

---- Toho Gas Group FY2023 Business Plan

Enrich our future together.

March 31, 2023

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I Introduction

The outlook of the business environment surrounding the Toho Gas Group remains uncertain due to the prolonged semiconductor shortage and soaring raw material prices, despite the gradual easing of movement restrictions caused by the COVID-19 pandemic and recovery of economic activity. The environment surrounding energy is also changing rapidly, with energy supply and demand tightening and price volatility increasing due to the Russia-Ukraine issue.

Under such circumstances, in FY2022, which is the first year of our new medium term management plan and the 100th anniversary of our founding, we made efforts to promote carbon neutrality as well as working to materialize and implement measures including enhancing services that contribute to everyday life and businesses, and fulfilling our roles in coexisting with local communities, while continuing to ensure safe, secure, and stable supply of energy.

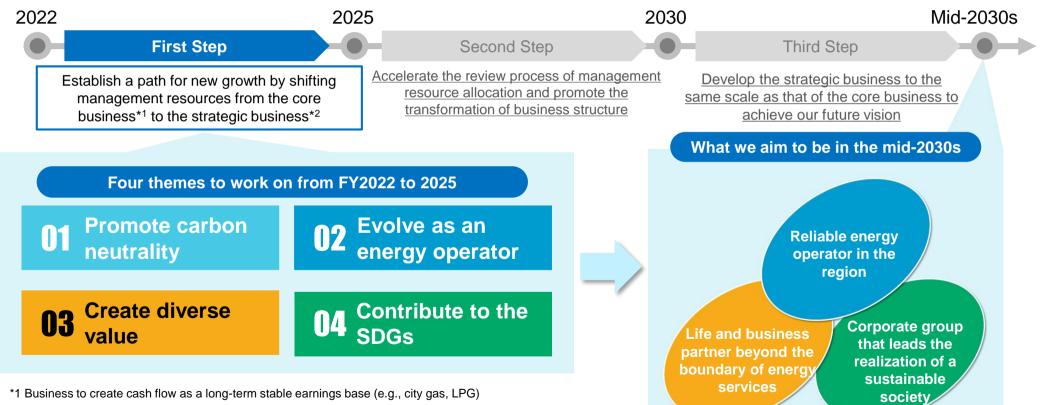
In FY2023, the second year of our medium term management plan, we will make sure to deliver results toward achieving the medium term management plan by further accelerating our initiatives in each theme, while at the same time making flexible efforts to swiftly address environmental changes and promote a business sructure reform by shifting in our managerial resources from core businesses to strategic businesses. Through these efforts, we will engage in continuous growth of the Group into the future and contribute to the development of local communities and the realization of a sustainable society.

Representative Director, President

Nobuvuki Masuda

[Reference] Positioning Medium-Term Management Plan (Reposted)

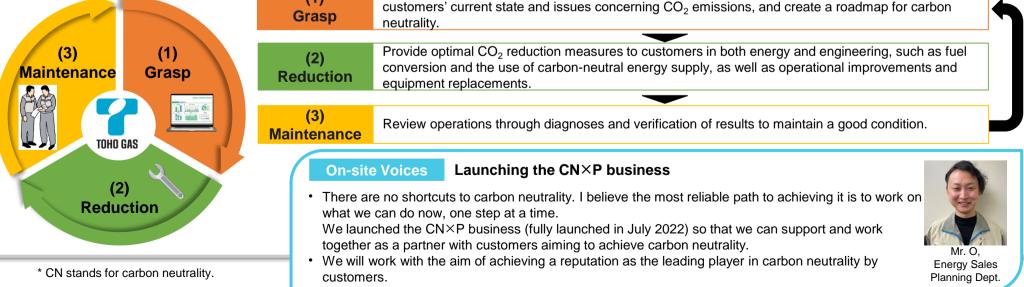
The Medium-term Management Plan is positioned as the first step toward the realization of the vision set forth in the Group Vision, and by tackling the four themes, we will solidify the path to new growth.





