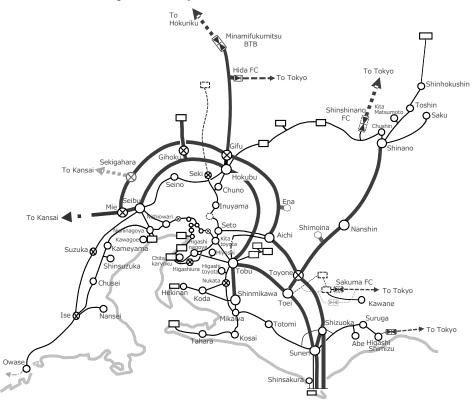
Sources Well-Balanced Facilities Formation (Bulk Transmission System)



The flow of electricity in bulk transmission systems is expected to change significantly owing to the introduction of large-scale power sources in areas suited to renewable energy and to the ceasing and discontinuation of low-efficiency thermal power. For bulk transmission systems that require a long time to construct equipment, we will reduce capital investment and steadily accept renewable energy with an eye toward the future by promoting well-balanced facilities formation.

< Bulk transmission system > Well-balanced facilities formation

Electricity flows will change due to the development of largescale renewable energy power sources and the discontinuation of low-efficiency thermal power



Upon forecasting the future flow of electricity, we will **implement well-balanced** facilities formation categorized into three directions: reinforcement and expansion, reduction and maintenance. We will adopt non-farm type connections and contribute to the expansion of renewable energy connection capacity.

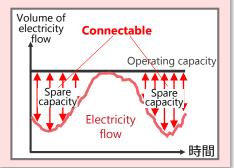
Facilities formation that classifies directions

In anticipation of changes in electricity flow in the future, we classified each system into the following **three categories** and will prepare future capital investment plans accordingly.

- •Systems that need reinforcement and expansion
- Systems to **be reduced** in scale
- Systems to **be maintained** in scale

Adopting non-farm transmission system type connection

Connection method that allows use of power transmission lines **only when there is** spare capacity



Contribute to the realization of a carbon-free society by expanding the introduction of renewable energy.

Balance the introduction of renewable energy and the reduction of capital

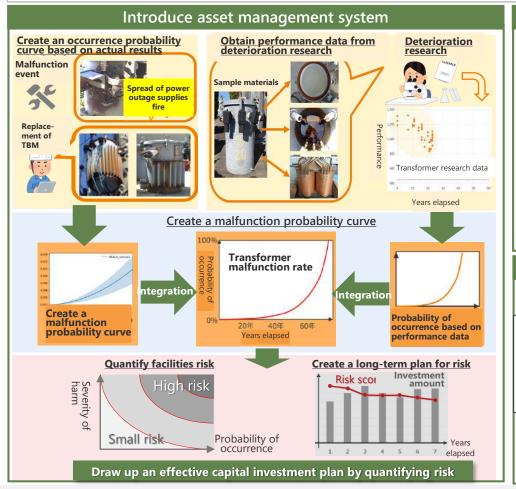
Balance the introduction of renewable energy and the reduction of capita investments.

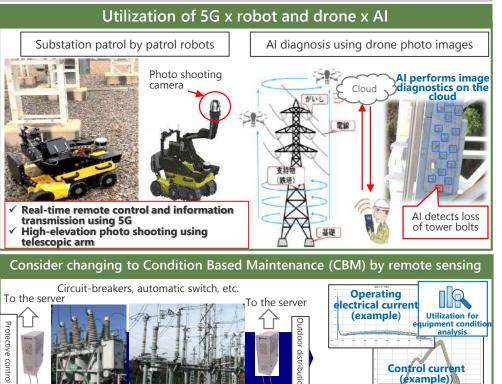
Data Utilization and DX

Sophistication of Facilities Maintenance Work



- We introduced **an asset management system** that visualizes facilities risk and upon quantifying risks we formulate effective capital investment plans over the long term and strive to **enhance the sophistication of maintenance operations**.
- We actively introduce digital technologies such as robots, AI, and IoT to promote sophistication and greater efficiency. At the same time, we are considering transitioning to CBM*1 to replace the conventional TBM*1 by constantly ascertaining information on facilities using sensors.







Consider changing to Condition Based Maintenance (CBM) through data analysis

Enhance sophistication and efficiency of patrol inspections

(example))

of equipment

Renewable Energy Company





Suzuki Hideya President Renewable Energy Company

- Toward the realization of a carbon-free society, we will work in unison based on its dual imperatives of accelerated development of new power sources and the effective use of existing power sources.
- Toward becoming a "leading company in the renewable energy business," we will work to achieve both "expansion of renewable energy" and "business growth" by not only developing the Chubu Electric Power Group itself, but also by commercializing a competitive development plan with all partners in Japan and overseas according to the need.

