

September 2026

CREATING A BRIGHTER FUTURE FOR ALL

A Green and Resilient Global City Tokyo Opens up a Future





Introduction

The Tokyo Metropolitan Government (TMG) aims to realize Tokyo as a green and resilient global city that is sustainable, safe, secure, and comfortable, opening up a future where growth and maturity are balanced.

This booklet uses graphs and illustrations to clearly present the goals and initiatives outlined in TMG's environmental policies, making them easy for the public to understand and access.

Photo: Umi no Furusato Mura on Oshima Island



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Photo: Grand Prize-winning entry in the 8th Clear Sky Photo Contest

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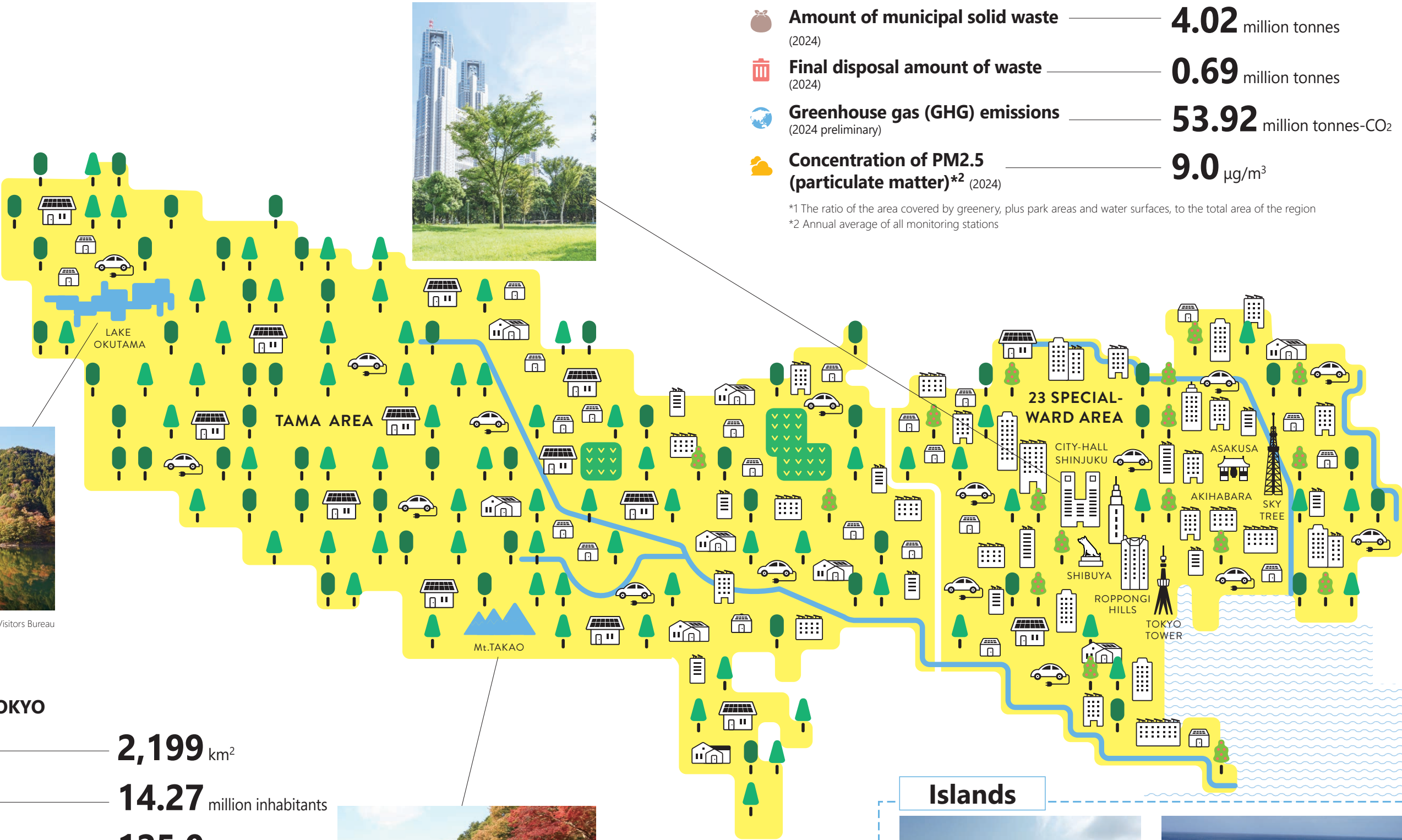
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TOKYO DATA

ENVIRONMENTAL INFORMATION

	Green rate *1	52.1 %
	(2023)	
	Amount of municipal solid waste	4.02 million tonnes
	(2024)	
	Final disposal amount of waste	0.69 million tonnes
	(2024)	
	Greenhouse gas (GHG) emissions	53.92 million tonnes-CO ₂
	(2024 preliminary)	
	Concentration of PM2.5 (particulate matter)*2	9.0 µg/m ³
	(2024)	

*1 The ratio of the area covered by greenery, plus park areas and water surfaces, to the total area of the region
*2 Annual average of all monitoring stations



Islands



Mt. Mihara, Oshima Island



Minami-jima Island, Ogasawara Islands

PROFILE OF TOKYO

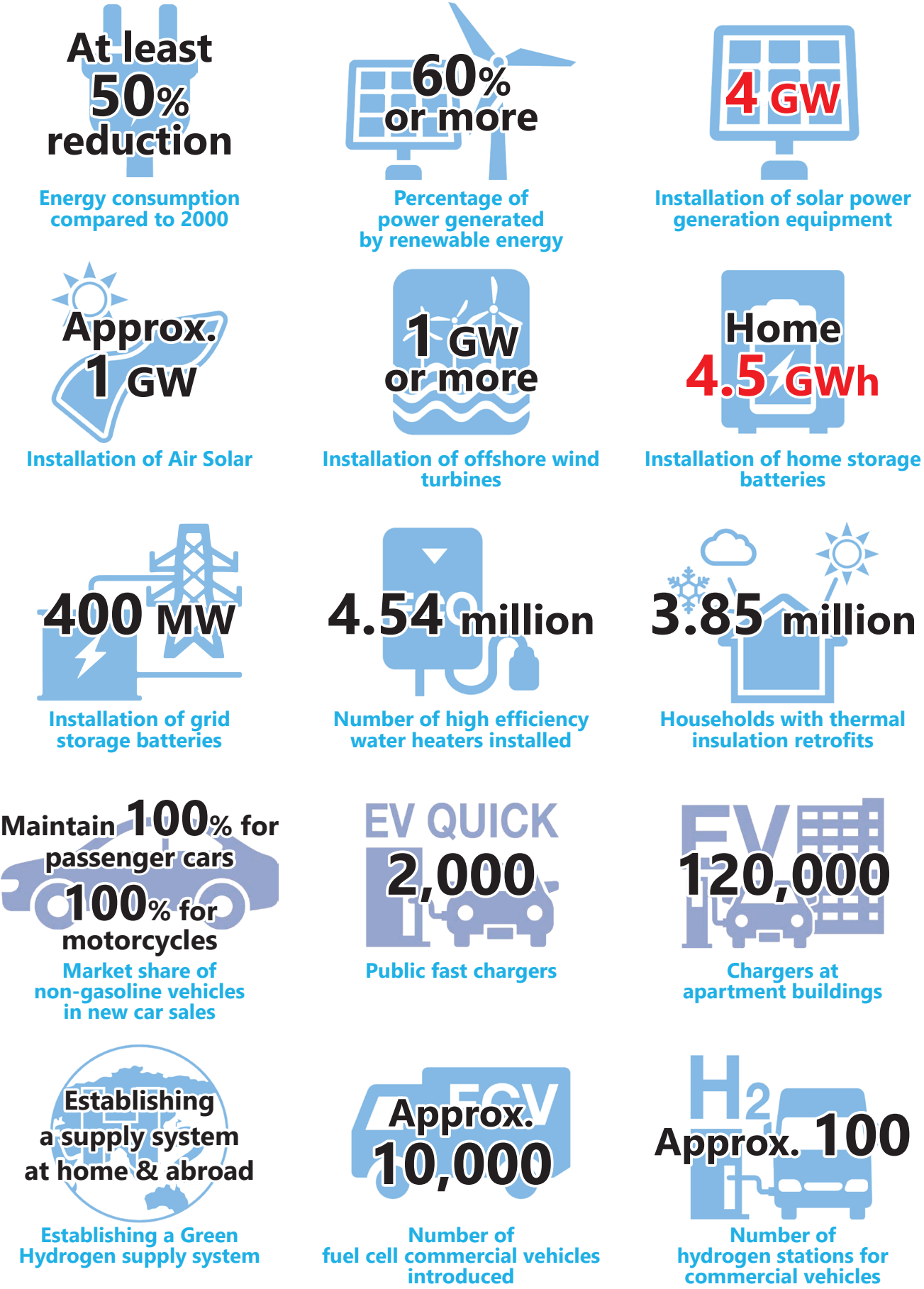
	Area	2,199 km ²
	(2025)	
	Population	14.27 million inhabitants
	(January 2026)	
	GDP	125.0 trillion yen
	(2023)	(21.0% of national GDP)
	Number of enterprises	628 thousand
	(2021)	
	Number of foreign tourists	28.65 million
	(2025)	



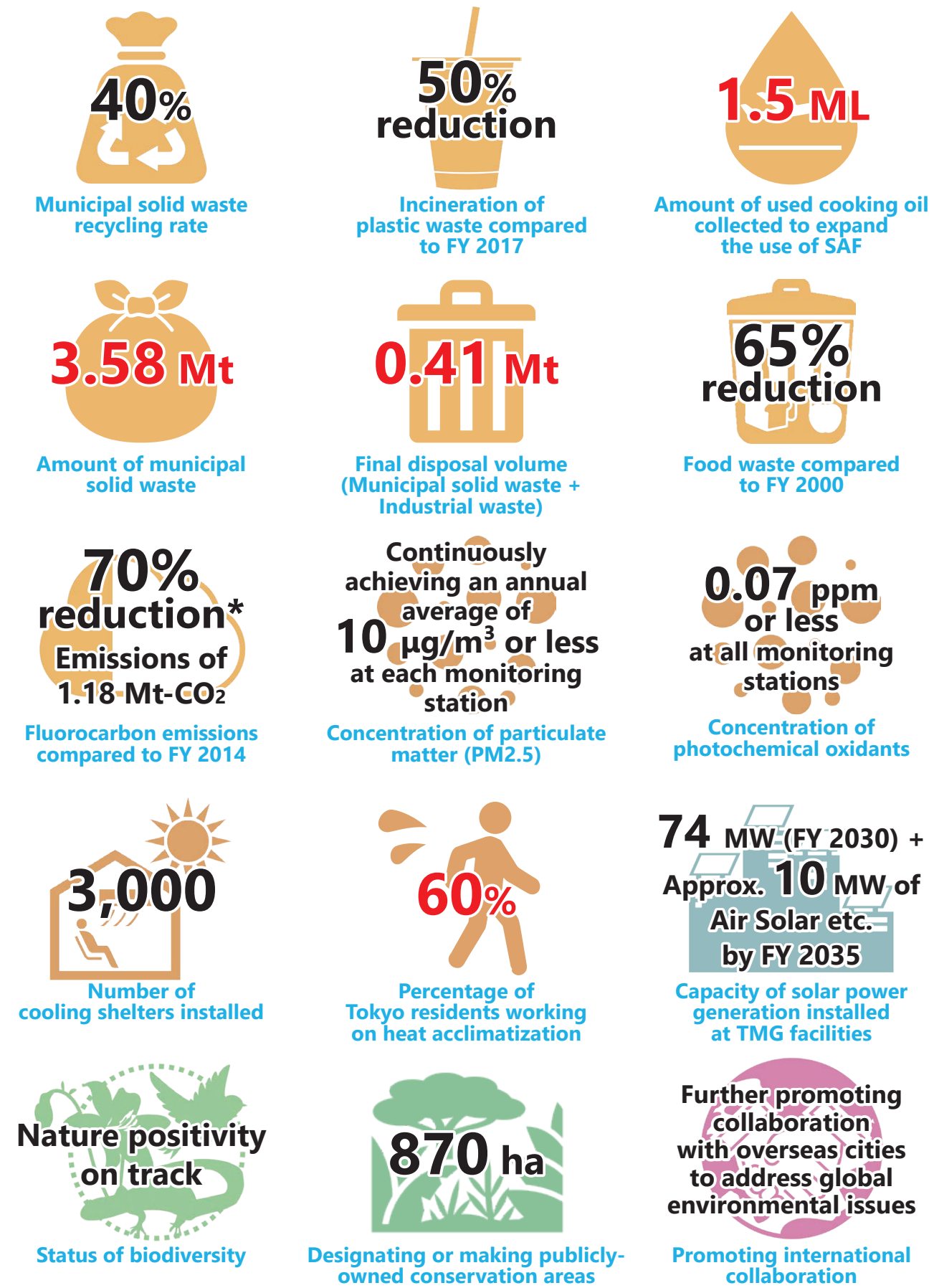
© Tokyo Convention & Visitors Bureau

Main 2035 Goals in TMG’s Environmental Initiatives

To realize the city vision TMG is striving for, we are advancing a wide range of initiatives based on diverse goals, including reducing greenhouse gas emissions by at least 60% from 2000 levels by 2035.



* Text in red refers to goals newly established or revised upward in January 2026.



* Target value reconsidered in light of the revised national calculation method

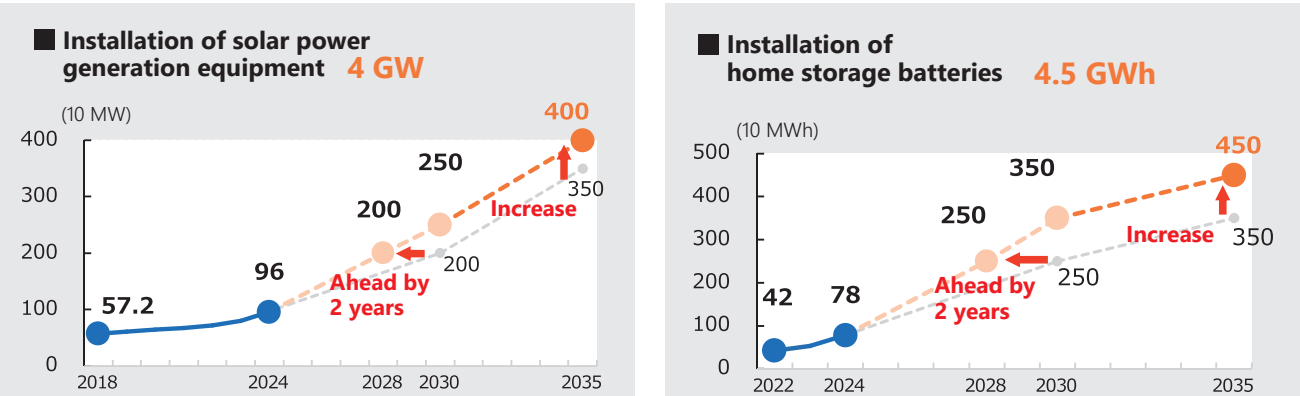
Realizing a Zero Emission Tokyo

To realize a Zero Emission Tokyo by 2050, TMG has set a goal of reducing greenhouse gas emissions by at least 60% from 2000 levels by 2035, and is promoting a variety of initiatives to help achieve it.

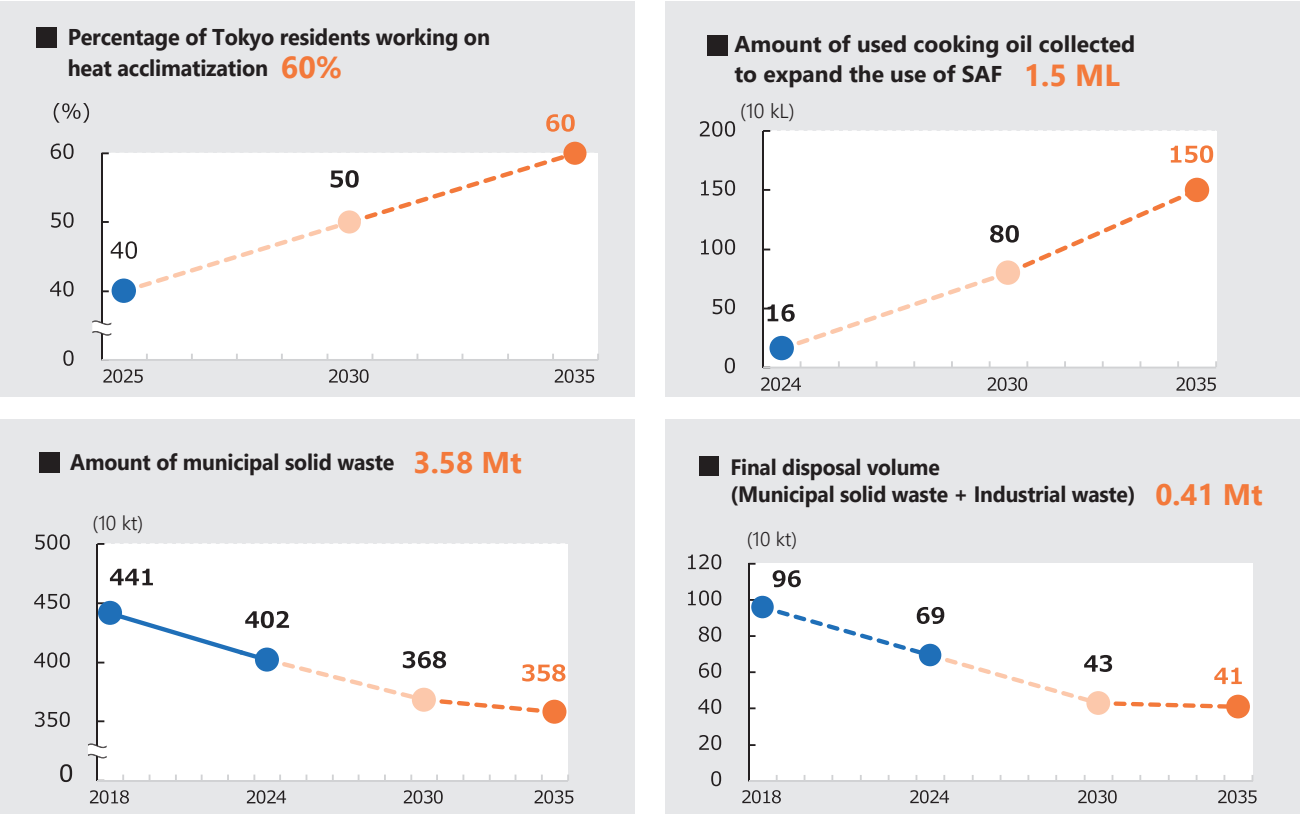
These policies have already yielded tangible results. Based on their progress, TMG has decided to further advance the initiatives by raising targets that have been progressing well to accelerate efforts, while also establishing new goals in response to changes in circumstances.