In addition to promoting reductions of carbon and decarbonization at customer locations, we will work to develop technologies with an eye to future decarbonization of gas itself. We will also work to expand the use of hydrogen, reduce/eliminate carbon in electricity, and promote the transition to carbon neutrality. We will expand our CN×P business, which supports customers in achieving carbon neutrality based on the key concept of "Do everything we can to achieve carbon neutrality."

CN×P business* that supports customers to achieve carbon neutrality
The CN×P business is a service in which the Group, as an energy <u>Professional</u>, provides support with a one-stop <u>Package</u> from consulting to engineering, and works together with customers as a <u>Partner</u> in achieving carbon neutrality.
Taking advantage of our strength in making proposals for integrated energy and engineering solutions, we will contribute to the realization of carbon neutrality by repeating the cycle: (1) Grasp, (2) Reduction and (3) Maintenance according to customers' situations and technological innovations.



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Promote carbon neutrality

(A) Reductions of carbon and decarbonization at customer locations (2/2)

(1) Grasp CO₂ emissions

- Visualize the overall picture of CO₂ emissions (visualize the amounts and sources of emissions).
- Choose appropriate CO₂ reduction measures and prioritize them by cost effectiveness.
- Set CO₂ reduction targets and formulate a roadmap for the medium to long term.

Visualize CO_2 emissions for each product

- Identify CO₂ emissions for each product according to the situation of the production site.
- Enables the identification and implementation of more effective CO₂ reduction measures.

Support the formulation of an emissions reduction roadmap

 Present visual CO₂ reduction measures in order of cost effectiveness as tailored to the customer, and create our original CN curve as a medium- to long-term benchmark.

Vertical scale: CO₂ reduction cost (Negative field indicates cost reduction.)



Visualize CO_2 reduction measures in order of cost effectiveness, as tailored to the customer.

Emissions reduction roadmap (example of our original CN curve)

(2) Reduce CO₂ emissions

- Promote reductions of carbon and decarbonization by switching fuel from coal and oil to natural gas.
- Improve operations, introduce energy-saving measures, and replace them with highefficiency equipment.
- Utilize carbon-neutral energy.
 - Carbon-neutral LNG.
 - Supply renewable electricity (on-site solar power generation services, etc.).
 - Utilize hydrogen (technical support for hydrogen combustion or mixed combustion, future hydrogen supply).

Low carbonization through fuel conversion of heat demand (Example of Daio Paper Corporation)

 Fuel conversion from heavy fuel oil from the coal burning kiln at Kani Works led to CO₂ reduction worth approx. 11,000 tons per year (equivalent to 30% of lime combustion).



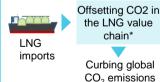
combustion kiln Combustion part

(3) Maintain a good condition

- On-site diagnosis and monitoring of CO₂ emissions, and maintenance of equipment introduced.
- Verify results and consider new CO₂ reduction measures.

Carbon-neutral LNG

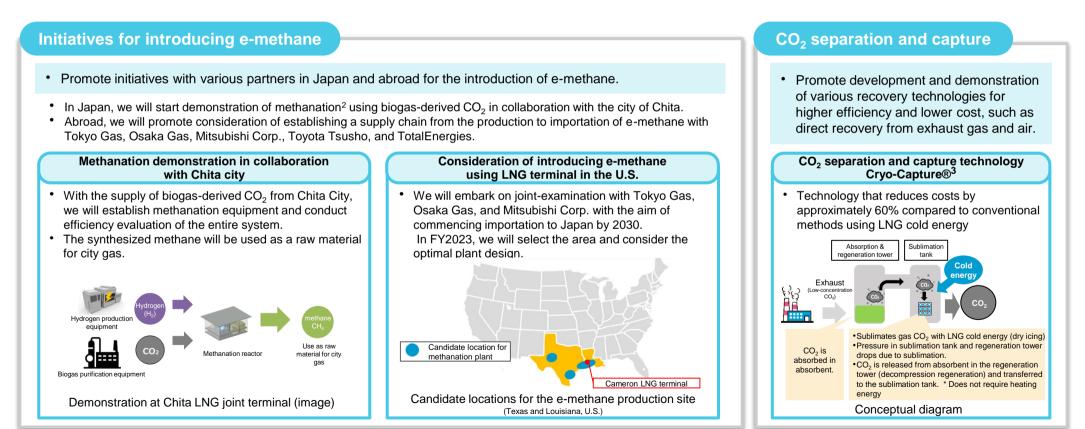
- After the start of supply in August 2021, gradually expand transaction volume in accordance with customer needs.
- Contribute to customer's CO₂ reduction through continued flexible procurement and research and examination of projects that lead to credit generation, etc.



