



## Environmental Vision 2030

**Connecting everyday life to a sustainable tomorrow**

March 28, 2022

**TOKYU CORPORATION**





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Since our founding, we have pursued urban and community development together with local communities through urban development, including the development of public transportation. While the development of urban and community areas has an impact on the natural environment, we have continued to think over and take action on ways to reduce that impact and to develop a society in which people, towns and the environment are in harmony.

Turning attention to the global environment, the recent World Economic Forum, environmental concerns such as climate action failure, extreme weather, biodiversity loss, and natural resource crises topped the list of major global risks. However, since individual companies and initiatives are limited in what they can accomplish, we believe there is a need to come together to tackle these challenges and change the way we live. As our own mission, we will develop urban and community areas where people can continue to live while clarifying an environmental vision, and aim to have our efforts help solve global environmental issues as we search for models that create harmony with the environment.

All people have a responsibility to leave a brighter future for our children. The future will be the culmination of how we live our lives today. Let's work together on urban and community development in which everyone can contribute to a sustainable society and the revitalization of the local environment as part of our daily lives of living, play and work.

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- Since our founding, we have pursued urban and community development that treats public transportation and urban development as two halves of a whole, in order to create ideal living environments.
- In urban development, we have always placed importance on *harmony between people, towns, and environment*, and this is sustainable urban development that is in line with the current SDGs, which we are working on together with the local community and society.



In 1918, Den-en-toshi Company, the origin of Tokyu Corporation, was started under the leadership of Eiichi Shibusawa. He adopted a Japanese style of the “Garden City” concept of Ebenezer Howard (UK), and presented to the world a style of verdant residential areas in the suburbs, from which people would commute into the city center by train. He believed that “man could never live without nature,” and his thoughts were carried on, to make improvements to housing shortages and the living environment in the Tokyo metropolitan area following the Second World War, in 1953 a new urban concept was announced, leading to the development of the Tama Den-en-toshi area.



To make the Tama Den-en-toshi area a green town together with local residents, the slogan “Greenery for the City and Dreams for the City” was adopted. In 1972 the first “green sapling presents” started, and over forty years, around 220,000 saplings were distributed through the area. Since 2012, this spirit has been carried on in the form of “Mido-Link” (“green link”) action, which aims to spread greenery through interpersonal connections. Community development support aimed at facilitating urban and community development as well as greening continues to this day.



In the early 1970s, water pollution in the Tama River had become a serious issue, stemming from a sharp increase in population density due to Japan’s high economic growth period. In 1974, The Tokyu Foundation for Better Environment (currently the Tokyu Foundation) was established. The foundation provides grants to fund expert academic research as well as research and other activities closely linked with people’s lives in the area. As of FY2020, the foundation had provided 1,309 such grants and contributed to the environmental conservation of the Tama River. By having the government and local residents joint forces, water quality in the Tama River has gradually improved, to the point where *ayu* (sweetfish) can now be seen swimming upstream.

- Based on our group slogan, “Toward a Beautiful Age,” we strive to fulfill our mission to create beautiful living environments, and working to solve social issues (SDGs, etc.) through urban and community development based on our sustainable management policy.
- We have set Sustainable Development Goal No. 11, “Sustainable Cities and Communities,” as the core goal to achieve through our business activities, and towards achieving it, we have formulated an environmental vision to further pursue a decarbonization, recycling-based society.

**Group Slogan**

Toward a Beautiful Age – Tokyu Group

**Mission Statement**

We shall strive to create beautiful living environments, in which each person can pursue individual happiness in a harmonious society.

**Sustainable Management Policy**

Under the group slogan “Toward a Beautiful Age,” we are committed to creating a beautiful living environment for our future and continuous solution of social issues through business by addressing material sustainability themes.

Material Sustainability Themes (Materiality):  
 Safety & Security, Urban and Community Development, Quality of Living Environment, HR Development, Decarbonization and Recycling-based Society, Corporate Governance & Compliance



- By working to shape towns that are in harmony with the environment as the embodiment of sustainable urban and community development, we promote sustainable growth together with towns and communities.
- We will also contribute to solving global issues by disseminating our good practices established in existing cities.