Specifically, we have revised upward our targets for the installation of solar power generation equipment and home storage batteries, both of which have seen significant growth in adoption. New targets have also been established to promote the expanded use of SAF in anticipation of the World Athletics Championships, as well as to reflect revision to plans for sustainable resource management and waste management. In addition, new goals have been set to protect the lives and health of Tokyo residents from extreme summer heat.

Upward revision



New goals



“Tokyo Cool Biz” Keeps You Cool!

In light of the uncertain energy outlook, TMG is promoting “Tokyo Cool Biz” year-round as a new lifestyle standard. The initiative focuses on staying cool in three areas, work, home, and clothing, helping people to achieve both smart energy efficiency and a comfortable lifestyle.



TOKYO Clean-up Action

In recent years, the growing number of visitors to Tokyo and other factors have given rise to issues that undermine the city's environmental cleanliness and the conservation of its natural environment. As a result, ensuring a clean and attractive urban environment has become increasingly important.

TMG is implementing the TOKYO Clean-Up Action initiative to enhance environmental cleanliness across the city through anti-littering measures, in collaboration with municipalities, businesses, organizations, and other stakeholders.





Realization of a Zero Emission Tokyo

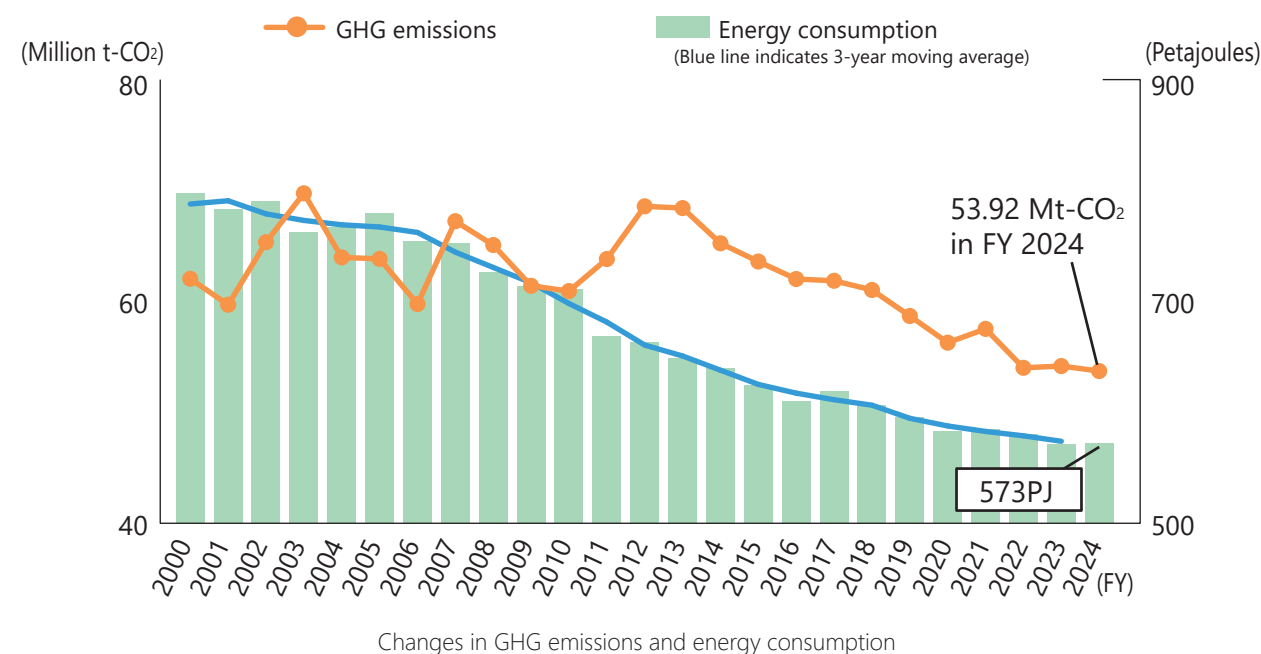
For the realization of a decarbonized society, it is essential to promote drastic transformations in various fields, including energy, urban infrastructure, and resource use.

TMG aims to realize a Zero Emission Tokyo in order to fulfill its responsibility as a major consumer of energy and resources and continue to be a city that achieves resilient and sustainable growth.

► Energy Consumption and Greenhouse Gas Emissions in Tokyo

Energy consumption in Tokyo passed its peak around FY 2000 and has been steadily decreasing since then.

Greenhouse gas emissions in Tokyo increased after the Great East Japan Earthquake in March 2011, but have been trending downward since FY 2012 because of reduced energy consumption and improvements in the CO₂ emission factors of electricity.



► Sectoral Targets

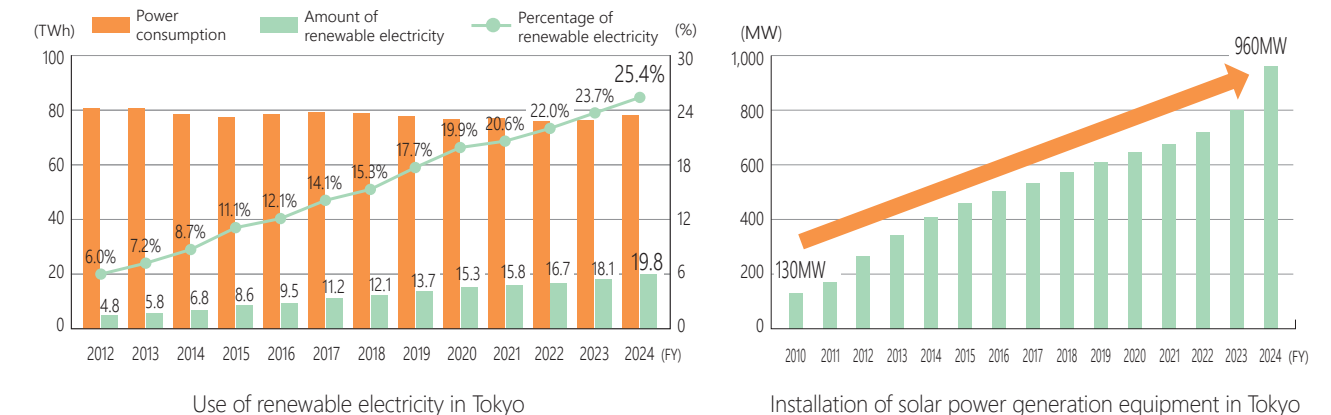
To realize a 2030 Carbon Half, sectoral targets have been set for energy-related CO₂ emissions and energy consumption to promote reduction measures in each sector.

Energy-related CO ₂ emissions			Energy consumption		
	FY 2024 (preliminary results)	2030		FY 2024 (preliminary results)	2030
Industrial/commercial sectors	-12.2%	Approx. 50% reduction	Industrial/commercial sectors	-25.3%	Approx. 35% reduction
Residential sector	+22.1%	Approx. 45% reduction	Residential sector	+4.9%	Approx. 30% reduction
Transport sector	-54.1%	Approx. 65% reduction	Transport sector	-57.3%	Approx. 65% reduction

Making Renewable Energy a Major Energy Source

To realize a Zero Emission Tokyo, it is inevitable that we need to further promote energy efficiency and convert from fossil fuels to decarbonized energy, such as renewable energy.

Aiming to decarbonize all the energy used by 2050, TMG is developing efforts for the local production, consumption, and expanded use of renewable electricity.

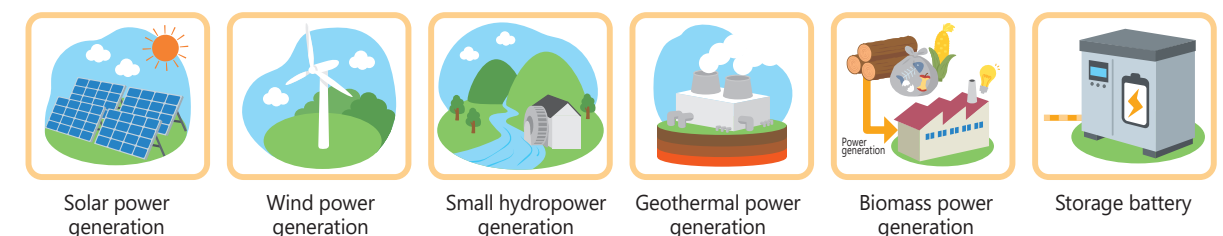


► Drastically Increasing the Use of Renewable Power

Promoting local production and consumption of renewable energy at facilities

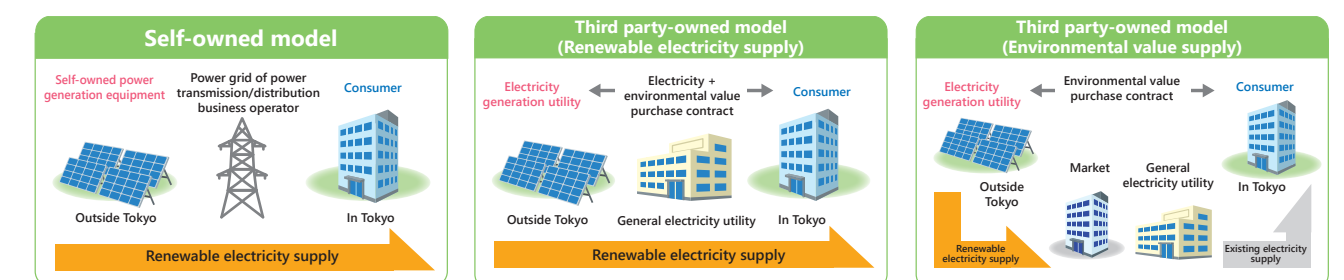
In order to expand the use of renewable energy in and outside Tokyo (within the service area of Tokyo Electric Power Company*), TMG has been subsidizing facilities of private businesses and municipalities that will install renewable energy power generation equipment, including solar and wind power generation, heat utilization equipment, including ground source heat and solar heat, and storage batteries, with the concept of local production and consumption.

* Other requirements will be applied.



Procuring renewable power sources etc. outside Tokyo

Due to regional characteristics that limited land makes large-scale renewable energy installations challenging within Tokyo, TMG subsidizes businesses in Tokyo working on the use of renewable electricity and an environmental value for the installation of renewable energy power generation equipment and storage batteries outside of Tokyo.



▶ Expanding the Use of Air Solar

Air Solar*, a new technology developed in Japan, is thin, light, and flexible, and can be installed on building exteriors, making it essential for the further expansion of renewable energy.

TMG will develop a roadmap that sets installation targets for Air Solar in Tokyo, and is committed to realizing a “power-generating future city” by strategically promoting its adoption in collaboration with a wide range of stakeholders.

*Air Solar:

Solar cells that use a crystal structure called perovskite. The name Air Solar was selected through the Next Generation Solar Cell Naming General Election from July 4 to 31, 2025.

Setting installation targets

Installation in Tokyo

◆**2035 target: Approx. 1 GW** Including approximately 10 MW* installed in TMG facilities

* Including building-integrated photovoltaic (BIPV) systems in addition to Air Solar

◆**2040 target: Approximately 2 GW**

Reference: The national government’s installation target is approximately 20 GW.

Approx. 10% of the national government’s installation target

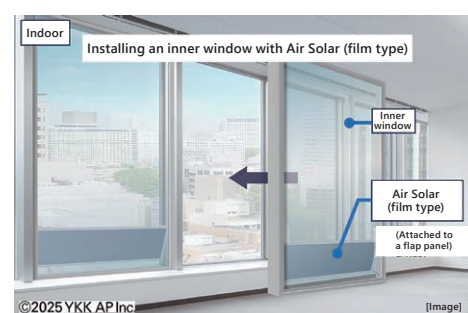
Initiatives to achieve the targets

Verification of implementation

- Testing the durability and other properties of Air Solar at TMG facilities, including port facilities

Developer support

- Subsidizing the cost of demonstration projects conducted by developers in Tokyo to encourage early commercialization



Subsidies for a developer (project adopted in FY 2025)
Inner window with Air Solar

Efforts to establish construction methods and create demand

- Initial introduction to TMG facilities, subsidizing introduction by private businesses and municipalities, and public relations activities to promote widespread adoption

Support for mass production and market development

- Subsidizing the costs of placing coordinators who connect developers with municipalities and private businesses, as well as the costs of exhibiting at domestic and international trade shows



Initial introduction to TMG facilities
A garden light in Odaiba Marine Park

Scan for the roadmap:



- Sets installation targets to encourage businesses to build production systems
- Summarizes the direction of efforts to achieve the targets

Air Solar

Name concept:

- Can be installed anywhere, just like air
- An acronym for Anywhere, Innovative, and Renewables

▶ Introducing Floating Offshore Wind Turbines

In order to realize a 2050 Zero Emission Tokyo, it is necessary to expand the introduction of offshore wind turbines which are crucial for making renewable energy the primary power source.

Requirements for introducing turbines in the Izu Islands waters

TMG aims to introduce a gigawatt-class farm*1 of floating offshore wind turbines in the waters around the Izu Islands. Five*2 zones of these waters have been classified by the national government as preparation zones under the Marine Renewable Energy Act. We are committed to making the most of the potential of the waters to contribute to the realization of zero emissions on the islands.



Rampion Offshore Wind Farm in UK

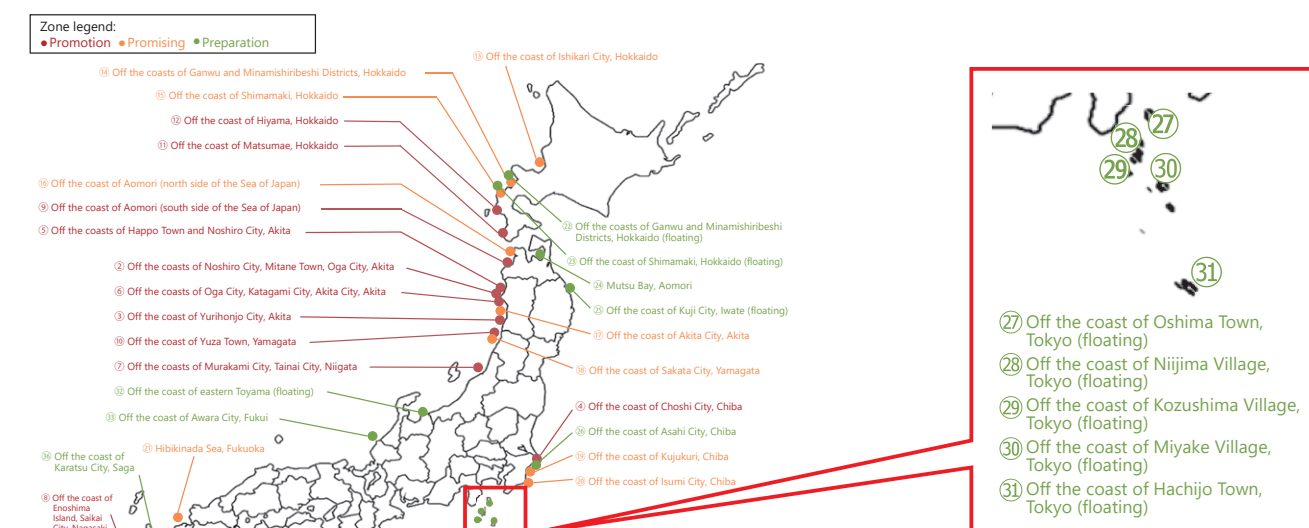
*1 Can cover the annual power consumption of 900,000 average households

*2 Off the coasts of Oshima Town, Nijima Village, Kozushima Village, Miyake Village, and Hachijo Town

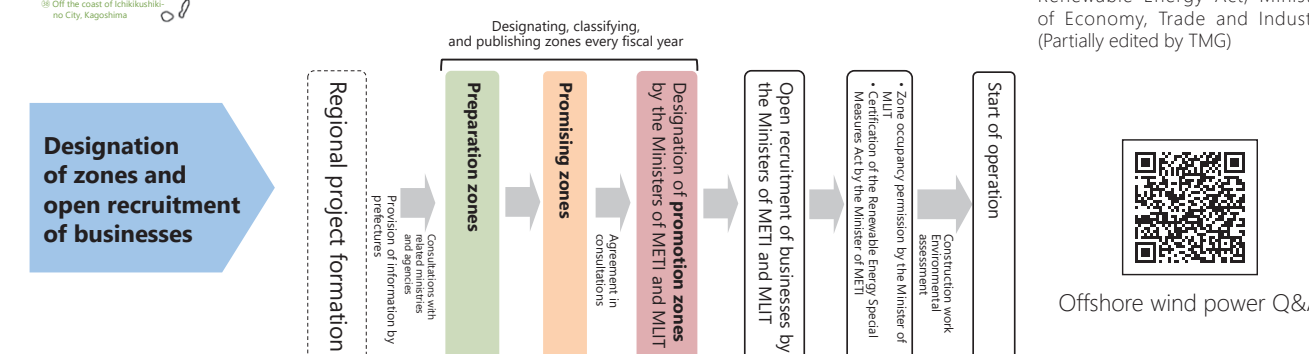
To introduce offshore wind turbines, it is necessary to coexist with existing users of the waters, including parties engaged in fishing, tourism, and ship navigation in addition to giving consideration to the natural environment, ecosystems, and landscape.