Preservation of forests, etc.

* All stages from natural gas extraction to combustion at the customer's site

We will promote initiatives in Japan and abroad to introduce e-methane,¹ as well as making steady efforts to develop and demonstrate CO₂ separation and capture technologies.



1 E-methane is a synthetic methane produced from non-fossil energy such as green hydrogen.

2 Methanation is a technology for generating methane using hydrogen and CO₂. It is a promising means of decarbonization that allows effective use of existing infrastructure and leads to reduced social burden and increased resiliency. 3 The name Cryo-Capture was coined from cryogenics, which means cold energy, and capture, as in capturing CO₂ from exhaust. Nagoya University and Toho Gas have obtained basic patents and trademark registration.

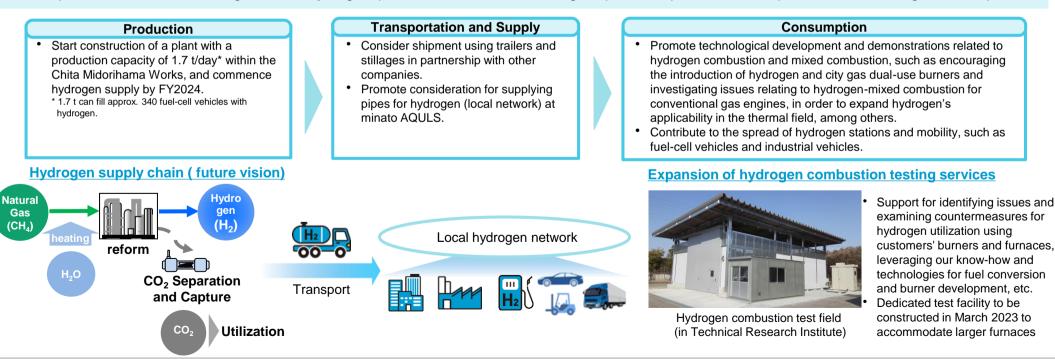
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(C) Establish a foundation to expand the use of hydrogen

We will work on the construction of production facilities, the study of transportation and supply systems and the development of technologies related to consumption for the establishment of a hydrogen supply chain.

Establishment of a domestic hydrogen supply chain

• In response to the need of the region to use hydrogen, promote the effort at each stage in partnership with other companies that have insights and expertise.



Promote carbon neutrality

(D) Low-carbonize/decarbonize electricity

We will enhance the development and procurement of renewable power sources while diversifying power sources, and will enhance our power services that utilize these sources.

Renewable power sources

 Steadily broaden the development and procurement of renewable power sources while diversifying power sources to achieve the target for the volume of renewable energy sources handled.

Renewable power source handling volume target*



Renewable power source handling volume includes development & ownership of power sources (including FIT power sources) and procurement in Japan and abroad.

Solar power generation



Offshore wind power generation

Promote examination of the power generation business off the coast of Aomori in the Sea of Japan (south side) together with Vena Energy Holdings Ltd. and Shikoku Electric Power Co., Ltd.