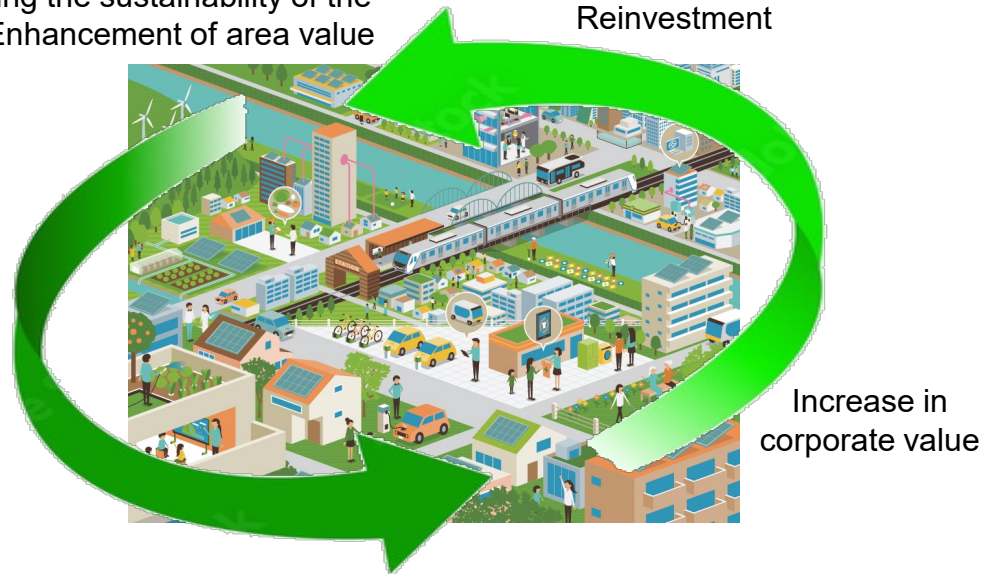


### | Realizing Towns in Harmony With the Environment |

To create sustainable cities and communities, we will work to realize towns in harmony with the environment toward a decarbonation and recycling-based society, and grow sustainably together with the towns.

Improving the sustainability of the cities/  
Enhancement of area value

Reinvestment



**Long-Term Recycling-based Business Model**

### | Helping to Solve Global Issues |

We will contribute to solving global issues by disseminating good practices in existing urban areas to reduce environmental impact and harmonize with the environment.

TOD: Transit-Oriented  
Development

Area-wide  
initiatives



Forming  
communities  
Collaboration with  
partners

**Developing Examples of Good Practices**

Leveraging the characteristics of our business, which is related to public transportation as well as urban and lifestyle infrastructure, we coordinate with customers and other partners in pursuit of sustainable urban and community development that achieves harmony with the environment.



## | Concept |

# Connecting everyday life to a sustainable tomorrow

## | Aspirations |

- **The past, present and future are linked, and the future will be the culmination of how we live our lives today.**
- **Our actions and the existence of towns can inspire a future full of expectations.**
- **We aim for everyone to lead daily lives in which they can choose environmentally-friendly activities without a particular sense of burden.**

# Connecting everyday life to a sustainable tomorrow

## | Scenes of Daily Life |

### Move

- CO<sub>2</sub>-free mobility
- Efficient and seamless mobility
- Resource recycling centered around eco-friendly train stations

### Live Play

- Easy eco-friendly and ethical lifestyles
- Energy-creating, low environmental impact homes
- Eco-friendly and smart communities
- Conservation of the natural environment and education

### Work

- Environmentally friendly offices
- Open innovation

## | Support for daily life |

- Digital technologies
- Preparing for and responding to natural disasters
- Energy resilience



## | Key Points of Realization |

1

Set **challenge targets**

2

Tackle the targets in **partnership** with all stakeholders

3

Provide **services that support** environmentally friendly **behavioral changes**



**Decarbonized society**

Engage in activities aimed at a level that will restrict global warming to 1.5°C while contributing to the decarbonization of towns.

**Recycling-based society**

Towards realizing a zero waste society, leverage the many customer contact points characteristic of our business to joint and expand the circle of resource recycling and the circular economy

1

**Set challenge targets**

- Company (Consolidated) Business Activities **Scope 1,2**  
2030: 46.2% reduction in CO<sub>2</sub> emissions (compared with FY2019 levels)  
Renewable energy ratio of 50%
- 2050: Reduce CO<sub>2</sub> emissions to effectively zero  
Renewable energy ratio of 100% (RE100)

- 2030: 10% reduction in waste volume (compared with FY2019 levels on a revenue unit basis)
- 2030: 10% reduction in water usage (compared with FY2019 levels on a revenue unit basis)

2

Tackle the targets in **partnership** with all stakeholders

3

Provide **services that support** environmentally friendly **behavioral changes**

- Supply Chain of Business Activities **Scope 3**  
2030: 30% reduction in CO<sub>2</sub> emissions (compared with FY2019 levels) \*
- Decarbonization of Towns **Going Beyond Scope 3**  
Achieve advances in urban decarbonization with services that help customers decarbonize, energy infrastructure management, coordination with local governments, and other activities.

- Provision of a menu of services to reduce environmental impact  
At least 100 by 2030
- People taking action on the SDGs: increase at least 30% by 2030\*  
(FY2021 50.6% → 65%)

\* In an internet-based SDGs awareness survey conducted by Tokyu Corporation in the 17 cities and wards along Tokyu railway lines, this is the percentage of people who responded that they intended to choose a company or intended to take action with regard to at least one of the 17 goals of the SDGs. In 2021 this figure was 50.6%.  
The 30% improvement is equivalent to the number of people taking action increasing by about 820,000.