TMG is committed to gaining the understanding and cooperation of local residents by showing the benefits of wind power generation, such as improvements in disaster preparedness.

Designation and classification of zones under the Marine Renewable Energy Act as of October 3, 2025



Source: Designation of Zones, Open Recruitment of Businesses, and Project Formation under the Marine Renewable Energy Act, Ministry of Economy, Trade and Industry (Partially edited by TMG)



► Increasing Renewable Electricity Supply

Efforts for electricity suppliers

To improve the environmental properties of electricity supplied to Tokyo, TMG requires retailers of electricity (and other providers) for Tokyo to set targets for renewable energy volume and report the results through the Environmental Energy Reporting Program.

Outline of the Environmental Energy Reporting Program

Targets

- ✓ Retail electricity providers and general power transmission/distribution operators who supply electricity to Tokyo

Objectives:

Improvement of the quality of energy supplied to Tokyo

- ✓ Reduction of CO₂ emissions
- ✓ Promotion of the introduction of renewable energy etc.

Environmental Energy Reporting Program:

Formulation, submission, and publication every year

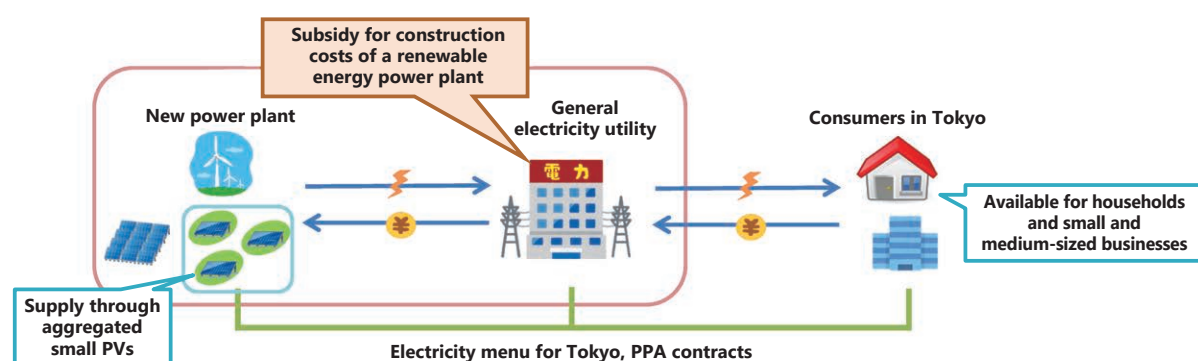
- ✓ Goals and reporting of CO₂ emission factors
- ✓ Goals and achievements of the use of renewable energy etc.

Key points

- ✓ Set and publish the FY 2030 target ratio of renewable electricity
- ✓ Develop an environment with a wide variety of renewable electricity options to choose from
- ✓ Enhance information dissemination by TMG and create an easy-to-use information database for consumers

Supporting retail electricity providers in developing new renewable energy equipment

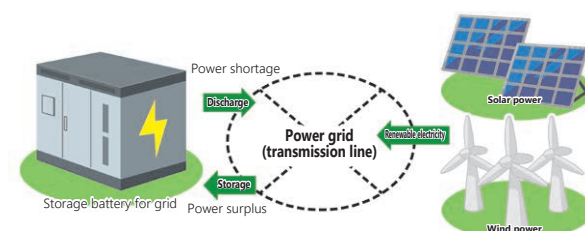
To achieve a renewable electricity ratio of approximately 50% by FY 2030, it is essential to increase the supply of renewable electricity by general electricity utilities. TMG is promoting the supply of renewable electricity to Tokyo by helping general electricity utilities develop renewable power sources that currently lack designated supply destinations.



Promoting efforts to ensure stable energy supply

Renewable electricity needs stable grid power as the amount of power generated fluctuates greatly depending on the weather, time of day, etc.

For businesses that balance the supply and demand of electricity, TMG subsidizes the introduction of large storage batteries directly connected to the power grid within the service area of Tokyo Electric Power Company.

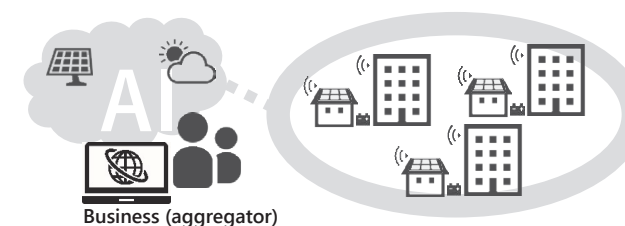


► Advanced Energy Management Using AI and IoT

Stabilizing electricity demand

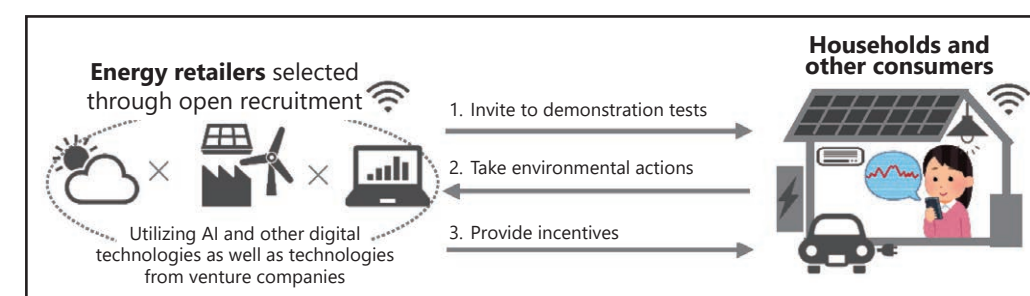
The efficient use of renewable energy requires the effective optimization of electricity demand through AI and IoT in addition to timely power saving.

TMG will promote aggregation businesses that bundle distributed energy resources, such as storage batteries owned by households and businesses, and control them according to demand.



Creating a new business model

In order to create a new business model that promotes environmental actions or behavioral change toward decarbonization in households, TMG will support the efforts of energy retailers by for example leveraging the technologies of startups.



Column

You Are Environment Ambassador at Home from Today!

Realizing a Zero Emission Tokyo by 2050 requires children, who will shape the future, to learn about the environment and share what they have learned and discovered with their families.

Since FY 2022, TMG has been conducting the Environment Ambassador at Home project in which children act as environmental leaders, saving electricity and enjoying other benefits with their family members.

We also host events such as the Environment Ambassador at Home Summit where children present their activities to the governor of Tokyo, and the Mirai Discovery Festa, where parents and children can learn about eco-friendly actions through hands-on experiences.

We issue participants with certificates appointing them as Environment Ambassador at Home, thereby encouraging further behavioral change.



Mirai Discovery Festa

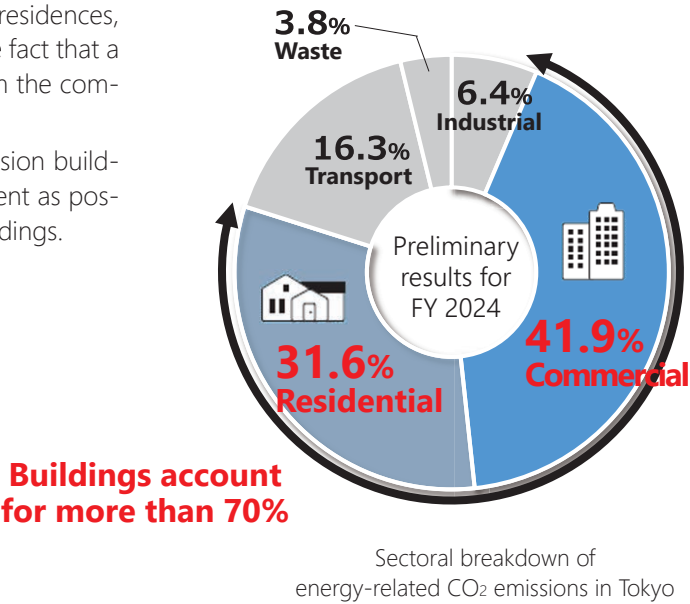


Environment Ambassador at Home Summit Spring 2026

Expanding Zero Emission Buildings

Tokyo is home to densely built office buildings, residences, and other structures, and is characterized by the fact that a large part of the city's CO₂ emissions come from the commercial and residential sectors.

TMG will accelerate the realization of zero emission buildings by making energy use at buildings as efficient as possible and decarbonizing the energy used at buildings.



Strengthening Programs to Accelerate Zero Emission Buildings

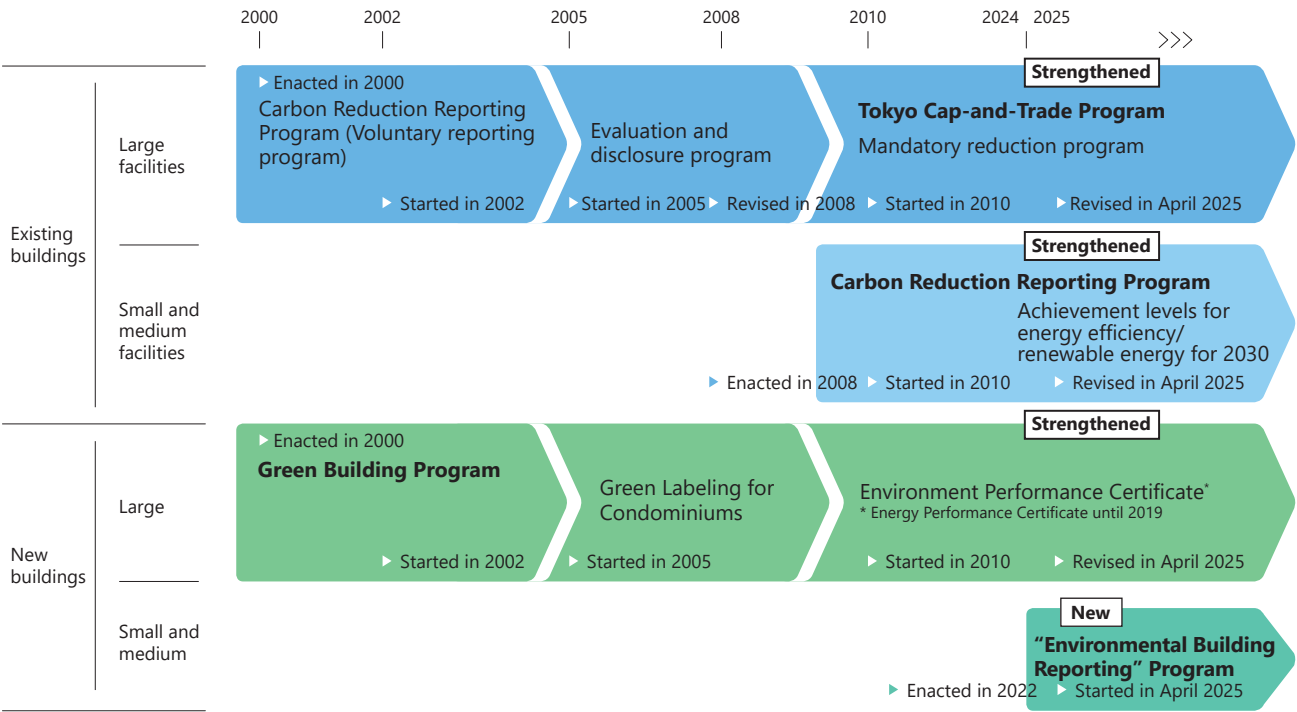
TMG has developed effective programs according to building type (new or existing) and size (large or small/medium).

Tokyo Cap-and-Trade Program for large facilities

Carbon Reduction Reporting Program for small and medium-sized facilities

Green Building Program for New Buildings for buildings of a certain size, which are newly built, expanded, or renovated

Environmental Building Reporting Program which requires certain small and medium-sized new buildings to install renewable energy equipment, including solar power generation equipment



The World's First Urban Cap-and-Trade Program for Large Facilities

In April 2010, TMG started the Tokyo Cap-and-Trade Program targeting large facilities.

The total emissions from facilities covered by this program account for approximately 40% of the emissions from the industrial and commercial sectors in Tokyo. Covered facilities must reduce a specified amount by implementing emission reduction measures on their own or conducting emissions trading.

In the fourth compliance period from FY 2025, TMG will further pursue energy efficiency and promote the expanded use of renewable energy by increasing the compliance factors and enhancing options to meet reduction obligations, such as introducing renewable energy from outside facilities.

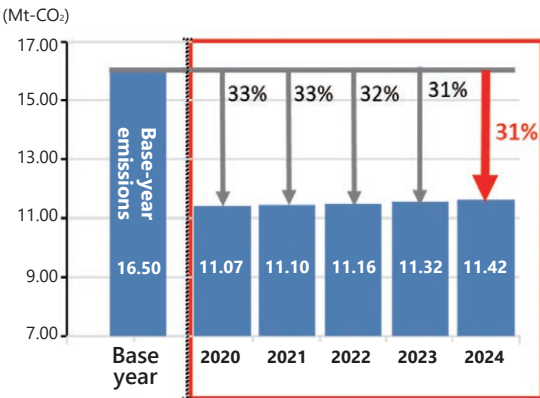
Efforts made by applicable facilities are depicted and published so that they can be understood at a glance, showing trends from the past and comparisons with average values in Tokyo and other facilities.



Tokyo Cap-and-Trade Program Dashboard

Covered facilities	Approximately 1,200 facilities which annually use at least 1,500 kL of energy in terms of crude oil equivalent
Applicable gases	CO ₂ emitted from the use of fuel etc.
Compliance periods (5 years for each)	1st compliance period: FY 2010 – 2014 2nd compliance period: FY 2015 – 2019 3rd compliance period: FY 2020 – 2024 4th compliance period: FY 2025 – 2029
Compliance factors	1st compliance period: 8% for office buildings etc. and 6% for factories etc. 2nd compliance period: 17% for office buildings etc. and 15% for factories etc. 3rd compliance period: 27% for office buildings etc. and 25% for factories etc. 4th compliance period: 50% for office buildings etc. and 48% for factories etc.
Emissions trading	Excess emission reductions and four types of offset credits can be traded
Penalties	Order for Action (reduction of 1.3 times the shortage), monetary fines (up to 500,000 yen), and/or disclosure of violations

Third compliance period (Compliance factor: 27% or 25%)



Emission reductions during the third compliance period

Carbon Reduction Reporting Program for Small and Medium-Sized Facilities

TMG introduced the Carbon Reduction Reporting Program for Small and Medium-Sized Facilities in April 2010 to understand the amount of CO₂ emissions from small and medium-sized facilities and promote energy efficiency measures at these facilities. Since FY 2025, we have strengthened the program by for example introducing a mechanism for businesses to formulate targets and plans through FY 2030 based on the achievement levels for energy efficiency and renewable energy utilization set by TMG.

Outline of the Carbon Reduction Reporting Program for Small and Medium-Sized Facilities

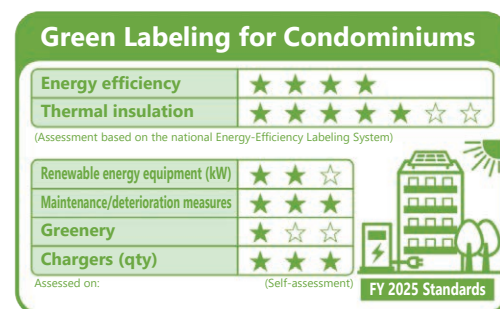
Targets

- ✓ Businesses that have facilities with annual energy consumption of less than 1,500 kL in terms of crude oil equivalent
- ✓ TMG publishes achievement levels for FY 2030 and businesses report on target setting and achievement status
- ✓ Expand items to be reported and published on the use of renewable energy
- ✓ Visually depict efforts made by facilities etc. from three perspectives: energy efficiency, renewable energy use, and CO₂ reduction

▶ Green Building Program for New Buildings

Based on its ordinances, TMG has been implementing the program to require owners who build large buildings to submit a Building Environmental Plan. An outline of the plan is then made public by TMG.