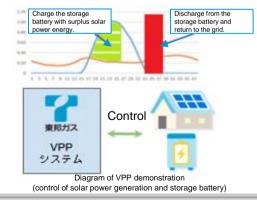
Power services

- Use renewable power sources to provide service menus that contribute to low-carbon and decarbonized electricity.
- Green eco plan for home use (a rate plan that combines renewable power sources and non-fossil certificates)
- On-site solar power generation services for corporations (without initial investment), etc.
- · Enhance service menus that promote efficient use of electricity.
- Demand response service that encourages energy saving
- Being verified for early commercialization of Virtual Power Plants (VPP)

Residential demand response service "Energy saving challenge"



Demonstration of residential VPP

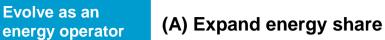


* A program under METI that studies, rates, and publishes the degree of information provision and services related to energy saving for general consumers by electric power and gas companies. This rating was for the "FY2022 City gas and electricity" category.

Evolve as an energy operator 02



We will continue to take all possible measures to ensure safe, secure, and stable supply, and strive to increase our energy market share by utilizing diverse kinds of energy. We will also work to further extend new energy-related business at home and overseas.



We will aim to acquire 3 million energy customers at an early stage, as stated in our medium-term management plan, by addressing diverse customer needs and increasing and enhancing customer contact points.

Responding to diverse customer needs

- Roll out services and products that meet diverse needs for energy and then some based on the theme, "Toho Gas provides this and that for everyday life."
- Contribute to the spread of net-zero energy houses (ZEHs) by proposing ENE-FARM and other advanced equipment.



- · Opened the e-commerce site "Kurashi Soko" within ClubTOHOGAS. Going forward, we will offer products that enrich people's lives.
- Launched "On-site Water Problem Service," a 24/7 service that handles sudden water leaks and clogged pipes.

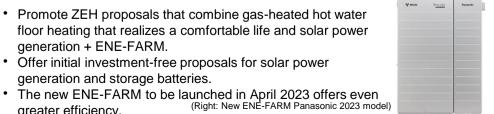
Contributing to the spread of ZEHs

generation and storage batteries.

greater efficiency.

 Promote ZEH proposals that combine gas-heated hot water floor heating that realizes a comfortable life and solar power deneration + ENE-FARM.

Offer initial investment-free proposals for solar power



Expansion of customer base

- Increase and enhance customer contact points by delivering energy and a variety of products and services in an integrated and effective manner.
- Increase the number of gas, electricity, and LPG customers overall.

Strengthening sales force in the residential field

 Promote initiatives such as enhancing the product lineup, introducing a membership program that offers perks and preferential treatment, and strengthening sales channels so as to further support customers as a partner in everyday life in general.

Strengthening sales force in the commercial field

· Further strengthen proposals integrating energy and engineering, thereby contributing to solving business issues such as reducing CO_2 in customers' supply chains.

Wide-area deployment of LPG and promotion of alliances

Expand from our core business area of the three Tokai prefectures and strengthen demand development in the Shizuoka and Nagano areas; increase the number of customers in residential and commercial areas through alliances with other companies.

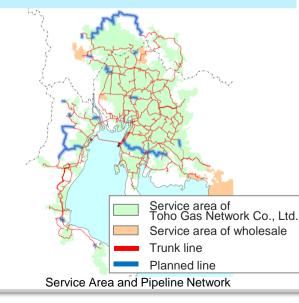
D2 Evolve as an energy operator

(B) Ensuring safe, secure and stable supply

We will take security and disaster-prevention measures to pursue safe, secure and stable energy supply, and steadily develop infrastructure for the expansion of our city gas supply area.

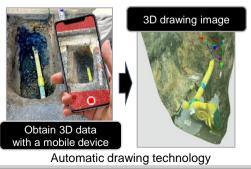
Development of infrastructure for the spread and expansion of city gas

- Expand supply areas through demand development mainly in the Gifu and Mie areas.
- Promote the development of infrastructure, contributing to the improvement of transportation capacity and supply stability.