Renewable Energy Company's Mission and Vision **Business growth** Vision A leading company in Mission the renewable energy business Contribute to improving the Realize stable and Work in unison as a group in non-fossil fuel ratio and inexpensive power ☐ Work in unison as a Group in developing making renewable energy developing 2,000 MW or 2,000 MW or more by around 2030 sources the mainstay of generation more by around 2030 ☐ Contribute to improving the non-fossil fuel energy sources ratio and make renewable energy sources the mainstay of energy sources ☐ Realize stable and inexpensive power generation **Initiatives** ■ Steady development and promotion of renewable energy projects **Steady development** Steady development and ☐ Take all measures such as making strategic Maximize the use of and promotion of promotion of renewable renewable energy existing facilities ■ Maximize the use of existing facilities energy projects projects Realization of a carbon-free society

Power Development toward 2,000 MW

Yonago biomass

(current status)



- With regard to renewable energy, the whole Group is working together with the goal of developing 2,000 MW or more by around 2030.
- At present, the output based on equity ownership of the entire Group is approximately 560MW, which is about 28% progress*1 versus the target.
- We will actively pursue the development and expansion of ownership of solar power in the short term, hydro power, biomass, on-land wind power in the medium term and offshore wind power and geothermal power in the long term, not only in supply areas but also throughout the whole country. In this way, we will aim to **improve energy self-sufficiency** in Japan and achieve **a carbon-free society**.

*1 Progress from the end of FY 2017 to March 31, 2021 **Godo Biomass Facility capacity** Main recent development sites 7,500 kW, expected to start operation in Commence operation Development of 2.000 MW or more to **Uchigatani hydro power** 720 kW, expected to start operation Under approximately double the facility capacity Miyako Kuzakai Solar Park construction 18,000 kW, operation started in May 2019 in 2025 Development decided Seinaiji hydro power 3.120 MW*2 Akita Port / Noshiro Port offshore wind power O Other 5,600 kW, expected to start Solar power 515 Approx. 139,000 kW, expected to start operation in 2022 operation in 2022 2.560 MW*2 Seinaiji hydro power 5,600 kW, expected to start operation in 2022 Wind power 192 **Biomass 257** Kamisu biomass 50,000 kW, expected to start operation in 2023 Hydro power 2,159 **Tsuruga Green Power** 37,000kW, Chubu Electric Power acquired stake in Feb.2021 (excluding pumped lchishiro hydro power storage) 160kW, expected to start operation Around 2030 End of FY2017 End of FY2020 *2 Facility capacity including group companies Yonago biomass Abekawa hydro power 54,500 kW, expected to start operation in 2021 7,500kW, expected to start operation in 2024 Omaezaki Port biomass 74,950 kW, expected to start operation in 2023 Yokkaichi biomass Gamagoori biomass 49,000 kW, operation started in May 2020 50,000 kW, expected to start operation in 2023 [Preparing for construction] **Yatsushiro biomass** Atsumi on-land wind power 75.000kW, expected to start operation in 2024 7.400 kW, expected to start operation in 2021

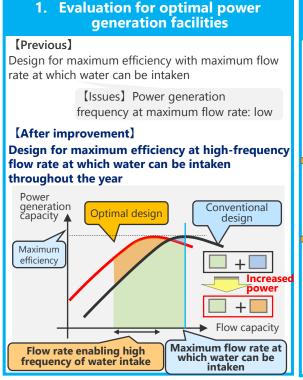
Seinaiji hydro power

(current status)

Maximize the Value of Management Resources

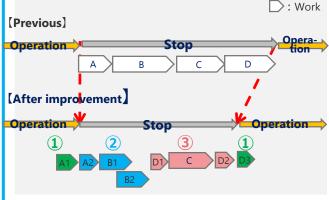


We own 191 hydroelectric power plants (excluding pumping water) with a capacity of 2,140 MW in the Chubu region. We strives to increase power generation capacity by reviewing the optimum power generating facilities in accordance with river flow conditions at the time of facility renovation, reducing the time period for suspending power generation during inspection and construction work, and raising the operating water level of the dam.



2. Reduce the power generation suspension period

For inspections and work accompanying a generator shutdown, incorporate the Toyota Production System (TPS) and strive to reduce the power generation shutdown period.



- 1. Perform work that can be done even during operation
- 2. Subdivide processes and simultaneously undertake multiple operations
- 3. Subdivide work and optimize the process to reduce work loss

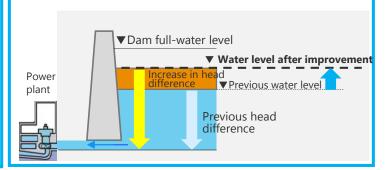
3. Raise dam operating water level

[Previous]

In preparation for an increase in inflow due to rainfall, dams operated with a low water level to enable a quick response even if the dam water level rises sharply.