Starting in FY 2025, we will encourage further improvements in the environmental performance of new buildings by strengthening energy efficiency performance standards and mandating the installation of renewable energy equipment.



Green Labeling for Condominiums

Outline of the Green Building Program for New Buildings

Targets

- ✓ Building owners who construct buildings, including new constructions, renovations, or extensions, with a total floor area of at least 2,000 m²

Thermal insulation and energy efficiency performance standards

- ✓ Strengthen standards for houses and other buildings to mandate thermal insulation and energy efficiency performance that exceeds the national standards

Renewable energy installation standards (solar power generation equipment)

- ✓ **Require the installation of renewable energy equipment**, such as solar power generation equipment
- ✓ **Require on-site installation in principle**, but **allow off-site installation or the procurement of renewable electricity under certain conditions**

ZEV charging equipment standards

- ✓ Require new buildings with a certain minimum number of parking spaces **to install chargers, piping, etc.**

Others

- ✓ Strengthen and expand criteria, which include new perspectives, such as adaptation measures and the procurement of low-carbon materials, to evaluate the efforts of building owners who take on high-level challenges
- ✓ For houses: Mandate the inclusion of **Green Labeling for Condominiums** to indicate environmental performance in advertisements for the sale etc. of condominiums
- ✓ For other buildings: Mandate the issue of an **Environment Performance Certificate** for rental properties etc. over a certain size to indicate their environmental performance

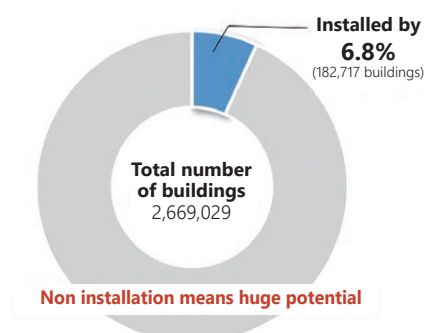
▶ Environmental Building Reporting Program

The status of houses in Tokyo and the background of the establishment of the program

Roughly 70% of all CO₂ emissions in Tokyo are caused by the use of energy at buildings.

It is extremely important to take measures for new buildings as they will shape the Tokyo of 2050. It is expected that about half of all existing buildings (70% of which are houses) will be replaced by new buildings by that year.

TMG will make the most of the huge potential of the metropolis of Tokyo's rooftops as the installation of solar power generation equipment on residential roofs in the city has been limited until now.



*1 "Total number of buildings" is as of FY 2022.

*2 Figures for "Installed by" are estimated for FY 2024.

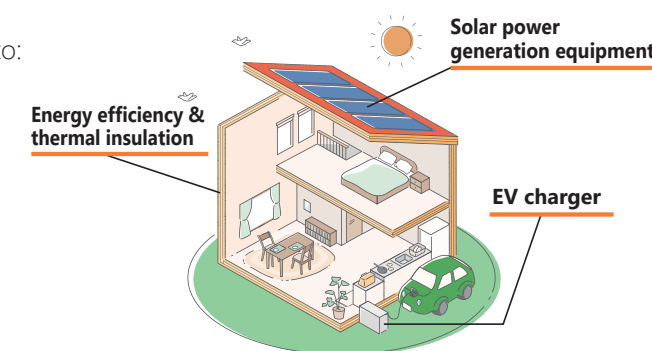
Outline of the Environmental Building Reporting Program

In FY 2025, TMG launched the program requiring or encouraging major house builders and other businesses that supply a total of 20,000 m² or more of floor space annually in Tokyo to ensure high standards of thermal insulation and energy efficiency and to install solar power generation equipment in newly built homes and other buildings.

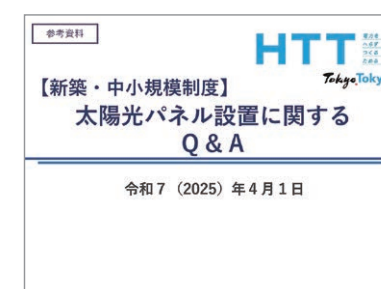
Five Obligations for Covered Businesses

For newly constructed buildings, it is mandatory to:

- (1) **Ensure thermal insulation and energy efficiency performance.**
- (2) **Install solar power generation equipment.**
- (3) **Install an electric vehicle charger.**
→ TMG's standards must be met.
- (4) **Explain** the environmental performance of a newly constructed building **to its owner or purchaser.**
→ The matters specified by TMG must be explained.
- (5) **Report on compliance with the standards** (Submit an Environmental Building Report).
→ TMG publishes the contents of the report from the businesses.



Through this program, businesses will develop products and services that will fully bring out the benefits of solar power generation, and houses providing high environmental performance with solar power generation equipment will be standardized, increasing options available to Tokyo residents.



Tokyo
Solar Portal

▶ Making New Houses Zero Emission

Supporting the supply and development of houses compliant with the new program

All newly constructed houses and buildings are required to meet energy efficiency standards. TMG is promoting the standardization of constructing zero emission houses by creating a virtuous cycle of supplying houses with high environmental performance and stimulating demand for them.

- ✓ Increase the number of businesses constructing houses with high environmental performance and installing solar power generation systems by supporting technical advancements of local contractors and product development by small and medium-sized house builders not currently subject to regulatory requirements
- ✓ Recognize ambitious businesses that promote the spread of buildings with high environmental performance
- ✓ Promote the understanding of the environmental performance of houses through public relations tailored to specific targets, such as people considering purchasing homes or relocation
- ✓ Communicate a variety of benefits, such as environmental friendliness, reduced utility costs, and living comfortably all year round



Tokyo Eco Builders Award 2026



Special website
"Hello! Energy-Efficient Home,
Comfortable Living"



Promotion of Tokyo Zero Emission Houses

To ensure the expansion of houses with high environmental performance which take into account the regional characteristics of Tokyo, TMG subsidizes newly built Tokyo Zero Emission Houses that meet its standards according to their performance levels. We work to further promote the widespread adoption of houses with high environmental performance by raising the standards for thermal insulation and energy efficiency performance and requiring the installation of solar power generation equipment and other renewable energy equipment in principle starting in October 2024.

	Average heat transmission coefficient of shell in W/m ² ·K	Reduction rate from energy efficiency standards excluding renewable energy	
		Detached houses	Apartment buildings etc.
Level A	0.35 or less	45% or more	40% or more
Level B	0.46 or less	40% or more	35% or more
Level C	0.60 or less	30% or more	30% or more

+ Installation of renewable energy equipment (solar power generation equipment etc.) in principle

Thermal insulation and energy efficiency of Tokyo Zero Emission House at three levels



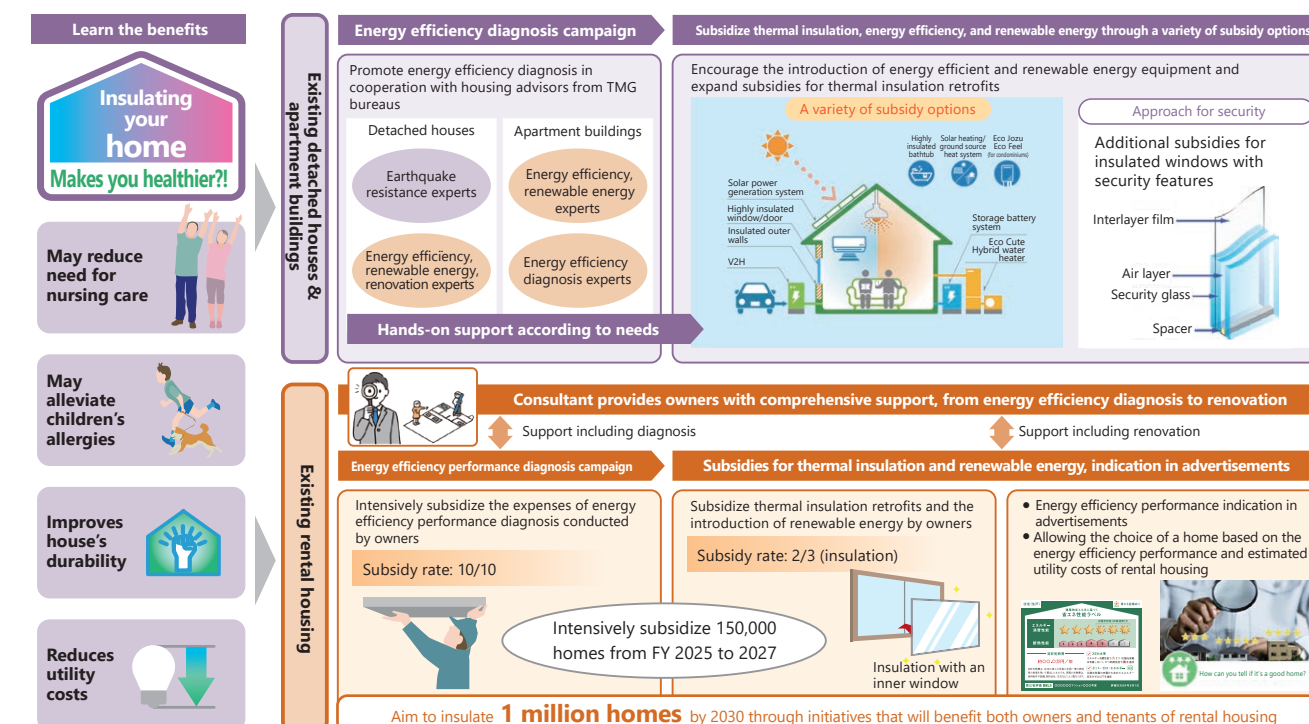
Average heat transmission coefficient of shell:
An index of thermal insulation performance. The smaller the number, the better the insulation performance.

Reduction rate from energy efficiency standards:
An index of the energy efficiency performance of equipment. The higher the number, the better the energy efficiency.

▶ Promoting Energy Efficiency and Renewable Energy at Existing Housing

While developing energy efficiency diagnosis and renovation campaigns in collaboration with housing advisors from its bureaus, TMG provides support for improvements in thermal insulation and the introduction of energy efficient and renewable energy equipment through a variety of subsidy options.

We are promoting thermal insulation retrofits and the introduction of renewable energy in rental housing through energy efficiency performance diagnosis, hands-on support through concierge services, and performance indication in housing advertisements.

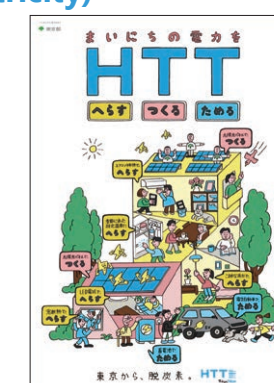
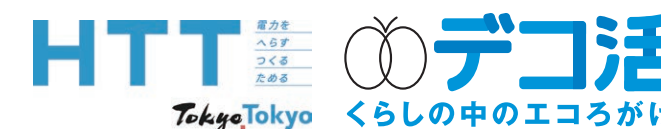


▶ Accelerating Momentum and Behavioral Change

(㊤ Herasu (Save), ㊤ Tsukuru (Generate), and ㊤ Tameru (Store) Electricity)

Using HTT (㊤Herasu (save), ㊤Tsukuru (generate), and ㊤Tameru (store) electricity) as a central concept, TMG is promoting efforts to realize a decarbonized society. We are also supporting the Ministry of the Environment's "Decokatsu" initiative, which encourages both decarbonization and eco-friendly lifestyles.

To accelerate behavioral change in energy use among Tokyo residents, TMG is developing campaigns to promote energy efficiency and encourage the widespread adoption of solar power generation equipment. These efforts include holding events and conducting strategic public outreach across a variety of media.



HTT poster

Promoting zero emission action at home through zero emission points

Through the Tokyo Zero Emission Point program, TMG provides subsidies for replacing home appliances, such as air conditioners, refrigerators, water heaters, and LED lighting fixtures, with high energy efficiency models.

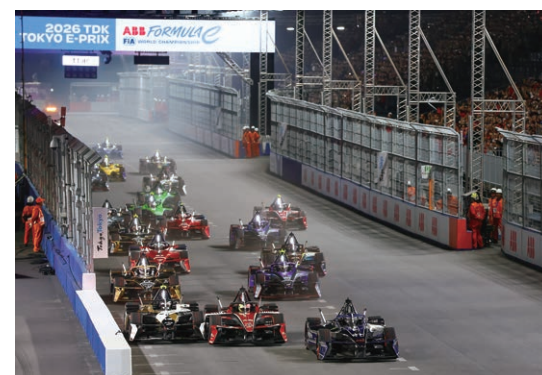
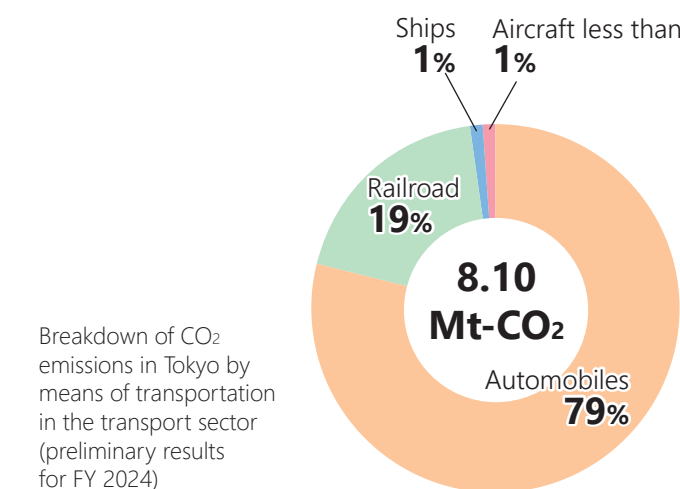
In addition, we support the purchase of highly energy-efficient air conditioners by older adults and persons with disabilities, who are at greater risk of heatstroke.



Promoting Zero Emission Mobility

TMG aims to eliminate the sale of new gasoline passenger cars by 2030 and new gasoline motorcycles by 2035 in Tokyo, accelerating the introduction of zero emission vehicles (ZEVs) and the development of infrastructure.

We also bring the ABB FIA Formula E World Championship to Tokyo to raise awareness of ZEVs.



2026 TDK Tokyo E-Prix

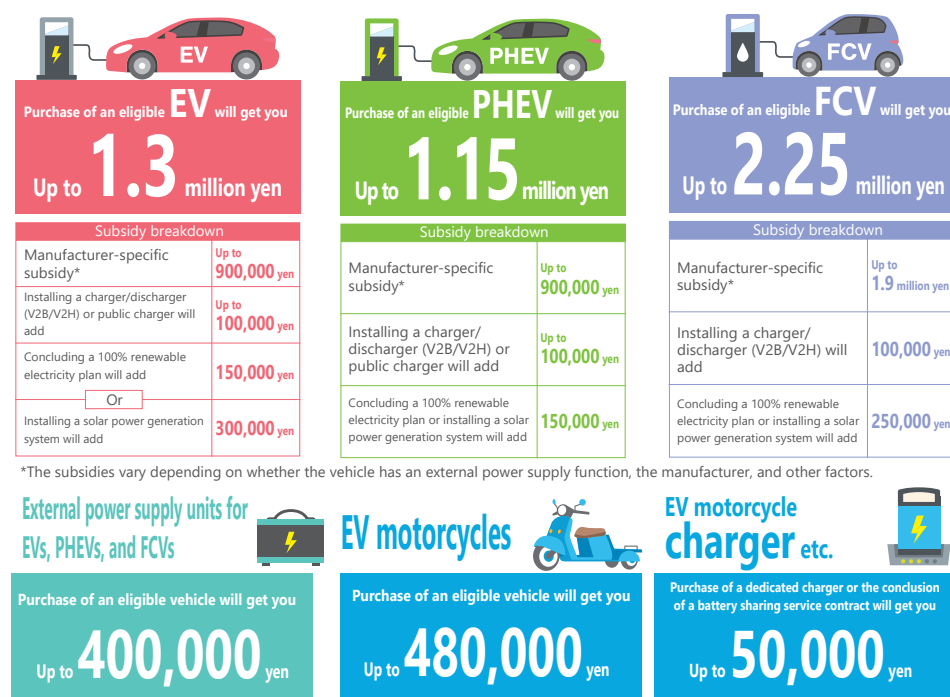
* The ABB FIA Formula E World Championship is the world's first FIA World Championship for electric vehicles and the only sport certified as carbon neutral.

► Broader Use of ZEVs

TMG subsidizes the purchase of ZEVs to promote their broader use. In addition to the sales of ZEV passenger cars, subsidy decisions have taken into account automobile manufacturers' green transformation (GX) efforts and the number of their vehicle models.

* V2B and V2H are abbreviations for Vehicle to Building and Vehicle to Home.

These pieces of equipment can supply electricity from storage batteries in ZEVs to buildings or homes, and are also available in emergencies.



Efficient use of automobiles

Under the Tokyo Vehicle Emission Reduction Program, TMG has mandated that businesses using 30 or more automobiles must submit a plan and results report on reduction targets for exhaust gases and efforts for the rationalized use of automobiles.