Safe, secure and stable city gas supply

- Implement disaster-prevention measures against earthquakes, tsunamis and other natural disasters.
- Measures against large earthquakes and tsunamis are in place at key production and supply facilities of city gas
- Promote replacements and other measures to further improve the quake-proof rate of low-pressure main-branch pipe (currently 97%)
- Promote anti-aging measures for equipment.
- · Replace aged electric equipment in city gas plants
- Develop and introduce regenerative repair methods for internal supply pipes that do not require road excavation
- Adopt advanced technologies.
- Smart meters to be introduced starting from FY2023
- Upgrade maintenance through 3D pipe drawings of gas pipe burial information



On-site Voices

Challenge of Passing on Skills that Support Gas Supply

- We are working to pass on the know-how and skills cultivated over 100 years of business operations from veterans to younger employees, while also utilizing advanced technologies such as VR.
- We will continue to support stable gas supply with our mission as a professional gas supplier.



Mr. M, Toho Gas Network Co., Ltd. We will build an LNG procurement portfolio that is resilient to environmental changes, secure diverse power sources, and procure & deliver LPG using the latest technologies, etc. for realizing low-cost and stable procurement.

Stable LNG procurement and response to changing environments

- Build a procurement portfolio that is highly adaptive to environmental changes.
- Secure sufficient procurement mainly through long-term contracts amid a tight LNG market.
- Continue consideration of building a procurement portfolio that is resilient to environmental changes while taking into account the balance between price competitiveness and supply stability.
- Promote flexible response to changing environments.
- Prepare and implement flexible and agile response procedures to rapid fluctuations in supply and demand.
- Also consider participation of investments in new LNG vessels for strengthening the LNG value chain.



Ichthys offshore production and processing facility (CPF*) *Central Processing Facility



LNG Canada Project (Under construction)

Stable power source procurement and improvement in the in-house power source ratio

- Secure stable power sources by combining in-house power sources and various means of procurement.
- Install regulated power supply (a storage battery for the grid) that contributes to stability in supply and demand.
- Efforts contributing to improvement of the in-house power source ratio, such as considering large-scale power sources.



Tsu Energy Storage Plant (Under construction)

LPG procurement & delivery

- Promote stable and low cost LPG procurement, and streamline delivery management.
- In terms of procurement, continue low-cost and stable LPG procurement by using Meiko LPG Terminal, one of Japan's largest secondary terminals, and inland vessels.
- In terms of delivery, streamline delivery by combining AI delivery route optimization technology* and remote metering technology.

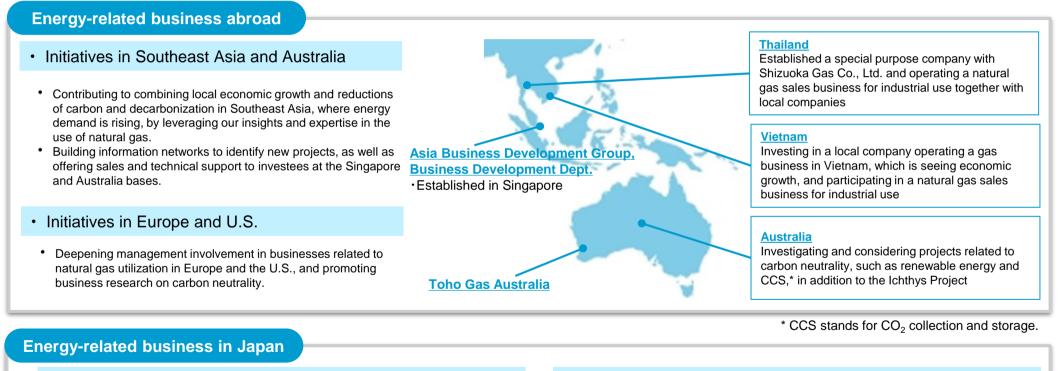


Optimal delivery routes are displayed on the delivery person's smartphone.



(D) Expansion of domestic and overseas energy-related business

We will work to cultivate the energy business in Southeast Asia and Australia, as well as strengthening the business across the world at home and abroad.



- Mizushima Gas Corporation provides services that support the security and comfort of people's lives, mainly in the Mizushima district of Kurashiki City, and promotes reductions of carbon and decarbonization of the community.
- Kanazawa Energy Co., Ltd., in which we invest, has commenced energy sales using in-house hydropower generation, etc. In both the gas and power generation businesses, it is promoting smart field work using digital technologies such as wearable devices.