**Decarbonization,  
Recycling-based  
Society**

Company  
(Consolidated)

Initiatives  
Aimed at  
Towns

\*Updated with new target set (November 14, 2022)

**Towards realizing a decarbonization, recycling-based society, we have established 11 actions to achieve the targets of our initiatives.**



**Energy conservation and energy management**

**We will reduce our energy usage through the introduction of development and equipment with a low environmental impact, the utilization of new technologies and energy management.**

- Environmental certifications, vehicle upgrades, energy management systems, heating source cooperation between properties, and the promotion of electrification

**Use renewable energy**

**With the aim of daily lives in which people can choose environmentally-friendly activities without a particular sense of burden, we will promote renewable energy operation on Tokyu train lines and the use of renewable energy in the properties we own.**

- Renewable energy operation on all Tokyu train lines
- We have started to use renewable energies as the basic specifications for newly constructed properties owned by the Company, and in principle will introduce renewable energies for the common areas and areas used by the Company at existing properties by 2030.

**Create renewable energy**

**We will contribute to the stabilization of renewable energy procurement and the realization of a decarbonized society through energy creation initiatives.**

- Development investment in renewable energy through an infrastructure fund, introduction of solar power generating equipment on the roofs or premises of Company facilities, expansion of renewable energy power plants to cater to Company demand

**Decarbonization of towns**

**We will strive to ascertain and reduce CO<sub>2</sub> emissions through the supply chain of our businesses, and promote the decarbonization of towns by contributing to building distributed energy systems.**

- Supply chain cooperation, coordination with local governments, CO<sub>2</sub> free transportation, promotion of EV adoption
- Support for installation of solar power generation and storage battery equipment, consideration of the adoption of energy storage systems to strengthen community resilience and make effective use of energy in a wide area

### Resource utilization

**We will make effective use of limited resources, make cyclic use of water, and promote a shift away from the use of plastics.**

- Use of recycled or renewable materials, researched and development into recycled materials, extending the life of buildings, etc., use of wood materials
- Rainwater utilization, utilization of reclaimed water through new technologies, trial initiatives related to the water cycle
- Use of substitute materials and promotion of recycling to shift away from the use of plastics

### Zero waste

**We will leverage the many customer contact points characteristic of our business to aim for a zero waste society.**

- Reduce: Revise excessive production and supply and reduce food losses
- Reuse: Promotion of reuse, sharing services, renovations, recycling platforms for unneeded items
- Recycle: Recycling of waste, chemical recycling of PET bottles
- Promotion of resource utilization to reduce waste, conversion of waste into energy resources

### Coexisting with nature

**We will take into account nature and biodiversity, and provide a living environment that enables interaction with the natural environment.**

- Preservation of nature and biodiversity, forest rehabilitation, green infrastructure
- Environmental assessments, acquisition of environmental certifications, sustainability-minded material procurement and product sales

### Support and encouragement

**We will become a member of a circle for resource recycling and expand that circle of recycling together with customers and partners.**

- Expanding the handling of environmentally certified products, promoting ethical consumption
- Green coin and green card systems
- Awareness raising activities, Mido-Link (green link) action

Coordination  
with local  
governments  
and  
communities

**We will coordinate with local governments and regions to form communities that contribute to the environment.**

- nexus concept, Next-generation suburban development, Shibuya Area Management Council
- Environmental education for children, support for the promotion of local cooperation (apps, etc.), community-based activities of Tokyu associations in Japan and overseas
- Research grants, support for environmental activities and environmental awareness-raising activities related to the Tama River Basin through the Tokyu Foundation

Coordination  
between  
businesses,  
academia and  
shareholders

**We will solve issues and promote open innovation through collaboration with companies, academic institutions and other entities.**

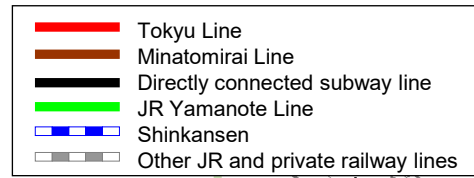
- Joint research, demonstration testing, open innovation
- Raising of funds to promote sustainability
  - Issuance of sustainability bonds, utilization of sustainability link loans
- Dissemination of ESG information, engagement with shareholders and investors

Internal  
systems

**We will establish solid management and governance systems and continually educate the employees responsible for urban and community development.**

- Environmental vision, environmental policy, environmental strategy
- Organizational structure of management, internal carbon pricing
- Employee education, commendation system (Tokyu Group Environmental and Social Contribution Awards)

This section introduces the main initiatives in urban and community development being pursued as part of the 11 Actions to realize a decarbonization, recycling-based society.