Under the Freight Transportation Evaluation System, TMG evaluates truck transportation businesses that promote eco-driving and other initiatives based on actual fuel efficiency to encourage their efforts to reduce CO₂ emissions.

► Development of Infrastructure to Support the Expansion of ZEVs

Improving the availability of EV chargers

In order to eliminate users' anxiety about insufficient charging opportunities, TMG is promoting the installation of EV chargers as social infrastructure.

We require new buildings with a certain minimum number of parking spaces to install chargers and other equipment from April 2025 onwards.

We are subsidizing installation costs at commercial facilities and other private facilities, and promoting installation in areas with parking meters and at TMG facilities such as metropolitan parks used by residents.

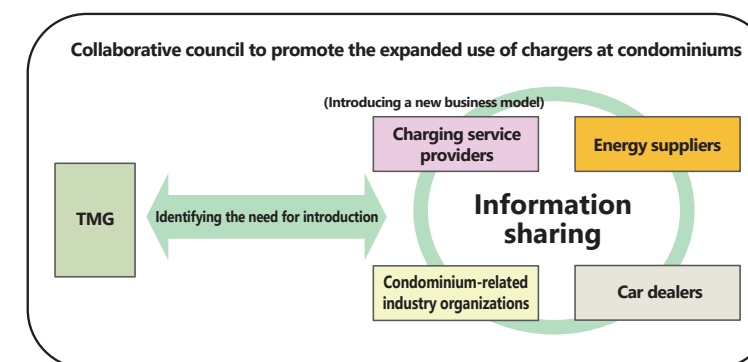


A charger installed along a public road in an area with parking meters

Promoting installation at apartment buildings

Installing chargers at apartment buildings is not as straightforward as it is at detached houses because a consensus needs to be formed among residents.

In addition to subsidizing the cost of installing chargers at condominiums, TMG is identifying the need for the introduction by sharing case examples, know-how, and challenges in collaboration with related organizations and businesses.



Wall-mounted outlet type



Stand type

► Promoting the Use of Bicycles

Since bicycles are a familiar and environmentally friendly means of transportation, we need to improve the safety, comfort, and convenience for bicycle users in conjunction with promoting the use of bicycles. Bicycle sharing is an effective mechanism for promoting the use of bicycles, and is now being developed in various parts of Tokyo. TMG supports the securing of sites for cycle ports and the initial investment made by municipalities, and collaborates with them to ensure the broader use of cycle ports.

Beginning in FY 2026, TMG officials have been permitted to use bicycle-sharing services as part of the official travel expense system.

Cycle port installation in Tokyo by bicycle-sharing service providers as of April 2026



A cycle port shared by multiple businesses

* Edoгава Ward also implements its own bicycle sharing.
* Docomo Bike Share bicycles in Akiruno City cannot be returned to ports in other municipalities.
* On the islands, Docomo Bike Share ports are available in Hachioji Town, Kozushima Village, and on Haha-jima in Ogasawara Village.

Expanding the Use of Hydrogen Energy

Hydrogen emits only water when used, helping reduce environmental load as well as contributing to a diversified energy mix. In particular, it is essential to promote the social implementation of Green Hydrogen, which produces no CO₂ emissions even during its production.

As hydrogen energy is expected to be used across a wide range of sectors, including transportation, power generation, and heat utilization, TMG is actively working to expand its adoption and establish a stable supply system by providing support through institutional, financial, and other strategic measures.

► Building the Foundation for the Use of Green Hydrogen

TMG holds the Tokyo Green Hydrogen Roundtable to discuss related issues with companies making advanced efforts. We will increase cases of utilizing Green Hydrogen in Tokyo, including the establishment of a certification system for Green Hydrogen leadership businesses, the installation of its production facilities in TMG-owned land, and collaboration with other local governments.

Promoting the installation of hydrogen stations

The key to making full use of hydrogen is to install hydrogen stations as these are a familiar energy supply infrastructure.

TMG subsidizes businesses that install and operate hydrogen stations and is committed to installing the first Green Hydrogen station in Tokyo.



Source: Tomoe Shokai Co., Ltd.
Green Hydrogen station (image)

Production and utilization of Tokyo-produced Green Hydrogen

To promote the wider adoption of Green Hydrogen, TMG opened the TMG Keihinjima Green Hydrogen Plant in FY 2025 and began producing Green Hydrogen in Tokyo.

The hydrogen produced there is being used in a wide range of applications, including mobility and as a raw material for cosmetics. Through these efforts, TMG aims not only to raise awareness of Green Hydrogen but also foster momentum for the production and use of green products.



TMG Keihinjima Green Hydrogen Plant

► Creating a Supply Chain through Strengthened International Collaboration

To further accelerate the implementation of hydrogen energy, TMG is working to launch a hydrogen exchange in collaboration with the H2Global Foundation, known as one of the world's leading hydrogen promotion organizations. Leveraging its expertise, TMG has been conducting trial transactions of Green Hydrogen since FY 2024.

We will work to create an international supply chain of Green Hydrogen by strengthening collaboration with overseas jurisdictions through agreements and other initiatives.



Ceremony for signing a collaboration agreement with the H2Global Foundation

► Deployment for Various Forms of Mobility

The use of hydrogen for commercial and industrial vehicles, which travel a long distance and require a lot of energy to power, is crucial for the decarbonization of the transport sector and expansion of hydrogen use.

In 2017, fuel cell buses were introduced into Tokyo metropolitan bus lines, becoming the first commercially available municipal fuel cell buses operated as route buses in Japan. Since then, more than 100 fuel cell buses, including those operated by private businesses, have been introduced in Tokyo.

In April 2023, small fuel cell trucks were introduced in Tokyo. TMG added fuel cell taxis to the subsidy list in 2025 and provides support for these buses, taxis, and trucks, including large vehicles.

For other commercial vehicles, such as fuel cell garbage trucks and fuel cell forklifts, support measures will be taken according to the needs of vehicle types and their development status to promote their introduction.



Small fuel cell truck



Fuel cell bus



Fuel cell taxi



Fuel cell garbage truck

Column Launch of the TOKYO H2 Project

In September 2025, TMG launched a new public-private partnership project, TOKYO H2, to accelerate actions using hydrogen in conjunction with the start of the massive introduction of FC taxis in Tokyo, the first of its kind in Japan.

Aiming to position Tokyo as a global leader in the social implementation of hydrogen, TMG, together with companies and organizations in the hydrogen sector, will promote a wide range of hydrogen-related initiatives.

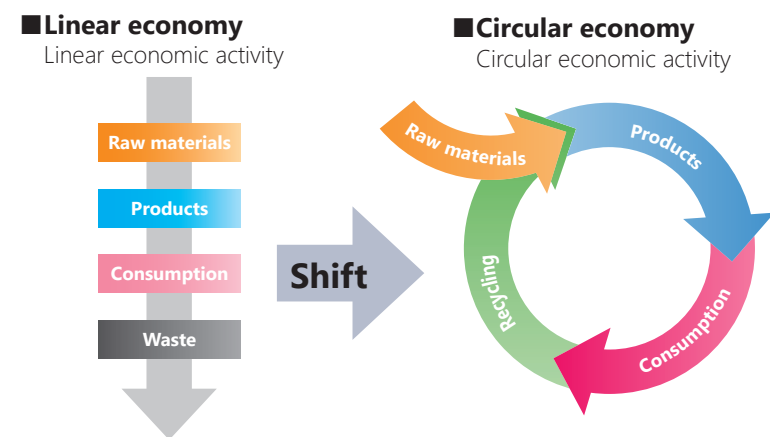


Promoting the Sustainable Use of Resources

► Shift to a Circular Economy

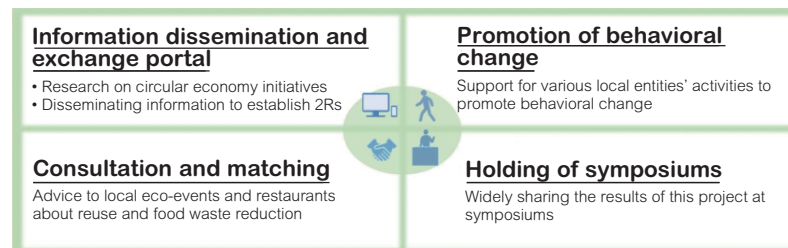
A linear economy of mass production, consumption, and disposal imposes a heavy environment load, as evidenced by climate change associated with increasing waste and CO₂ emissions, and entails a risk of resource depletion in the future. An estimate indicates that if all human beings live like people in Tokyo, they will need 3.1 Earths.

For Tokyo, which relies on other regions for resource supply and waste disposal, it is important to shift to a circular economy that reuses resources and reduces new inputs.



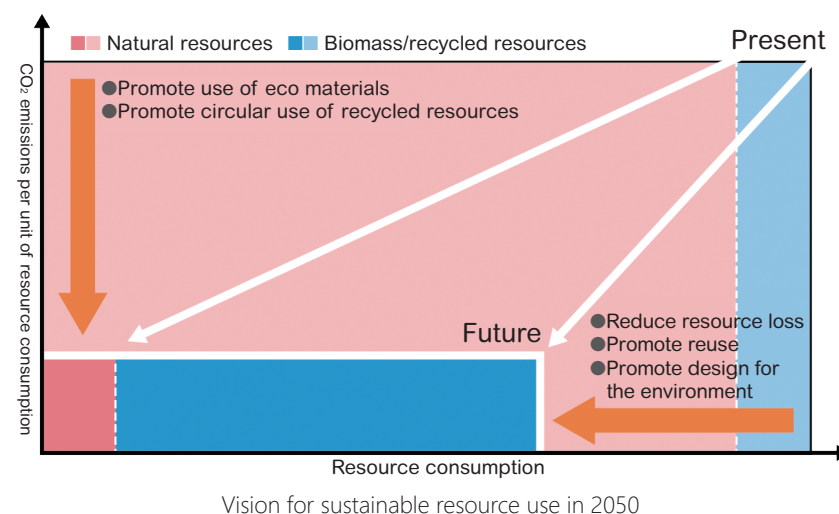
Promoting efforts in collaboration with the Tokyo Circular Economy Promotion Center (T-CEC)

In collaboration with the Tokyo Circular Economy Promotion Center established in the Tokyo Environmental Public Service Corporation, TMG contributes to the realization of a circular economy by disseminating information on the sustainable use of resources and supporting specific efforts.



Promoting advanced waste treatment and recycling

In order to promote decarbonization and ensure both the quality and quantity of recycled resources, TMG is providing subsidies for the introduction of advanced processing equipment such as metal and plastic crushing and sorting equipment as well as the creation of new businesses utilizing cutting-edge technology.



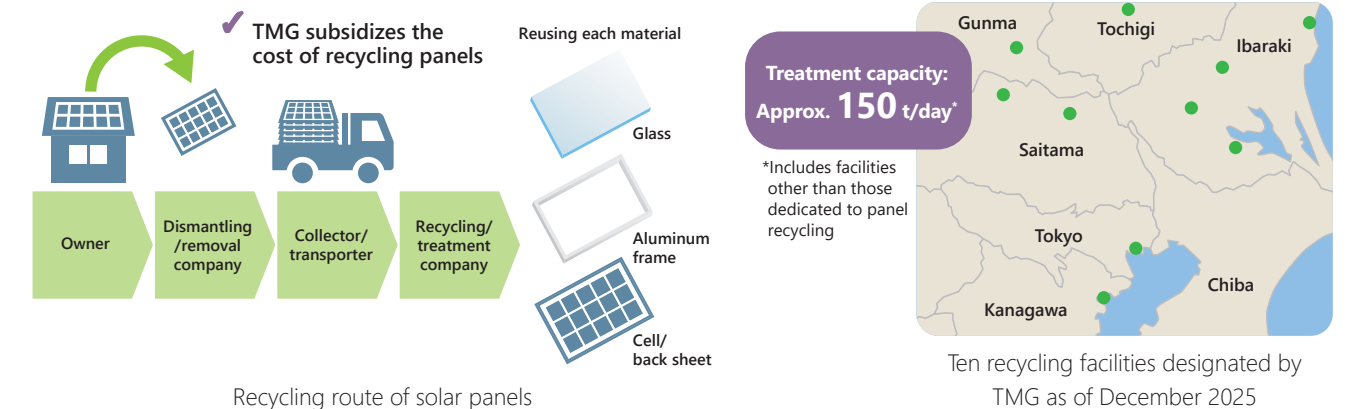
Promoting the advanced circular use of solar panels

To establish an efficient recycling system for residential solar panels, TMG provides subsidies to cover part of the recycling costs, as well as the costs of installing storage/transshipment facilities needed for efficient transportation to recycling sites.

We are also actively engaging in public outreach on solar panel recycling, while promoting advanced circular use of solar panels in collaboration with companies involved in all stages, from removal to final processing.



Video: Removing Used Residential Solar Panels



Promoting SAF made from used cooking oil and waste by unlocking Tokyo's "Urban Oilfield"

SAF* is produced from used cooking oil, sugarcane, and various other raw materials. It allows greenhouse gas emissions to be significantly reduced compared to conventional aviation fuels.

TMG is committed to promoting the production of SAF through joint projects with companies in Tokyo that collect used cooking oil for SAF manufacturing. We also support municipalities and collaborate with companies developing technologies to produce SAF from waste materials.

In addition to fostering momentum for the collection of used cooking oil, we subsidize businesses that use air cargo transportation with SAF for the additional costs caused by its use.

* Sustainable Aviation Fuel



Event to celebrate the start of the supply of domestic SAF to Tokyo International Airport (Haneda Airport)

Unlocking Tokyo's "Urban Mine" by strengthening measures for lithium-ion batteries and other resources

To promote the proper separation of lithium-ion batteries and the recovery of resources from Tokyo's urban mine, TMG is conducting collection campaigns in cooperation with municipalities, businesses, and other stakeholders and advancing recycling initiatives.

We also aim to implement a subsidy program to support the installation of equipment for detecting lithium-ion batteries mixed in with waste, as well as a broad-based model project in which batteries collected by municipalities will be bundled and sold as resources to recycling businesses.

TMG will also gradually roll out projects to promote the collection of mobile phones and personal computers that remain unused in households and businesses.

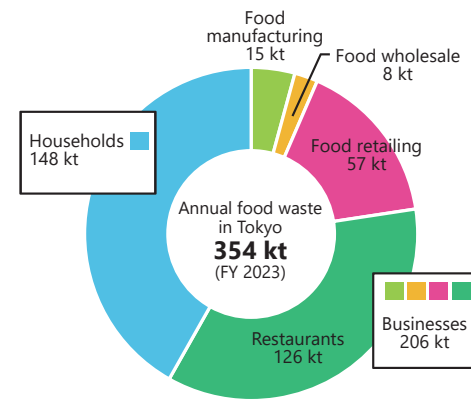


Tokyo Metropolitan Government Building Lithium-ion Battery Collection Campaign

► Measures for Food Waste

Food waste in Japan is approximately 4.64 million tonnes (2023), equivalent to about 1.3 times the amount of food aid provided by the United Nations in 2023, approximately 3.7 million tonnes.

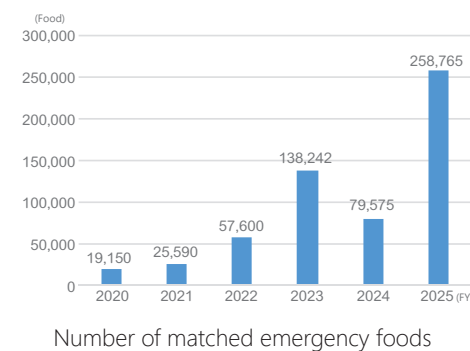
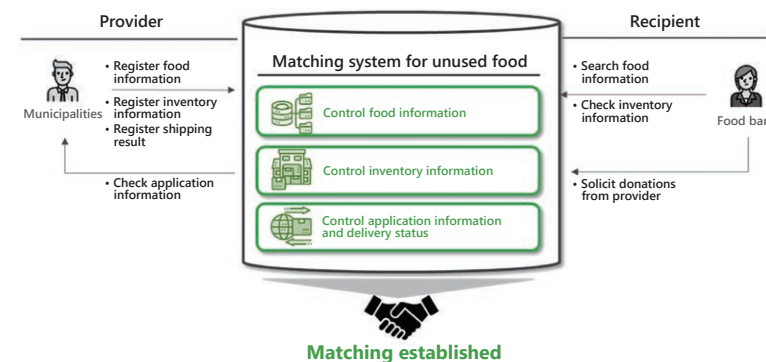
The quantity of edible but wasted food in Tokyo is approximately 350,000 tonnes per year (2023), and approximately 40% of that comes from households and 60% from businesses. TMG will strengthen its initiatives based on the Tokyo Food Loss and Waste Reduction and Food Recycling Promotion Plan, formulated in March 2026, to achieve its targets of reducing food waste by 60% by 2030 and by 65% by 2035, compared with FY 2000 levels.



* The total may not match the sum of the details due to rounding.