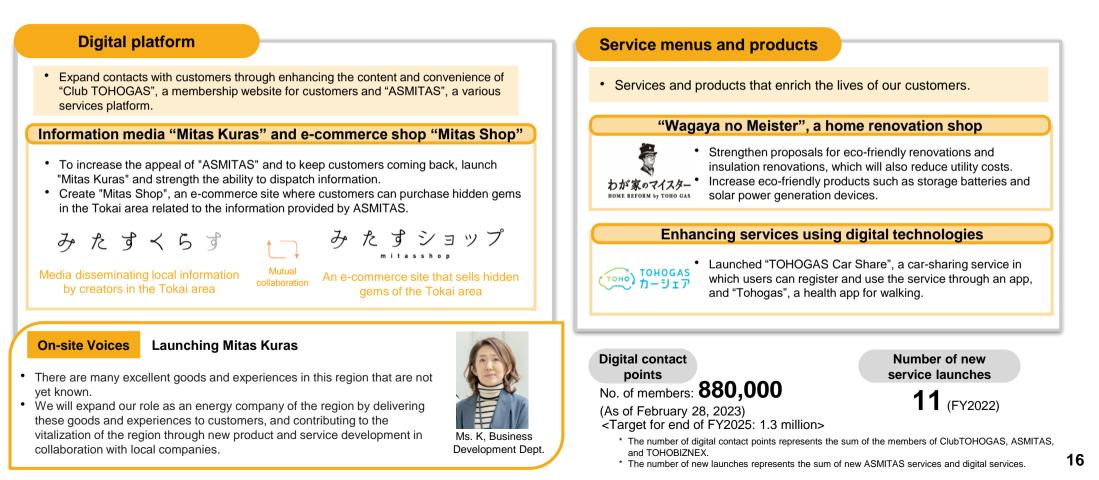


We will expand our services to meet diversifying customer needs and solve their problems, and also broaden our business domains by utilizing our assets and expertise.



(A) Expansion of services that enrich people's lives

We will enhance our digital platform for residential customers in order to expand customer contact points for increasing service menus and products, especially in fields such as "Living," "Food," and "Health and Caregiving."





We will contribute to solving customers' business challenges by enhancing service menus and products through membership site for commercial customers and strengthening energy-related services.

Total membership business support site

- Expand services of "TOHOBIZNEX", a total membership business support site, to improve customer convenience.
- Launched a gas & electricity consumption & rate online inquiry service.





Energy-related services

- Enhance energy-related services by increasing product lineups and expanding service areas.
- In design and construction, increase order intake by securing a system that can propose the optimal equipment, including electric products, for each customer, in addition to promoting the introduction of co-generation and gas-powered air conditioning.
- In operation management and maintenance, expand range of services covered.

Service menus and products

- Expand service menus and products that help solve business challenges for customers in various industries.
- A subsidy support service that assists in introducing energy-saving equipment
- "A BCP (business continuity plan) formulation support service" for hospitals
- "A barrier-free vehicle shuttle service" for day care facilities (day care business operators)
- Proposals for restaurants to join "Franomista"

Franomista, a subscription service offering one free drink



- --Awarded a Special Prize in the 2022 Japan Subscription Business Award--
- Supporting restaurants affected by the pandemic to attract customers.
- In collaboration with energy companies in the Kanto and Hokuriku areas, Franomista was launched in other areas in FY2022.
- Information systems-related services by Toho Gas Information System Co., Ltd.
 - -Contracted system development services for customers
 - Services using data centers, and more

We will expand our new business domain including co-creation with other businesses.

Business development in new areas

• Determine the business feasibility of land-based salmon farming in FY2023 in view of demonstration results.