**2 Futako-tamagawa**  
 Urban and community development in harmony with the abundant natural environment of the surrounding area

**1 Shibuya**  
 Sustainable urban and community development to create an environmentally advanced city

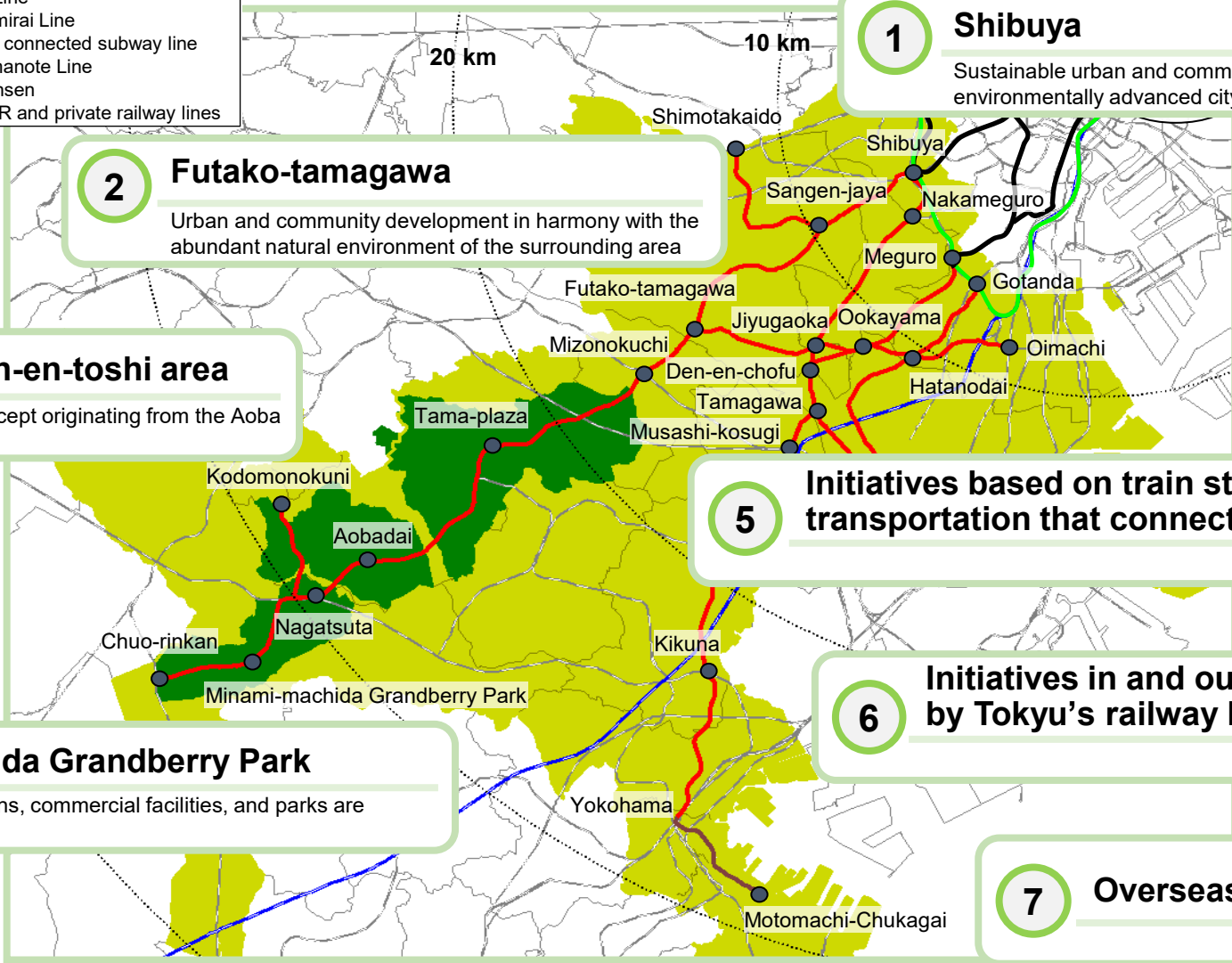
**3 Tama Den-en-toshi area**  
 The nexus concept originating from the Aoba area

**5 Initiatives based on train stations and transportation that connect towns**

**4 Minami-machida Grandberry Park**  
 A new town where stations, commercial facilities, and parks are integrated

**6 Initiatives in and outside areas served by Tokyu's railway lines (domestic)**

**7 Overseas**



Map: © Kokusai Kogyo Co., Ltd. - Sumitomo Electric Industries, Ltd.  
 ■ 17 municipalities along Tokyu's railway lines ■ Tokyu Tama Den-en-toshi

1 Shibuya



Shibuya 2-Chome 17 District Urban Redevelopment Project  
(Acquisition of ZEB Oriented certification)

Energy conservation, effective utilization of energy

- Integrated natural ventilation of Shibuya Hikarie and Shibuya Station, radiative cooling of Shibuya Station, office floor nighttime ventilation
- Promotion of ZEB

Energy management

- Heating source cooperation between buildings, including heat storage systems
- Considering the introduction of VPPs\* and new technologies

\* Virtual Power Plant

Promotion of open innovation

- Tokyu Alliance Platform\*
- Co-creation facility “SHIBUYA QWS”
- Support for the formation of an innovation ecosystem

\* Open innovation promotion program working on overall areas served by Tokyu’s railway lines, with a focus on Shibuya

Rehabilitation of the Shibuya River

- Rehabilitation of the Shibuya River mainly through “wall fountains” (water features) that utilize water from restored clear streams through public-private partnerships



“Shibuya Hiryou” project originating from SHIBUYA QWS

Measure to adapt to climate change

- Measures to deal with rainwater during torrential rains (Construction of a rainwater harvesting facility at the east exit of Shibuya Station\*, installing watertight panels to prevent water from entering the station entrances)



\* Developed as joint construction contractor with the Urban Renaissance Agency as part of the Shibuya Station Area Land Readjustment Project.