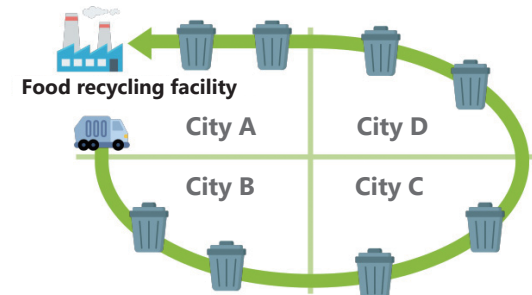
Establishing and expanding efforts for the effective use of unused food

TMG uses a matching system for unused food to donate emergency food stockpiled at municipalities and TMG to food banks and other organizations. While using the system more extensively, we will establish and expand a distribution model for mutual help by for example sharing information with municipalities and promoting the effective use of emergency food.



Promoting food waste reduction and food recycling at households

To reduce household food waste, TMG will evaluate the effectiveness of advanced technologies and services through surveys and other initiatives using consumer monitors. We will also provide hands-on support to municipalities in formulating and verifying plans for establishing cross-municipality collection routes to improve the efficiency of the separate collection of organic waste, thereby promoting food recycling.



Promoting food waste reduction in the restaurant industry

In order to reduce food waste in the restaurant industry, TMG will strengthen its initiatives by preparing guidance materials for restaurants on reducing food waste, holding seminars in collaboration with industry groups and local governments, and running a "Zero Plate Waste" campaign at restaurants in Tokyo.

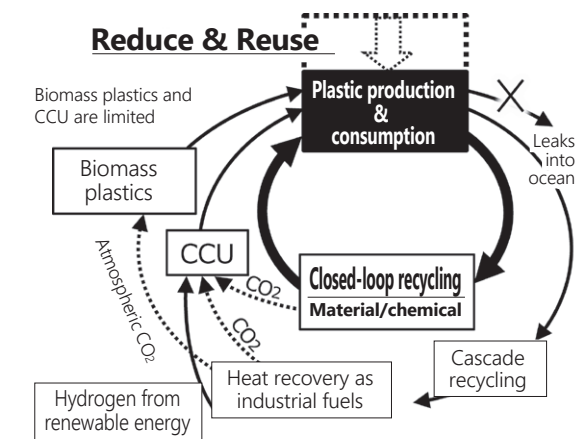


► Measures for Plastics

New ways of using plastics

While plastics have excellent properties, they affect climate change and biodiversity loss throughout all stages from production to disposal.

TMG will realize a "carbon closed cycle," which represents the sustainable use of plastics with net zero CO₂ emissions, by mainstreaming 2R businesses, including selling by weight, sharing, and reusable containers, and implementing closed-loop recycling.



Concept of carbon closed cycle

Expanding innovation in collaboration with businesses

TMG is supporting and working with private companies committed to expanding game-changing reuse business models and closed-loop recycling technologies.



Examples of initiatives: Circloop:
Reusable container service for offices and coworking spaces

Projects to support recycling of plastic containers and packaging

To help recycle plastic containers and packaging and plastic products from households, TMG provides financial support for efforts by municipalities to promote the separate collection of plastics.

Column

SAF x World Athletics Championships Tokyo 25 – Household Oil Collection Campaign

In collaboration with the foundation for the World Athletics Championships Tokyo 25, TMG conducted a campaign to collect used cooking oil from households and other sources, which can be used to produce sustainable aviation fuel (SAF). Through the campaign, we collected approximately 11,300 liters of used cooking oil—equivalent to the amount needed for a flight from Haneda to New York. We will continue working with municipalities and businesses to increase the amount of used cooking oil collected by expanding collection points and strengthening public outreach.



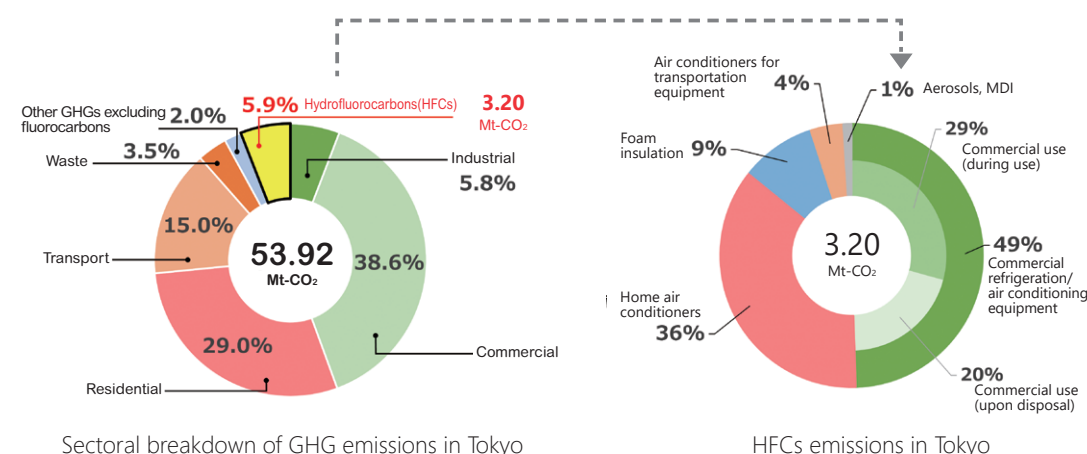
Bringing used cooking oil to a collection point



Efforts toward Zero Hydrofluorocarbon Emissions

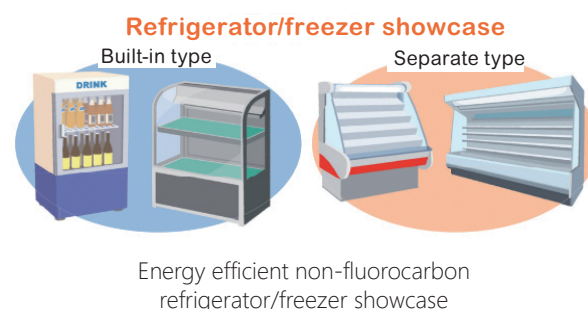
The amount of hydrofluorocarbons (HFCs) emissions in Tokyo in FY 2024 was 3.20 million-tonne CO₂, accounting for approximately 6% of its greenhouse gas emissions. Fluorocarbons have an extremely strong greenhouse effect and cannot be recovered once released into the air.

Therefore, TMG will curb the use of new fluorocarbons and eliminate leakage from equipment containing fluorocarbons. To achieve zero fluorocarbon emissions, TMG will promote emission reduction measures throughout the life cycle of equipment, from manufacture, use, through to disposal, in cooperation with the national government and businesses.



Promoting the Spread of Non-Fluorocarbon Equipment

To reduce fluorocarbon emissions, it is also important to promote the use of equipment that does not use fluorocarbons as refrigerants. TMG subsidizes large companies, small and medium-sized businesses, and other organizations that introduce energy efficient non-fluorocarbon equipment.



Efforts to Reduce and Control Fluorocarbon Emissions

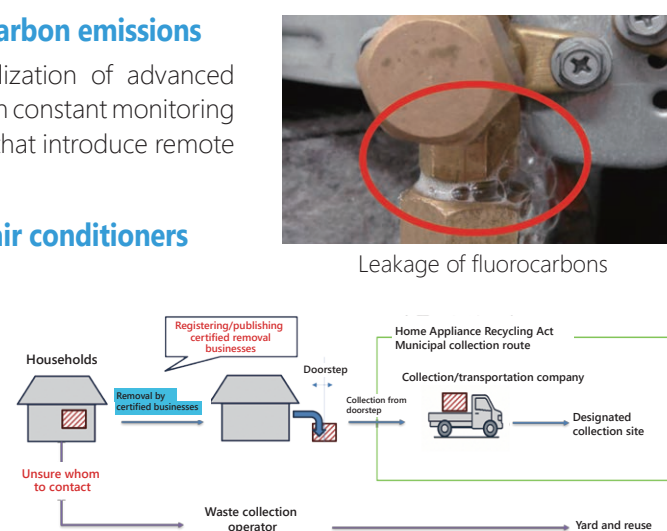
Utilizing advanced technology to reduce fluorocarbon emissions

Reducing leakage during use requires the active utilization of advanced technology, such as the early detection of leakage through constant monitoring using AI and IoT. TMG provides subsidies to businesses that introduce remote monitoring technologies based on AI and IoT.

Controlling fluorocarbon emissions from home air conditioners

Fluorocarbon emissions from home air conditioners have been increasing year by year, but the lifecycle of these units—from use to disposal—is not clear. Although home air conditioners are also used by businesses, they are not subject to the Act on Rational Use and Appropriate Management of Fluorocarbons.

TMG will investigate fluorocarbon emissions from home air conditioners, systematically analyze the findings, and comprehensively promote the necessary measures.



Promoting Climate Change Adaptation Measures

In recent years, climate change has intensified the impacts of floods and storms and contributed to extreme heat, underscoring the need for further action.

Measures to address climate change include mitigation, which reduces greenhouse gas emissions, and adaptation, which addresses the impacts of climate change and minimizes associated damage. Adaptation is essential to avoid and reduce damage due to climate change.

TMG has formulated the Tokyo Climate Change Adaptation Plan, which sets out adaptation measures in such areas as natural disasters, human health, and agriculture, forestry, and fisheries. For the policies set out in the plan and new policies, we present the initiatives for the three-year period beginning in FY 2026 in the Tokyo Climate Change Adaptation Plan - Action Plan.



Heat Stroke Prevention

TMG implements heat countermeasures to protect the lives and well-being of Tokyo residents.

TMG has strengthened heat stroke prevention actions, holding seminars to encourage the adoption of heat countermeasures, including heat acclimatization, supporting municipalities in designating cooling shelters, and implementing comprehensive measures and projects for industry groups such as those for essential workers.

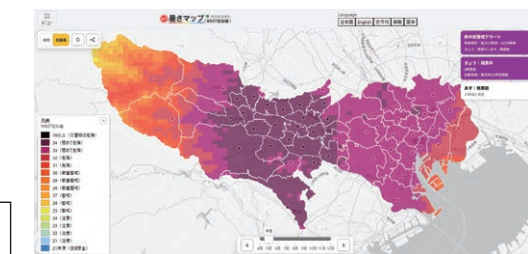


Tokyo Heat Acclimatization Seminar (Heat Countermeasures Starter Course)

Tokyo Heat Stroke Prevention Portal Site and Tokyo Heat Map



Tokyo Heat Stroke Prevention Portal Site to disseminate information



Providing detailed heat information through the Tokyo Heat Map



Column Tokyo Heat Protection Products Contest

TMG held the Heat Protection Products Contest to promote a shift toward lifestyles adapted to extreme heat. Approximately 30,000 Tokyo residents took part in a public vote to select their favorite products from 12 finalists shortlisted by a panel of experts.

Through this initiative, TMG aims to create a society in which Tokyo residents can live safely and comfortably even in extreme heat, while encouraging behavior change among them.

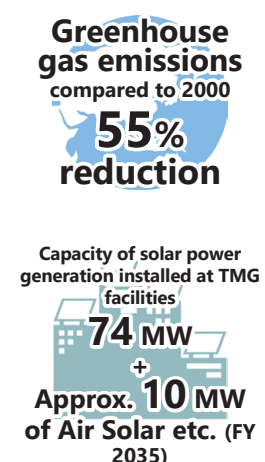


Bold Acceleration of TMG's Initiatives for Its Own Sustainability



As a major consumer of energy and resources, TMG—guided by the slogan “Let’s Start from Here”—has formulated the Zero Emission TMG Action Plan. Toward FY 2030, TMG will promote proactive action across the entire government to achieve its ambitious target of halving GHG emissions (Carbon Half).

[Main FY 2030 targets]



Replacing all TMG-owned passenger cars with ZEVs
 * Excluding special-purpose vehicles

Bottle-to-bottle recycling at all facilities in principle

Recycling of all food loss and waste from TMG buildings and other facilities

Calculated fluorocarbon leakage compared to FY 2015
65% reduction

TMG is committed to switching all electricity used at its facilities, including the offices of the Governor’s bureaus and departments, to 100% renewable electricity. To achieve this, TMG is implementing the TMG Power Plan, which utilizes 100% renewable electricity generated by solar power systems installed at Tokyo public housing and other facilities, while also promoting energy management that enables electricity to be shared among facilities.

TMG is working to install solar power generation equipment at all of its applicable facilities. We aim to introduce additional Air Solar and other equipment.

TMG works to ensure the replacement of its vehicles with ZEVs at the time of renewal in principle and enhance charging infrastructure by installing public chargers at its facilities.

As bottle-to-bottle recycling and the material recycling of plastic waste are conducted at its buildings, TMG aims to implement bottle-to-bottle recycling at all facilities in principle and establish material recycling routes by FY 2030.

We are also promoting the use of reusable cups in a push manner to introduce more of them at events hosted by TMG.

TMG is strengthening efforts to curb food waste generated from dining halls and shops within its facilities, as well as at events. In addition, we aim to recycle all food loss and waste from the TMG Buildings.

We will promote the switch to non-fluorocarbon and low-GWP equipment and proper equipment control at TMG facilities and steadily reduce fluorocarbon emissions from the TMG Buildings.



Air Solar installed on the pillars at a port facility



TMG-owned ZEV with solar panels



Encouraging portion size selection at an officials' dining hall to help prevent leftovers



Accelerating Environmentally Friendly Behavior in Cooperation with All Actors

▶ Developing and Supporting Next-Generation of Leaders

To cultivate the talent needed to support a decarbonized society, TMG provides environmental education programs and learning opportunities that encourage behavioral change. We also foster and support industry professionals who will take the lead in advancing green jobs.

Environmental education workshop for elementary school teachers



Holding workshops where participants can learn practical environmental learning programs in line with school subject

Project to support improvements in design and construction techniques



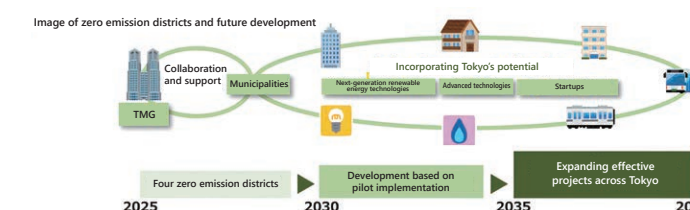
Providing support for efforts that help improve the design and construction techniques for houses with high environmental performance

▶ Collaboration with Municipalities

TMG takes the lead in decarbonization throughout Tokyo by providing support tailored to the actual situation of local governments, such as financial support for municipalities working on local decarbonization.

To create its own zero emission districts, TMG launched a project to subsidize broad-based decarbonization and selected Chiyoda and Edogawa Wards in FY 2025.

We will decisively promote decarbonization as an all-Tokyo effort by building even stronger partnerships.



▶ International Contribution and Exchange

As one of the world’s leading metropolitan cities, TMG participates in international intercity network activities and international conferences organized by C40^{*1} and ICLEI^{*2} to strengthen its global presence.

By hosting international events such as TIME TO ACT and HENCA Tokyo, and leveraging its connections with jurisdictions worldwide, TMG shares information about its pioneering initiatives and reinforces its role as a global leader.

*1 C40 Cities Climate Leadership Group *2 Local Governments for Sustainability

COP30



TIME TO ACT 2025

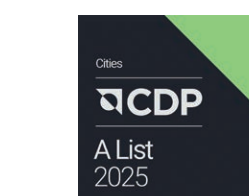


Strategically developing the Tokyo-based climate action movement, TIME TO ACT

HENCA Tokyo 2025



Promoting the early social implementation of hydrogen energy



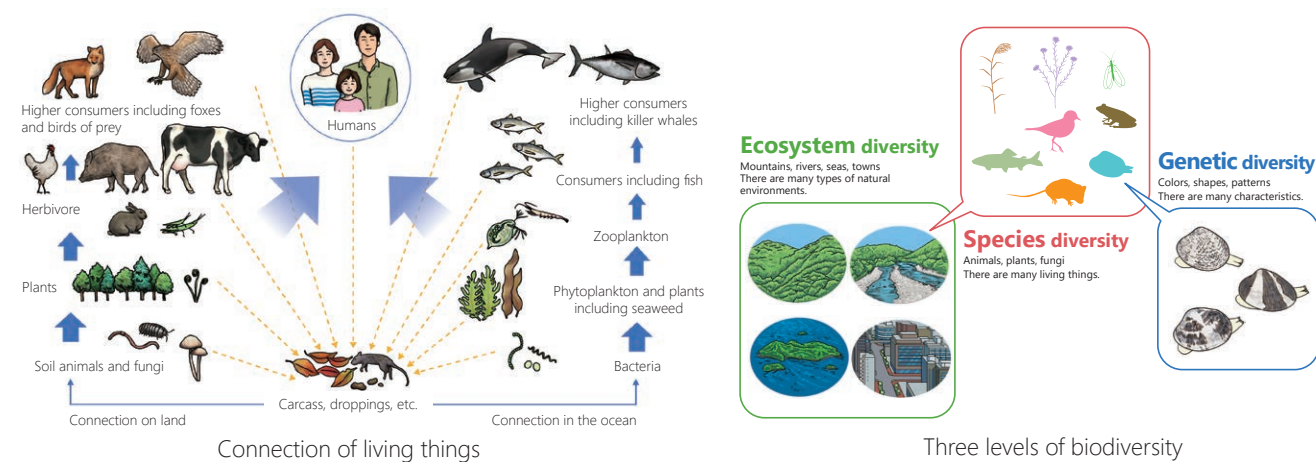
Winning CDP's "A List" for cities (highest rating)—which recognizes climate action and disclosure—for the fifth consecutive year (2021–2025)



Realization of an Environmentally Symbiotic, Prosperous Society that Continues to Benefit from Biodiversity

► What is Biodiversity?