Land-based farming of "Chita Cool Salmon"

- In June 2022, test shipped (Approx. 2 tons) trout salmon reared by land-based farming using LNG cold energy and sold them in supermarkets, etc. in Aichi.
- Scale expanded and Phase2 test for commercialization carried out (Aiming to ship more than 10 tons of salmon).



High-efficiency agriculture

 Conducting experimental cultivation at our technology research center in collaboration with TOWING, a start-up engaged in technology development for "high performance soil," an artificial soil.



(Above: High performance soil; Right: Cultivation of strawberries)



Utilization of our real estate and technologies

• Promote the use of our real estate and offer technologies leveraging our insights and expertise for external sale.

Utilization of our real estate

 Opened a bouldering class within "Howa Sports & Culture" operated by Toho Real Estate Co., Ltd.



External sale of gas production technology

 Develop compact power generation facilities leveraging unused energy (gas pressure difference) and make preparations for external sale.



Turbine Generator

External sale of gas supply technology

- Offer maintenance technologies such as proprietary regenerative repair methods and remote monitoring systems to gas providers.
- Apply gas pipe construction and maintenance technologies to water pipes.



As a community-based company, we will continue to contribute to the SDGs together with our stakeholders.



We will deepen our collaboration with local governments and other organizations to strengthen efforts for coexistence with local communities to solve social issues and improve resilience.

Partnership with local governments

• Working with local governments to solve local issues, such as achieving carbon neutrality, and contributing to the development of attractive communities.

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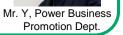
Signing of a comprehensive partnership agreement with Okazaki City (November 2022)

- Six comprehensive partnership agreements were entered into with local governments in FY2022. An organization dedicated to coexistence with local communities was established in April 2023 to further promote initiatives leading to the solution of local social issues.
- Three local PPSs were established in FY2022, bringing the total to five, including Matsusaka Electric Power Co., Inc. and Okazaki Sakura Electric Power Co., Inc.
- Concluded a basic agreement on technical cooperation with Nagoya City Waterworks and Sewerage Bureau. Promoting mutual cooperation in the maintenance and management of gas and water facilities and human resource development.

On-site Voices

Contributing to local communities through local PPS

- We are promoting initiatives related to local PPS out of a desire to contribute to the vitalization of local communities through local production for local consumption of energy.
- We will continue to contribute to solving various social issues of the region through the business activities of local PPSs.



Development of "minato AQULS"

- Certificated as a "Carbon Neutral Leading Area" by the Ministry of the Environment in April 2022.
- A condominium certified as ZEH-M Oriented* completed in March 2023; Phase I development completed.
- In Phase II development, the realization of decarbonization in minato Aquls will be considered with Nagoya City and other partners.



Park Homes LaLa Nagoya minato AQULS Garden Square (Mitsui Fudosan Residential)

Concept of minato AQULS community development

- Clean and smart community development that achieves carbon neutrality
- Utilization of local resources in partnership with local governments; improvement of resilience
- Proposals for new lifestyles

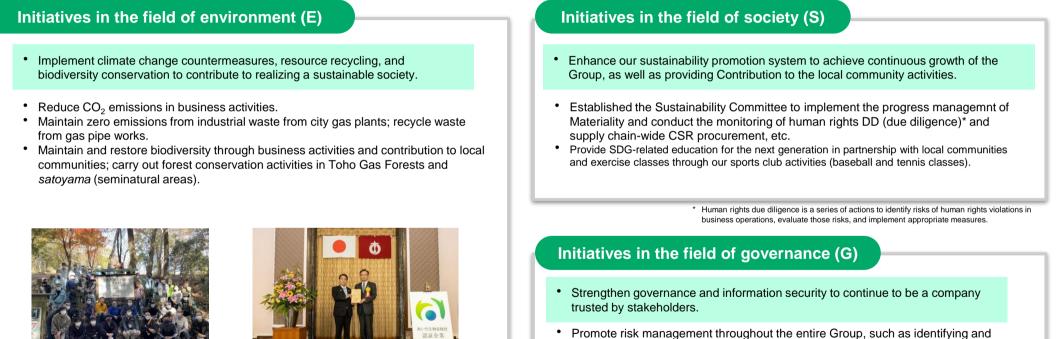
* A ZEH-M Oriented certification is given to condominiums that have reduced primary energy consumption by more than 20% for the entire building, including common areas.