2 Futako-tamagawa

Futako-Tamagawa Rise (Preservation of the abundant natural environment and ecosystem)

- Tower office gold certified in the LEED\* NC (new construction category) ratings
- Gold certified in the LEED ND (Neighborhood Development category) ratings (a world first)



- Highest AAA ranking in JHEP certification that rates biodiversity
- Use of renewable energy from power plant owned by Setagaya Ward

\* LEED (Leadership in Energy and Environmental Design): An environmental performance rating index administered by the U.S. Green Building Council. The system aims to encourage the widespread adoption of sustainable buildings with superior energy efficiency.

Town management\*

- Community formation to foster links between local residents, workers and businesses



\* The management entities of the five blocks that make up Futako-Tamagawa Rise have formed the Futako-Tamagawa Rise Council and engage in town management activities. Tokyu Corporation was appointed by the Futako-Tamagawa Rise Council as the manager of the overall parts under management.

Provision of an app for local mutual aid

- Provision of an app\* encouraging local communication and mutual aid



\* The app “common” encourages autonomous local economies, the formation of communities, and the recycling of resources.

### 3 Tama Den-en-toshi area

#### Next-generation suburban development

- Comprehensive agreement concluded with the city of Yokohama (2012~)
- Promoted rehabilitation of existing town areas in suburban residential areas through cooperation between industry, academia, government and the private sector



Aims to develop a system that utilizes local characteristics to combine a cycle of environment, cross-generational exchanges, human resource skills and economies.

#### The nexus concept originating from the Aoba area

- Demonstration testing and commercialization, including “agriculture and food,” “resource recycling,” “energy” and “MaaS for areas far from stations”



[nexus Concept]  
The aim is to create a “walkable neighborhood” where elements of daily life such as living, studying, working and playing are fused with nature and agriculture.



[nexus Challenge Park]  
Development of a sharing-oriented community IoT farm, a market promoting local production for local consumption, and so on.

#### Resource recycling through building utilization

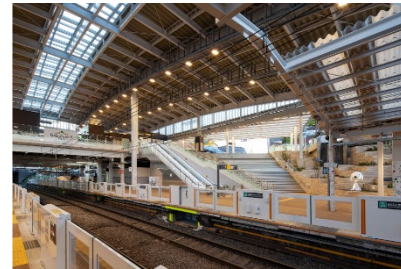
- Consultations over vacant homes
- Building renovations



### 4 Minami-machida Grandberry Park

#### A new town where stations, commercial facilities, and parks are integrated

- Station building gold certified in the LEED NC (New Construction category) ratings (a first for a station building in Japan)
- Zoning application area of roughly 15 hectares gold certified in the LEED ND (Neighborhood Development category) ratings



[Minami-machida Grandberry Park Station]  
Recognized for utilization of rainwater as flushing water for passenger toilets, rainwater drainage plan through the installation of large volume rainwater storage tanks, introduction of LED lighting, and achieving an approx. 70% recycling rate for waste materials generated during construction.



[Area-wide landscape design utilizing green infrastructure]  
Instead of artificial objects such as concrete, the power and functions of the natural environment from things such as stone, soil and greenery are utilized as the infrastructure that supports daily life.

#### Proposing a long-term cycle for living and towns

- Environmentally friendly condominium with fixed-term leasehold interest



[DRESSER Tower Minami-machida Grandberry Park]  
Apartment complex with a direct connection to the station scheduled for completion in January 2024 In addition to employing 100% renewable electricity, a carbon neutral lifestyle is proposed with the adoption of a solar tracking and lighting system, along with high-speed electric vehicle chargers, and a car sharing system.

#### Strengthened collaboration with local governments

- Conclusion of environmental agreement with the city of Machida

An agreement was concluded on initiatives to be pursued, including measures to mitigate climate change, adapting to the impacts of climate change, biodiversity, waste reduction and effective utilization, and the promotion of environmental education and learning.



5 Initiatives based on train stations and transportation that connect towns

From a low environmental impact to CO<sub>2</sub> free public transportation

- Setagaya Line renewable energy operation, operation of SDGs trains
  - ⇒ **Towards operation with 100%\* renewable energy on all Tokyu's railway lines**
  - \* Electric power from renewable energy that achieves effectively zero CO<sub>2</sub> emissions

Promoting further town decarbonization by promoting use

Energy conservation and energy management through the utilization of new technologies and other innovations

- Improved energy efficiency when making vehicle and equipment upgrades, introduction of LED lighting at train stations
  - Consideration of high-efficiency energy management through station air conditioning equipment, etc.
  - Consideration of ways to use surplus regenerative power\* from railway operations
  - Consideration of in-house power generation through new technologies
- \* Using the electric power generated when trains apply braking to accelerate them



Solar panels at Motosumiyoshi Station

Reducing CO<sub>2</sub> emissions through a project to utilize wood resources

- Renovation of the roof of the platform using wood
  - Reutilization of used materials from old station buildings (station timber)
  - Forming communities through local events that utilize station timber
- "Tama Timber" cultivated and produced in the Tama region was utilized.