The term “biodiversity” refers to a situation where a variety of creatures with unique characteristics are able to coexist in harmony directly and indirectly, taking advantage of each other’s characteristics in a variety of different environments. Biodiversity is said to cover three levels of diversity: Many types of living things, a variety of environments, and different genes even within the same type of a living thing.



Benefits of biodiversity (ecosystem services)

Biodiversity is something irreplaceable created over long periods through a variety of lifeforms, including human beings. Benefits of biodiversity, called ecosystem services, are essential to our lives. In order to make the sustainable use of the benefits of biodiversity, we need to promote the conservation and restoration of biodiversity.



Four ecosystem services

► Tokyo Local Biodiversity Strategy

TMG revised and published the Tokyo Local Biodiversity Strategy in April 2023.

We have set achieving nature positivity as one of the 2030 Targets, which means putting biodiversity on track to restoration by helping all entities that aim for an environmentally symbiotic, prosperous society work together to promote the conservation and sustainable use of biodiversity. It presents basic strategies and action plans for various entities to proceed with their efforts in order to achieve this goal.



Three basic strategies in the Tokyo Local Biodiversity Strategy

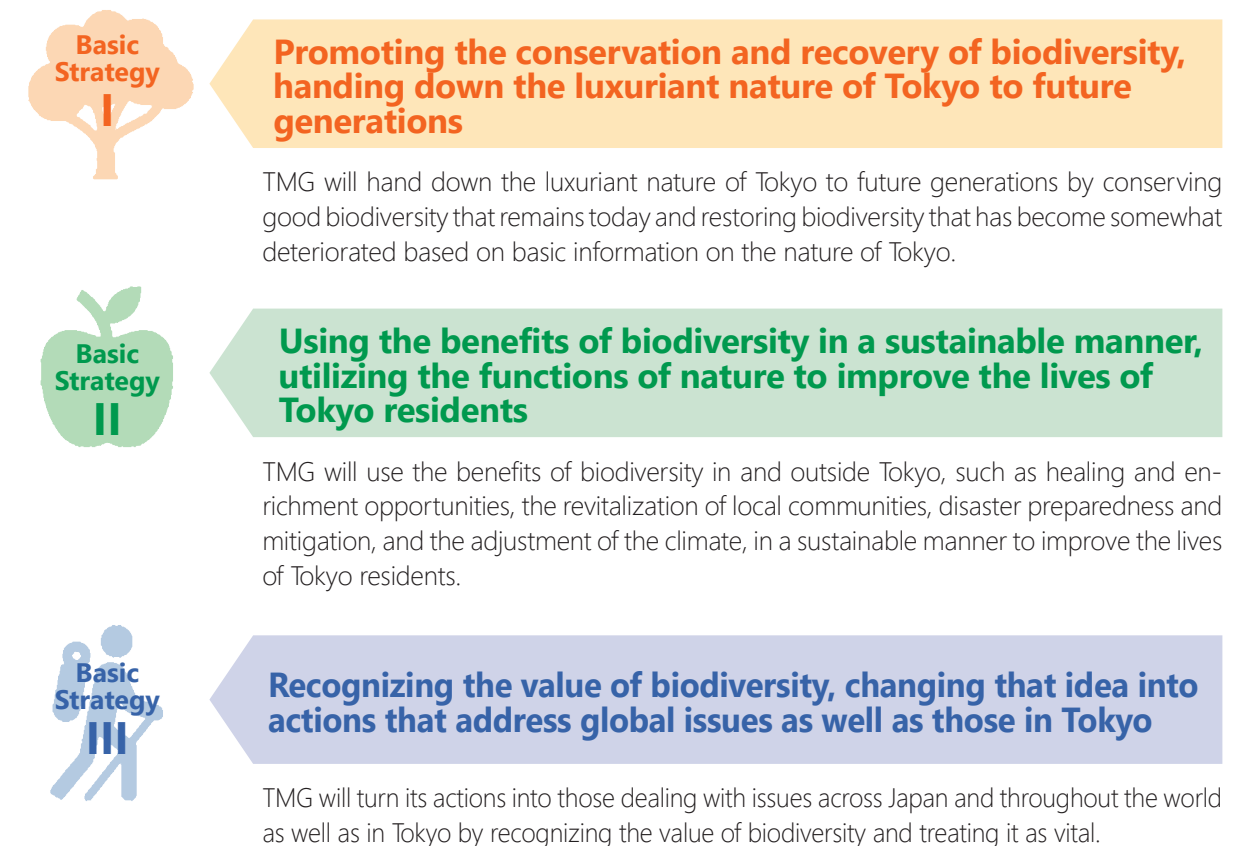
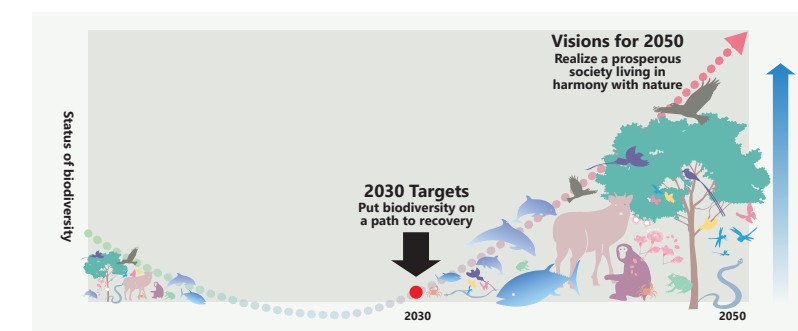


Image of achieving nature positivity



Nature positivity means halting and reversing biodiversity loss to halt nature loss and put it on the path to recovery by 2030, measured from a baseline of 2020.

TMG will formulate the Tokyo Local Biodiversity Strategic Action Plan every fiscal year to summarize its biodiversity initiatives and to strengthen and promote efforts toward achieving nature positivity, incorporating new measures as needed.



Tokyo Local Biodiversity Strategic Action Plan 2026

Promoting the conservation and recovery of biodiversity, handing down the luxuriant nature of Tokyo to future generations

► Preserving Areas with Rich Natural Environments

Conservation Area System

To conserve the valuable natural environments in Tokyo, including satoyama (open light-filled woodland near populated areas) in hilly terrains, we promote the designation of conservation areas for their preservation and restoration.

There are 53 conservation areas of approximately 776 hectares in Tokyo. TMG aims to expand the area of designated and publicly-owned conservation areas to approximately 1,000 hectares by 2050. To achieve this goal, TMG will systematically survey the natural environment, demonstrate the benefits of green spaces, and promote understanding among landowners, local residents, Tokyo residents, and other stakeholders. Through these efforts, TMG will encourage the designation and public acquisition of new conservation areas.

Types of conservation areas:



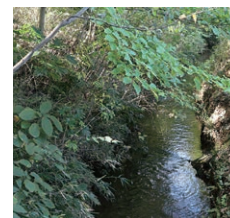
Natural environment conservation area



Forest environment conservation area



Satoyama conservation area



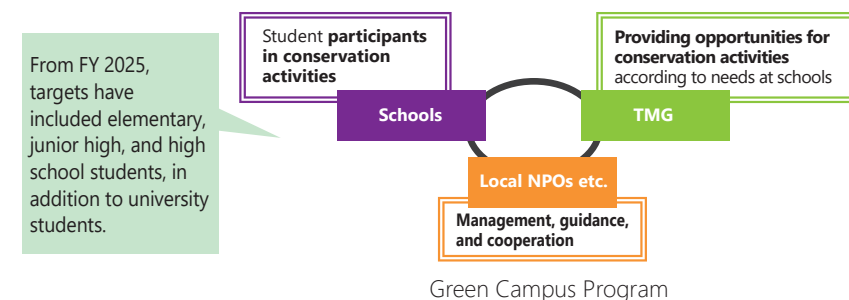
Historical environment conservation area



Green space conservation area

Conserving precious nature together with Tokyo residents

In conservation areas, local volunteer groups play a central role in green space conservation activities, such as cutting undergrowth and thinning trees. To foster leaders in the conservation activities, TMG has set a goal of increasing the number of participants in hands-on nature activities to 58,000 in total by FY 2030. In order to further promote preservation in conservation areas in collaboration with various entities, we are implementing initiatives such as experience-based programs in which even beginners can easily participate, the Tokyo Green Campus Program for students, and the Tokyo Greenship Action for companies.



Rice planting in a satoyama conservation area

Promoting efforts in collaboration with the Tokyo Metropolitan Center for Biodiversity

In FY 2024, the Tokyo Metropolitan Center for Biodiversity was established as a hub for collaboration and information dissemination among various entities involved in conservation activities in Tokyo.

TMG is committed to strengthening efforts to disseminate information on biodiversity and maintain and improve the quality of conservation areas by creating a comprehensive biodiversity portal site that brings together information on the natural environment and makes it widely accessible to Tokyo residents, businesses, and other stakeholders.

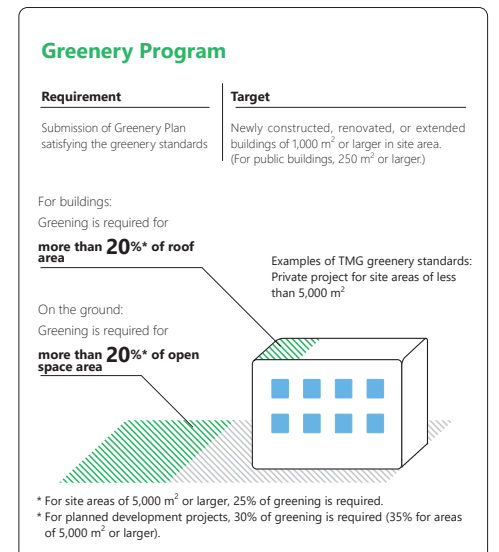


Comprehensive portal site

► Conservation and Creation of Greenery in Urban Districts

The green rate for 2023 announced by TMG is 52.1% for the entire mainland, showing a downward trend. In accordance with the Greenery Program, TMG has been creating greenery in parallel with urban development.

TMG operates the “EDO-MIDORI” registration system for green spaces with a significant proportion of native species. These registered green spaces are awarded special logos and are prominently highlighted on the TMG website.



► Conservation of Rare Wild Fauna and Flora, and Measures for Alien Species

In Tokyo, as many as 1,846 species on the mainland and 1,244 species on the islands have been selected in the Wildlife Species in Serious Need of Conservation in Tokyo (Tokyo Red List), of which 209 species on the mainland and 51 species on the islands have already become extinct.

Based on the Strategic Conservation Policy for Wildlife Species in Serious Need of Conservation formulated in March 2025 to prevent the further extinction of rare creatures in Tokyo, TMG will encourage conservation that focuses on the species and ecosystems of wildlife in serious need of conservation and support the promotion of measures for alien species.



Red Data Book (Mainland) Digest Version

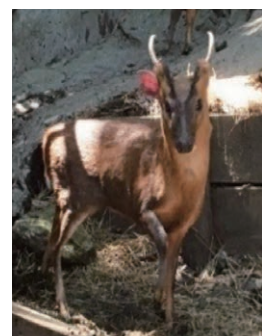


Strategic Conservation Policy Standard Version

Promoting active pest control of alien species

In recent years, various alien species brought in from home and abroad have significantly impacted native species. TMG is working to mitigate the damage caused by these alien species, such as raccoons and red-eared slider turtles, which pose a substantial threat to Tokyo's ecosystem.

As a measure to control Reeves' muntjacs on Izu Oshima Island, TMG will conduct capture operations and promote efforts to eradicate the species under a pest control plan. For example, in FY 2025, TMG introduced a bounty program for captured Reeves' muntjacs and launched an app for reporting sightings.



Reeves' muntjac on Oshima Island



Raccoon
Source: Ministry of the Environment



Red-eared slider turtle
Source: Ministry of the Environment



Reeves' Muntjac Capture Bounty Program

Measures against Asian black bears

In recent years, the population and range of Asian black bears have increased, making it increasingly important to reduce conflicts between people and bears. TMG is working to separate human living areas from bear habitats by closely monitoring bear activity and establishing buffer zones. To help ensure the safety of Tokyo residents, TMG publishes the TOKYO Kumap, which provides information on bear sightings within the city, dispatches hunters when bears appear in urban areas, and trains new personnel to capture bears.



TOKYO Kumap



Asian black bear photographed by a sensor camera

Collection, Storage, Analysis, and Dissemination of Natural Environment Information

Collecting information on living things with Tokyo residents

Since comprehensive information is essential for building a foundation to conserve and restore biodiversity in Tokyo, the power of citizen science plays a crucial role. To that end, TMG has developed AI-based apps for wildlife surveys, enabling Tokyo residents to easily participate in collecting and accumulating data on local species.



Participatory app for collecting information on living things (Biome)

Creation of the TOKYO Digital Wildlife Inventory

The TOKYO Digital Wildlife Inventory is a web-based system supervised by experts that integrates citizen science data with information from specimens and literature. It allows anyone to easily search for what species lived where and when in Tokyo.

A dragonfly inventory was published in 2024, and then in May 2025 was followed by spider and cicada inventories along with information on some plant specimens. Information will be updated whenever necessary.



Natural Environment Digital Museum

TMG is exploring the opening of a Natural Environment Digital Museum. This initiative aims to aggregate comprehensive biodiversity information from across Tokyo and use digital technology to highlight the city's natural beauty.

In addition, we have already published digital content, such as "Tokyo Nature Scope" and "Tama River 360° Tour," to help residents learn about Tokyo's living things and nature and encourage actions to preserve them.



[Tentative name] Master Plan for Tokyo Natural Environment Digital Museum (as of April 2025)



"Digital View of Living Things in Tokyo" Touring Exhibition (from January to February 2026) at the Science Museum



Using the benefits of biodiversity in a sustainable manner, utilizing the functions of nature to improve the lives of Tokyo residents

Promotion of Tokyo-NbS Action

The idea of using the functions of nature in a sustainable manner to solve various social issues is called "Nature-based Solutions" or NbS.

To use the benefits of biodiversity in a sustainable manner and utilize the functions of nature to improve the quality of life of Tokyo residents, TMG is recruiting Tokyo-NbS Action Members who will be involved in NbS in Tokyo.

In FY 2024, TMG established the Tokyo-NbS Action Awards to recognize businesses and other organizations that are pioneering NbS initiatives, and held an awards ceremony and networking event, promoting the widespread adoption of NbS.



Tokyo-NbS Action



Second Tokyo-NbS Action Awards Ceremony

Ogasawara Islands: A Natural World Heritage Site

Consisting of over 30 islands, the Ogasawara Islands are located in the North West Pacific 1,000 km south of Tokyo, where dolphins and whales inhabit a beautiful blue ocean.

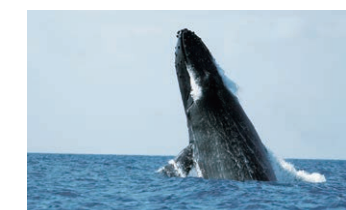
Geological features on the island show the evolutionary process of oceanic island arcs. These islands have never been part of any continent, and so the living creatures able to reach the islands over the sea could survive only by adapting to the environment.

The Ogasawara Islands were evaluated as an area with a precious ecosystem and registered as a natural World Heritage site in June 2011 as they reveal the evolution of and connection between living things not seen in any other areas.

To protect the value of the World Heritage site, we are removing influential alien species while conserving decreasing endemic species. We are also developing ecotourism to help protect and properly use valuable natural resources and are striving to prevent the entry of new alien species.



Minamijima and Chichijima Islands, Ogasawara Islands



Humpback whale



Bonin Islands honeyeater (vulnerable species)



Chloris sinica kittitzi (endangered class IA on the islands)



View of ecotourism on Minamijima Island



Preventing alien species from entering the islands through shoes

► Natural Parks

Meiji no Mori Takao Quasi-National Park

It only takes approximately 50 minutes to get from the center of Tokyo to Meiji no Mori Takao Quasi-National Park. Awarded three stars in the Michelin Green Guide, Mt. Takao is the property of the Head Temple Takao-san Yakuo-in that has historical and cultural features as well as magnificent landscapes. It also offers an ecosystem of abundant nature despite its proximity to central Tokyo, well deserving its world famous reputation.

TMG strives to ensure the safe and secure use of the natural park by for example using 360-degree camera images to show information on the seven mountain trails (routes) from the foot of Mt. Takao to the summit.



Top page

Route selection

Mountain trail information

Route guidance

Route description through AR



Natural parks with various features

Tokyo is home to three national parks, one quasi-national park, and six Tokyo Metropolitan natural parks. TMG deploys Tokyo Rangers to promote the protection and appropriate use and management of nature in the natural parks.

In addition, TMG has set up visitor centers that exhibit information on nature around natural parks and provide guidance on how to use them, Tomin-no-Mori facilities for recreational activities to become familiar with nature, and scenic seaside and mountain villages with accommodation facilities.