Local resilience

- Contributing to improve the resilience of the entire community through industrygovernment-academia collaboration.
- Participation in joint disaster drills and community disaster prevention events with government, municipalities, and other businesses.
- Prediction of damage from wind and flood damage, which has been occurring frequently in recent years, and study & evaluation of response measures.



We will steadily address ESG issues toward the realization of sustainability.



Forest conservation activities at Toho Gas Forest Mitake

Granted Aichi biodiversity company

certification (November 2022)

video trainings, and promote use of the compliance consultation desk. · Carry out cross-departmental drills for potential cyber-attacks.

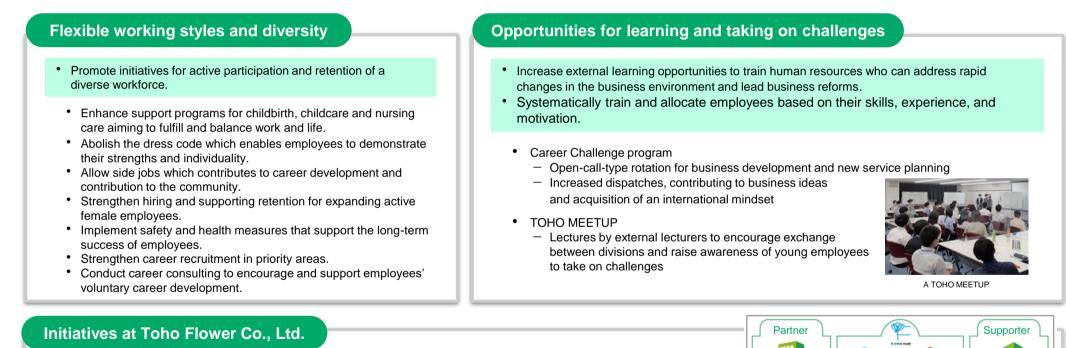
assessing key risks and implementing measures to reduce risks.

Ensure thorough compliance with laws such as the Anti-Monopoly Act through web

Contribute to the SDGs

(C) Improve work satisfaction and ease of work and promote diversity

We will promote flexible workstyles and diversity, and increase opportunities for learning and taking on challenges so that diverse human resources can fully exercise their motivation and abilities.



ubsidiaries and

employment suppor

facilities in the Tokai are

• Together with a student venture firm, Toho Flower Co., Ltd., a special-purpose subsidiary, launched "Flower Maid", a community contribution project linking companies and welfare facilities in the Tokai area for "promotion and support to the employment of people with disabilities" and "support career education for young people, mainly students."

Supporting companie

the Tokai area

II Reference material: Sales volume and investment

customers1 2.87 Million 2.92 Million 2.98 Million 1 Total number of customer accounts of city gas, LPG, and electricity Me	ch 3 million at an early stage edium-term agement plan	
Me		
	rget (FY2025)	
	ntain the same rel as in 2021	
LPG 486 thousand tons 476 thousand tons 480 thousand tons Approx	x. 10% increase	
	x. 10% increase each year	
2 Includes LNG sales volume (Converted to the amount of city gas)		
FY2021 (actual) FY2022 (estimated) FY2023 (plan) mana	edium-term agement plan target	
	FY2022–2025 total	
	80 billion yen ore : Strategic	
Total 60.3 billion yen 60.6 billion yen 70.4 billion yen	= 1 : 1)	

3 Businesses that create cash flow as a long-term stable earnings base (e.g., city gas, LPG)

4 Businesses that drive medium- to long-term growth (e.g., electricity, energy services, living/business support)

あしたがすてきに! TOHO GAS

Earning forecasts and other forward-looking statements in this document are management's current views and beliefs in accordance with data currently available, and are subject to a number of risks, uncertainties and other factors that may cause actual results to differ materially from those projected.