Togoshiginza Station after renovation

Shifting from fossil fuels to electric, promoting substitute sources of energy

- Promoting the introduction of fuel cell buses, electric buses and next-generation mobility



The SORA fuel cell bus which uses hydrogen as its fuel



The Toward a Beautiful Age SDGs train



The 2020 series trains that have reduced electricity consumption by 50% compared with the previous models

Promoting zero waste utilizing the characteristics of train stations and transportation

- Waste reductions through the reuse of lost items
- Consideration of measures to reduce food loss utilizing train stations
- Recycling of resources using train station as a base

Accelerate cooperation with companies and enlarge the circle of activities



Demonstration testing of food loss prevention measures conducted at Nagahara Station



Collaborating with Book Off to re-use lost items that Tokyu Railways has traditionally disposed of once a retention period has passed

Environmental PR / Encouraging use

- PR for environmental measures
- Promoting the use of public transportation

環境にやさしい移動手段を  
さらなるCO<sub>2</sub>排出量の削減をめざして

ココロでまちを、サステナブルに。

電車での移動は、自動車よりもCO<sub>2</sub>排出量が少なく環境負荷を抑えることにもつながります。さらにCO<sub>2</sub>を抑える取り組みを続け、より環境にやさしい移動を実現します。

※乗客1人あたり1kmの距離に相当するCO<sub>2</sub>排出量(乗客1人あたり)の削減率は自動車に比べて約1/10です(2019年実績)。

## 6 Initiatives in and outside areas served by Tokyu's railway lines (domestic)

### Decarbonization and expanded adoption of distributed energy in areas served by Tokyu's railway lines

- Menu of support operations for EV users
- Installation service for solar power generating and storage equipment for homes
- Widespread adoption of ZEH-M, etc.



### Promoting energy creation

- Development investment in renewable energy plants through an infrastructure fund
- Promotion of decarbonization measures for the airport management business



### Proposing lifestyles with a low environmental impact

- Urban and community development where work, living and play are in close proximity, development of a walkable neighborhood
- Provision of MaaS to provide CO<sub>2</sub> free public transportation and enhance its convenience
- Integration with commuter passes and various subscription services
- Use of products made from plastic alternatives and proposing them to customers
- Reducing food loss and raising awareness about ethical consumption



Kawasaki King Skyfront Tokyu REI Hotel  
World-first hydrogen hotel converting used plastics into hydrogen energy



Offering more products made from natural materials and free from additives and coloring



Use of straws made from wood and biomass



Promotion of awareness-raising measures including dietary education and reduction of food loss



AI-based production and discount management (reduction of food loss)



Green Cards / Green Coins



Introduction of electronic receipt systems

## 7 Overseas

### Binh Duong New City in Vietnam

- Hanging gardens, wall greening and lush green living environments (housing subdivision business)
- Operation of fixed route buses with low environmental impact from the use of compressed natural gas (CNG), promoting a modal shift from motorcycles and cars to public transportation (Transportation Business)
- Introduction of composting and aquaponics inside facilities (Commercial)
- Community-wide town cleanup activities



Panoramic View of the Binh Duong New City project



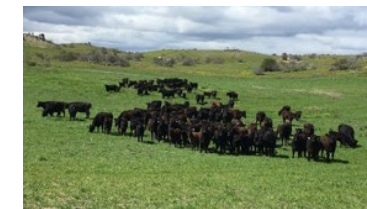
KAZE SHUTTLE fixed route bus

### Yanchep District of Western Australia

- Urban development aimed at realizing a Clean Green Sustainable City\*  
\* Focusing on four areas related to local life: agriculture, education, health and welfare. Aim for development that creates a positive cycle for the local community, environment and sustainability using the synergistic effects of mutual collaboration.
- Operation of the Y.hub research and educational facility (creation of innovation and business), vocational training school
- Farm business (establishment of local brand, local production for local consumption)