Fuji-Hakone Izu National Park characterized by different landscapes on each island (Kanbiki Observatory on Shikinejima Island)



Maintenance of a mountain trail by Tokyo Rangers

Recognizing the value of biodiversity, changing that idea into actions that address global issues as well as those in Tokyo

► Promotion of Understanding of Biodiversity

A survey in FY 2025 showed that the percentage of Tokyo residents recognizing biodiversity is 75% and that of Tokyo residents taking actions that consider or contribute to biodiversity is 89%.

To conserve and restore biodiversity and use its benefits in a sustainable manner, Tokyo residents and other actors have to correctly recognize the mechanism, value, and status quo of biodiversity in Tokyo, and deepen their understanding and interest in it.

TMG is working to raise more awareness of biodiversity to enable each and every Tokyo resident to recognize the value of biodiversity and treat it as vital.

Promoting nature experience activities

TMG is actively raising awareness of places and events in Tokyo where people can enjoy observing living things and experiencing nature. Using facilities where people can learn about various natural land and biodiversity in Tokyo, TMG is encouraging natural environment education and nature experience activities.



Observing living things at Takao Forest Nature School



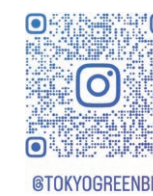
Participatory program in Akigawa Valley to learn about Tokyo's diverse nature

Column Promoting "Tokyo Green Biz"

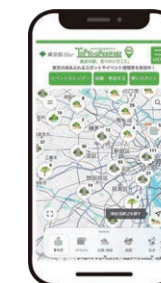
To preserve and pass on greenery for future generations in collaboration with Tokyo residents, businesses, and other stakeholders, TMG is promoting Tokyo Green Biz, a long-term greening project with a 100-year vision.

As part of the project, we are promoting a range of initiatives, including conserving agricultural lands and homestead woodlands, publishing the Tokyo Green Biz Map which highlights green spaces across Tokyo, providing opportunities for residents to grow plants at home, and introducing green infrastructure.

Our goal is to transform Tokyo into a sustainable city that coexists with nature. We will achieve this through initiatives to "protect," "nurture," and "utilize" Tokyo's greenery.



Official Instagram



Tokyo Green Biz Map



TMG Greenery Initiatives version 3

Further Improving Air Quality Etc.

A period of high economic growth in Tokyo after World War II saw rapid industrialization and a surge in automobile ownership, causing severe environmental issues and threatening the health and welfare of its residents.

TMG has implemented a range of pioneering environmental measures and remains committed to addressing environmental challenges. We will not only work to preserve the improved living conditions achieved to date, but also advance new initiatives to create a higher quality environment, one in which all Tokyo residents can enjoy an enhanced quality of life with peace of mind.

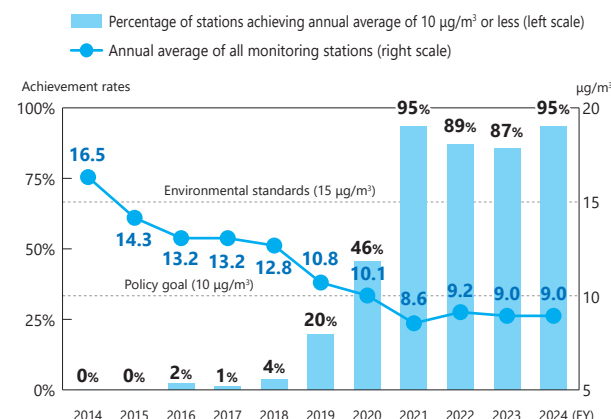
■ Iwaidabashi Intersection, Chiyoda Ward



▶ Achieving Environmental Standards for PM2.5 and Photochemical Oxidants

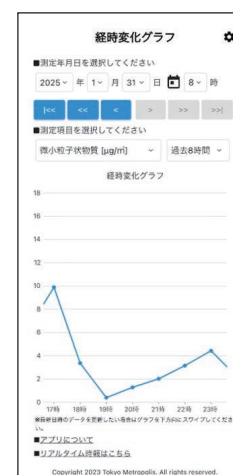
As the concentration of PM2.5 and photochemical oxidants has to be lowered, TMG is working on measures to reduce emissions of the causative agents, including volatile organic compounds (VOCs) and nitrogen oxide (NOx).

For PM2.5, TMG will build on the existing measures for further improvements, aiming to reduce the annual average at each monitoring station to 10 $\mu\text{g}/\text{m}^3$ or less by FY 2026 and ensure that the value is consistently maintained in and after FY 2030.



Smartphone app "Tokyo Air Quality Information"

To make it easier for everyone to understand information about air quality, which changes depending on time and location, TMG has distributed a smartphone app called "Tokyo Air Quality Information," which allows users to see at a glance the air concentration of fine particulate matter (PM2.5) and photochemical oxidants in their locations.

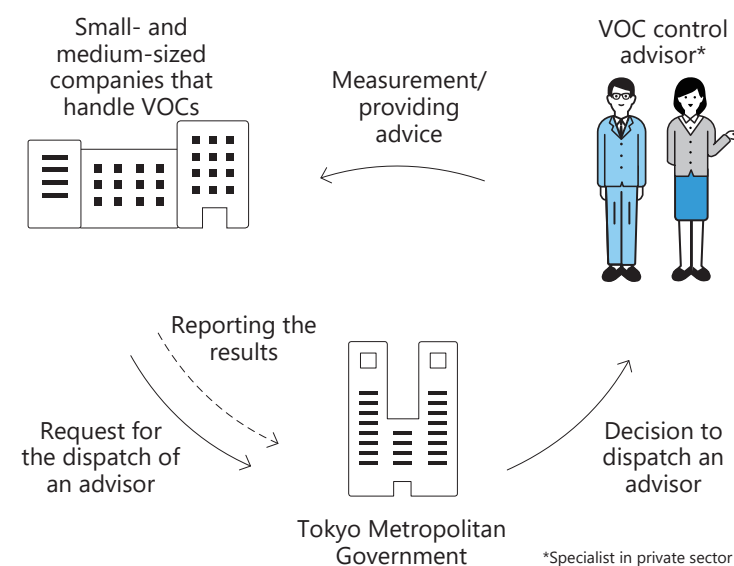


Graph of changes in PM2.5 concentration over time shown on the app

▶ Efforts for Comfortable Air Quality

VOC Control Advisor Dispatching Program

Advisors are dispatched to factories that use VOCs.



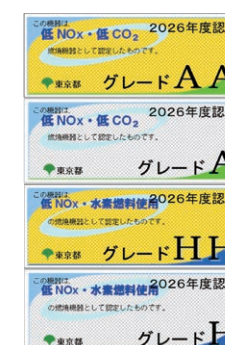
Guide for Reducing VOC Emissions

Guidebooks are distributed to VOC emitting businesses for emissions control.



Certification labels for small combustion devices with good environmental performance

A label of a specific grade is attached to a certified device.



▶ Air Environment Improvement Promotion Project to Realize a Clear Sky

By recruiting businesses that work on NOx or VOC emission reduction measures as Clear Sky Supporters and making their efforts public, TMG encourages emissions reductions through voluntary efforts. We also raise awareness of the situation and provide information to Tokyo residents by holding participatory events via SNS.



▶ Measures for Asbestos

There are still many buildings containing asbestos in Tokyo, and the number of buildings demolished is expected to remain at a high level until around 2050. Therefore, TMG will enhance measures taken at the stage of demolition in normal times as well as strengthening other measures to prevent dispersion from collapsed buildings in the event of a disaster.

To ensure that legal requirements and best practices for asbestos control are firmly understood and applied, we provide dismantlers with relevant information, on-site guidance, and technical support.

We also provide VR-based training to municipal officials to further improve their technical knowledge and leadership skills.



On-site guidance on asbestos

Reducing Risks Caused by Chemical Substances Etc.

Measures for Chemical Substances

TMG ensures that businesses handling chemical substances properly control them through the PRTR program and the chemical substance control program as well as by creating a chemical substance database. In addition, we prevent leakage and outflows of chemical substances caused by flooding at the time of large earthquakes or typhoons to curb the spread of environmental pollution.

TMG monitors substances with a risk of adverse health effects, publishes the resulting data in a timely manner, and organizes the data into a database so that Tokyo residents and businesses can avoid such risks.

Regarding organic fluorine compounds like PFOS, we have proactively examined their concentrations in groundwater throughout Tokyo ahead of the national government. Additionally, we have continued monitoring at locations with concentrations exceeding guideline values and prohibited the consumption of groundwater from such locations.



View of air monitoring

Measures for Soil Pollution

TMG will establish measures for soil pollution that consider the 3Rs of soil, and provide support for businesses and raise their awareness so that they can voluntarily compare and consider these measures to choose a rational option.

Through the open data methodology, we will ensure smooth land use, control land with non-conforming soil, identify the actual state of naturally contaminated soil, and keep traceability in place.

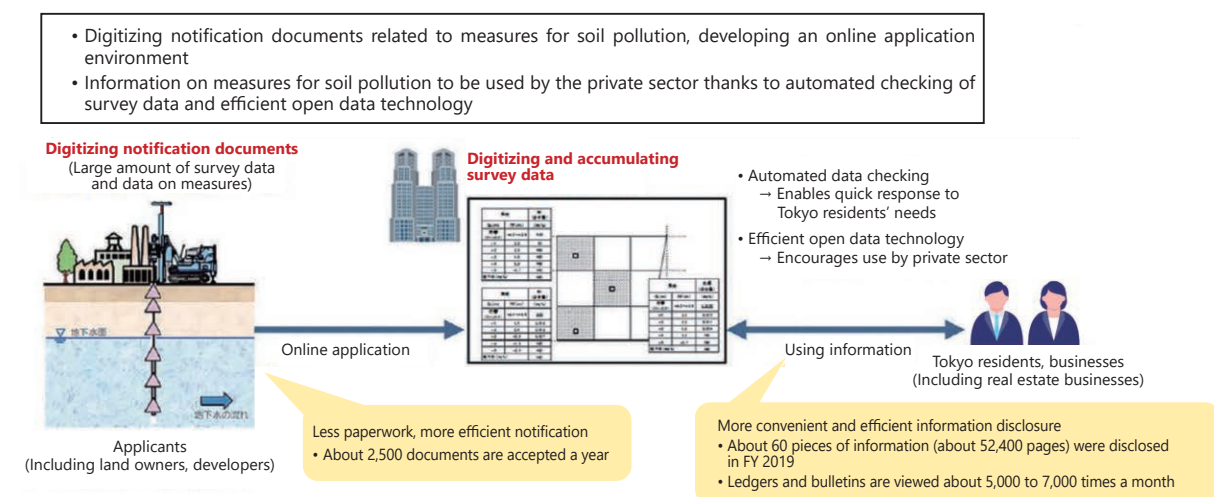
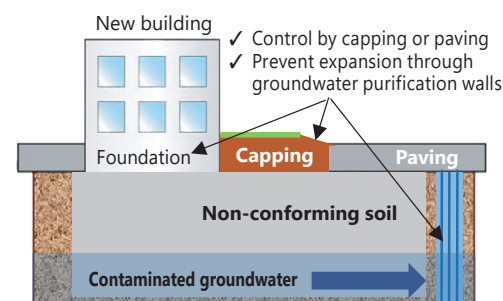


Image of open data

Supporting sustainable soil pollution countermeasures at former factory sites

To encourage the adoption of new business practices and development of countermeasure technologies, TMG subsidizes entities that start new ventures at places like former factory sites of small and medium-sized businesses. The subsidies cover costs for:

- ✓ Capping contaminated soil
- ✓ Measures to prevent the spread of contaminated groundwater

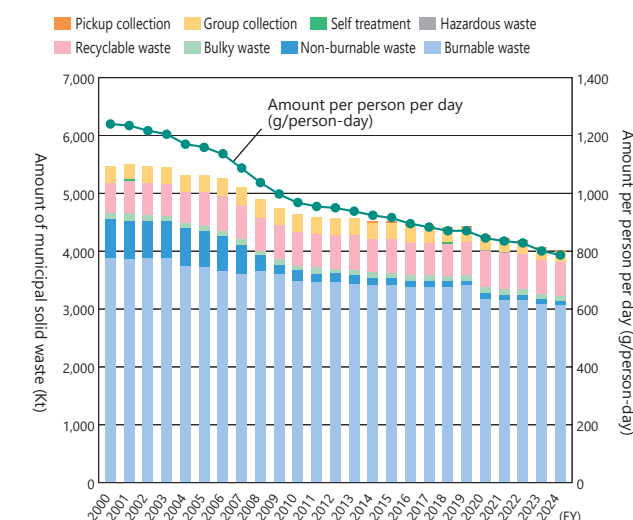


Further Promoting the Proper Treatment of Waste

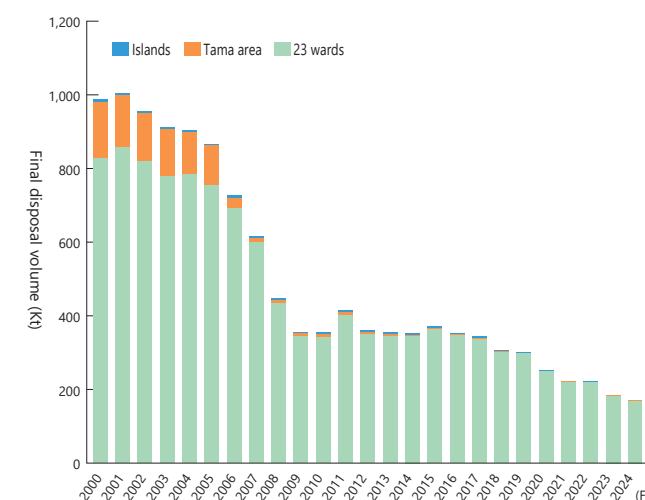
Status Quo of Waste Treatment in Tokyo

The amount of municipal solid waste generated in Tokyo per year decreased from approximately 5.50 million tonnes in the early 2000s to approximately 4.02 million tonnes in FY 2024. Partly due to progress in 3R initiatives, the amount of waste per day per Tokyo resident decreased by approximately 30% from FY 2000. The final disposal volume of municipal solid waste in Tokyo steadily decreased until FY 2009 due to improvements in the recycling rate and other reasons, but then remained flat, and has been trending downward again in recent years.

The amount of industrial waste generated in Tokyo has hovered around 26 million tonnes in recent years.



Changes in the amount of municipal solid waste in Tokyo

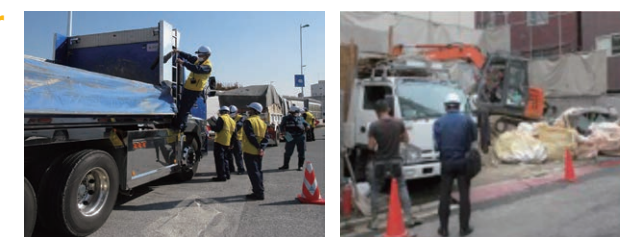


Changes in municipal solid waste final disposal volume in Tokyo

Strengthening the Waste Treatment System

Wide-area cooperation to prevent improper disposal of industrial waste

In 2000, at the request of TMG, a program called "Industrial Waste Scrum" was established in 21 local governments to eradicate illegal dumping. As of FY 2026, the organization consists of 37 local governments: Tokyo, 11 prefectures, and 25 ordinance-designated cities and core cities in the Kanto-Koshinetsu region, Fukushima, and Shizuoka prefectures.



Left: Roadside survey of industrial waste collection and transportation vehicles

Right: On-site survey at the source of waste

Strengthening Measures for Disaster Waste

TMG revised the TMG Disaster Waste Management Plan in September 2023 in light of changes in the damage estimates for the Tokyo Inland Earthquake and an increase in floods and storms in recent years.

Support for disaster waste disposal in Hachijo Town

To support Hachijo Town following the impact of Typhoons Halong and Nakri in 2025, TMG dispatched officials to provide technical assistance with disaster waste disposal. TMG is also working to ensure disaster waste can be transported promptly in the event of an emergency by preparing transport containers.



Main Environmental Initiatives of the Tokyo Metropolitan Government

In addition to the initiatives described above, TMG is developing a variety of environmental initiatives to realize a green and resilient global city Tokyo opening up a future.

For more information, visit the websites of the Bureau of Environment.

Main Plans, PR Booklets, and Other Materials

Tokyo Environmental Master Plan



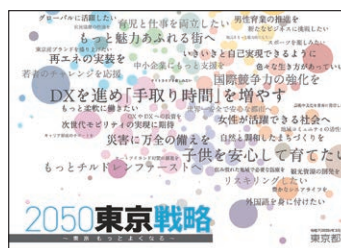
Tokyo Environment White Paper



Zero Emission Tokyo Strategy Beyond Carbon Half



Tokyo 2050 Strategy



* TMG's comprehensive plan that shows environmental initiatives in Policy Target 20 "Zero Emissions" and other sections

Collaboration with Municipalities on Environmental Initiatives – Introduction to the Collaboration and Support Menus 2026 Edition –

Eco Support 2026



Easy-to-understand introduction to TMG's environmental subsidy programs and other initiatives



Comprehensive dissemination of the latest information on environmental learning in Tokyo!

- ▶ TOKYO-ecosteps provides the latest information on environmental learning events in Tokyo. Applications for membership are being accepted.



Operated by the Tokyo Environmental Public Service Corporation



Recruiting Participants in Team Mottainai!

- ▶ Reduce food waste and single-use plastics, work on energy efficiency, and develop an environmentally friendly lifestyle.