[After improvement]

Prepared for an increase in inflow using sophisticated rainfall forecasts and improved output by operating the dam at a high water level.



Increase in generated power (compared with FY2012)

FY2019 (actual results)

Approx, 180 million kWh increase (equivalent to approximately 58,000 households)

During the next 5 years FY2024
Approximately 240 million kWh increase
(Equivalent to about 77,000 households)



JERA

A Stable Supply of Clean Energy That Is Internationally Competitive



- > JERA is a joint venture between we and TEPCO Fuel & Power, Incorporated. With a sequential value chain from upstream fuel and procurement through to wholesale electricity and gas sales, JERA is an energy company with a power generation capacity that accounts for half of the thermal power generation capacity in Japan and has one of the largest physical fuel transaction volumes in the world.
- In keeping with our Vision of becoming a global leader in LNG and renewables, sparking the transition to a clean energy economy, we will contribute to providing a stable supply of internationally competitive clean energy and increase the corporate value of the Chubu Electric Power Group based on the dual pillars of utilizing high-efficiency thermal power and expanding the renewable energy business.



Large-scale renewable energy business expansion

Renewable energy output based on equity ownership (FY2025 target:)

Approx. 5 GW



Participation in Taiwan offshore wind power station business

✓ Participating in one of the world's largestscale projects as the largest investor

Name of business	Output (kW)	JERA's interests
Formosa 1	128,000	32.5%
Formosa 2	376,000	49.0%
Formosa 3	2.004 Million One of the world's largest	43.75%

Established company for the development of floating offshore wind power station business

Basic agreement with IDEOL SA (France) for the establishment of a company to undertake the floating offshore wind power station business (6/2020)

Take on the challenge of realizing more efficient thermal power generation and zero emissions



Power Station

Utilize high efficiency thermal power

✓ Commenced commercial operation of Hitachinaka Joint Thermal Power Station Unit 1 that utilizes the ultra-supercritical pressure steam power generation method (1/2021).

Sophistication of power plant operation

√Formulated the Digital Power Plant vision

that pursues advanced O&M* using digital technologies such as Al and IoT.

Building an ammonia and hydrogen fuel supply chain

✓Concluded a memorandum of understanding for collaboration in the field of decarbonization with Petroliam Nasional Berhad, Malaysia's state-owned oil and natural gas company. (2/2021)

Ammonia mixed-combustion in thermal power generation facilities

✓ Participation in NEDO consigned work (3/2020)

✓ Carry out technical examinations and economic feasibility examinations needed for verification tests for using ammonia directly as fuel at existing thermal power plants.

Synergies through integration 100 billion yen or more annually (within 5 years following integration)

Profit level: Net income of about 200 billion yen in FY2025

Provide a stable supply of clean energy that is internationally competitive and enhance the corporate value of the Chubu Electric Power Group.

Overseas Businesses

Active Development of Business



- We will develop our business overseas, targeting four businesses consisting of power transmission, distribution, renewable energy power generation and retail electricity (new service), and contribute to the acquisition of new revenue sources and the deepening of ESG management.
- We will position Eneco as a platform in the European electric power business to expand growth areas such as renewable energy, retail and new services.

Overseas businesses

- <u>Technology and know-how</u> in cutting-edge fields
- · Business that supports local communities
- · Promotion of carbon-free business



German Submarine Power Transmission Business for offshore wind power plants



Domestic businesses

- <u>Technological capabilities</u> cultivated in the domestic electric power business
- <u>Customer base</u> and <u>relationships of trust</u> with local stakeholders
- Wide-ranging business deployment in community support infrastructure.

Eneco

Mission

"Everyone's sustainable energy"

Outline

- ► Leading Dutch **green energy company** representative of Europe
- ➤ Supply green power to approx. 6 million customers
- ➤ Acquired all shares of Eneco through joint investment with Mitsubishi Corporation (the Company's equity ratio is 20%) (March 2020)
- ➤ Actively promote business, such as concluding **large-scale supply and demand contracts for electric power** derived from renewable energy power sources.

Portfolio

Renewable energy power capacity

➤ Approx. **4,400** MW (Eneco equity capacity + contracted capacity with other companies)

Electricity/gas trading, electricity/gas retail

- ➤ Electric power handling capacity of approx. **30 billion** kWh
- ➤ Gas handling capacity of approx. **50 billion** kWh *

➤ Approx. **6 million** customers



Using this as a platform for our European strategy, we will mutually expand our business and raise profitability while creating synergies with our domestic business.

* Electric power energy conversion