Panoramic View of the Yanchep District



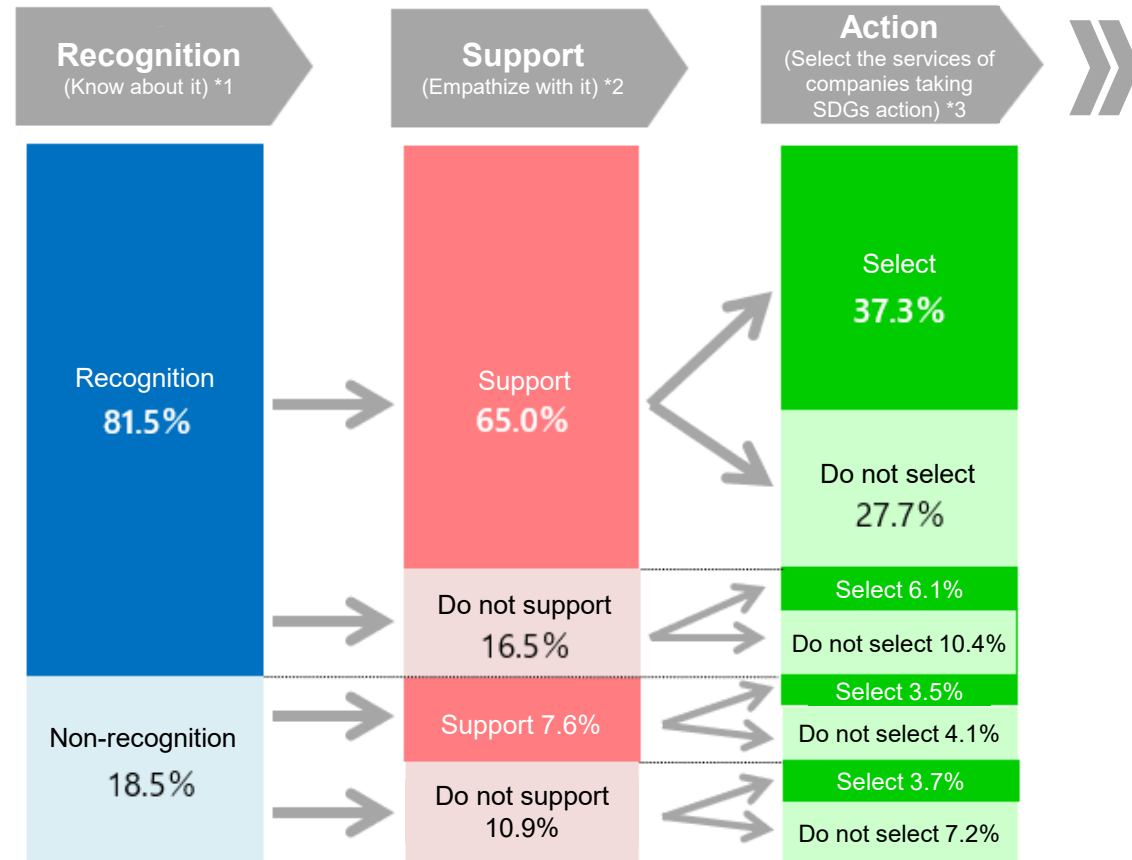
Farm business



## Reference Materials

## SDGs Awareness Survey of 17 municipalities along Tokyu's railway lines (FY2021)

- As a part of dialogue with stakeholders, the Group has been conducting an SDGs awareness survey of customers who live in the areas served by Tokyu's railway lines since FY2019.
- In the FY2021 awareness survey, the percentage of those who said they "recognized" the SDGs or "support" them has risen, with 50.6% saying they take action with respect to the SDGs.



### SDGs (Sustainable Development Goals)

- People who recognize the SDGs 81.5%
- People who support the SDGs 72.6%
- People who take action on the SDGs 50.6%

Survey Period: June, 2021  
 Survey Method: Internet Survey  
 Target area/conditions:

Males and females aged 15-79 who live in the 17 municipalities along Tokyu's railway lines

Number of samples: 1,034, weighted for analysis based on distribution ratios by gender and age

\*1 Figure represents the total of those who said they knew about the SDGs including what they contained, and those who didn't know what they contained but had heard the name.

\*2 Total of those who said they "strongly support" or "somewhat support" the SDGs

\*3 People who said they choose the products or services of companies working on at least one of the 17 goals of the SDGs, or said they wanted to select the products or services of such companies in the future.

### Tokyu Fudosan Holdings Corporation



GROUP VISION2030

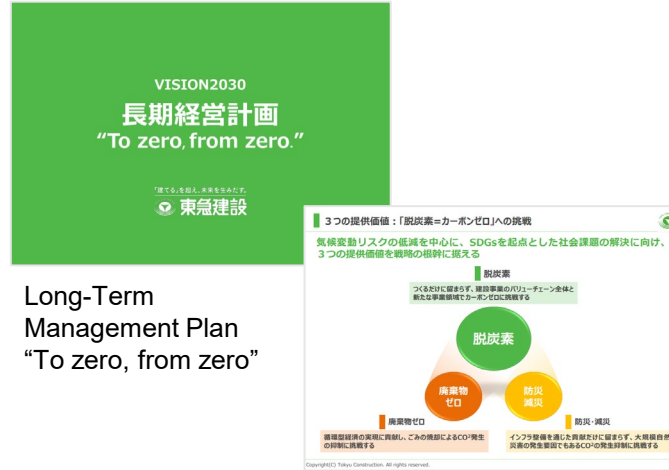


Environmental management policy



ReENE, the Renewable Energy Business of Tokyu Land Corporation

### Tokyu Construction Co., Ltd.



Long-Term Management Plan "To zero, from zero"

Use renewable energy for constructions starting from FY2021 onwards



Actively propose energy-saving, environmentally-friendly buildings



Introduction of low-carbon materials and fuels (GTL fuel)

### Seikitokyu Kogyo Co., Ltd.



Corporate Report 2021



Paving to reduce rises in road surface temperatures



Development of products utilizing recycled materials

## Main Environmental Initiatives and Results

### Main Initiatives

1962	Jan.	Tokyu Railways introduces Japan's first all-stainless-steel train, the Series 7000, with regenerative braking.
1972	Apr.	Tokyu's Green Present greening campaign is started in areas served by Tokyu's railway lines (currently known as Mido-Link (green link) action.)
1974	Aug.	The Tokyu Foundation for Environmental Purification (currently the Tokyu Foundation) is established.
1997	Sep.	The Tokyu Group slogan, "Toward a Beautiful Age – Tokyu Group" and the Group philosophy are established. The management philosophy includes a declaration to "manage in harmony with the natural environment."
1998		A public park plan designed to preserve the nature of an erosion-formed valley as part of the Inukura Land Readjustment Project in Miyamae ku, Kawasaki-shi, is designated as a Biodiversity Preservation Model Area Planning Model District by the (then) Environment Agency.
1999	Mar.	The Tokyu Railways Nagatsuta Rolling Stock Factory obtains ISO 14001 certification, a first for the Rolling Stock Factory of a privately operated railway.
2001	May	Setagaya Line Flowering activity to plant flowers and plants along track lane areas and in stations is started along the Setagaya Line.
2002	May	New 5000 series rolling stock with environmentally friendly features including energy savings is introduced (uses around 40% less electricity than the previous rolling stock).
2006	Sep.	Environmentally friendly equipment (installation of solar power generation system, re-use of rainwater, greening inside the station) is introduced at Motsumiyoshi Station on the Toyoko Line.
2007	Nov.	Tokyu Hospital rooftop and wall greening.
2008	Jun.	Opening of the new Shibuya Station (adoption of natural ventilation system and radiative cooling system).
2009	Jul.	First presentation of the Tokyu Group Environmental Awards (currently the Tokyu Group Environmental and Social Contribution Awards) is held.
2010	Sep.	Tokyu Capitol Tower receives the first certification as a development project that contributes to society and the environment through the conservation and creation of greenery (Urban Development SEGES) by the Organization for Landscape and Urban Green Infrastructure.
2012	Apr.	Shibuya Hikarie opens (featuring natural ventilation system, large-scale greening, full LED lighting on office floors, etc.) and is adopted as a Project for Promoting CO2 Reduction in Housing and Building (currently Project for Environmental Measures in Housing and Building) by the Ministry of Land, Infrastructure, Transport and Tourism.
2013	Sep.	As one of the leading projects in next-generation suburban development concluded with the City of Yokohama in April 2012, Home-Eco Diagnosis involving energy conservation suggestions from experts is implemented.
2015	Aug.	Futako-Tamagawa Rise Tower Office is the fourth in Japan to be gold certified in the LEED NC (New Construction category) ratings.
	Nov.	Futako-Tamagawa Rise is the first in the world to be gold certified in the LEED ND (Neighborhood Development category) ratings.
2016	Dec.	The Ikegami Line's Togoshi-Ginza Station, which uses approximately 120 m <sup>3</sup> of Tama-grown timber, contributes to forest and environmental preservation in Tokyo Prefecture and is the first railway facility in the prefecture to be subsidized as a grant-funded project.
2019	Mar.	Setagaya Line starts operating using 100% renewable energy, the first in Japan to achieve zero CO <sub>2</sub> emissions.
	Apr.	The Tokyu Foundation for Better Environment, the Tokyu Foundation for Foreign Students and the Gotoh Memorial Foundation are consolidated as the Tokyu Foundation.
	Oct.	Tokyu Corporation and its consolidated subsidiaries join RE100, the first corporate group in Japan that includes railway operations to do so.
2020	Jun.	Den-en-toshi Line Minami-machida Grandberry Park Station (renamed from Minami machida Station on October 1, 2019) has its station building gold certified in the LEED NC (New Construction category) ratings.
	Jul.	Minami-machida Grandberry Park, including its station building, is the first in Japan to be gold certified in the LEED ND (Neighborhood Development category) ratings.
	Sep.	SDG-themed wrapped rolling stock, Toward a Beautiful Age SDGs Train 2020, begins operation as a 100% renewable energy train.
	Dec.	Tokyu issues its first Sustainability Bond to finance businesses that contribute to solving both environmental and social issues (also issued to individual investors in December 2021).

## Main Environmental Initiatives and Results

### Major Awards Received (Results of Initiatives)

1989	Oct.	Tokyu Tama Den-en-toshi receives the Prime Minister's Award as part of the Green City Awards administered by the Organization for Landscape and Urban Green Infrastructure.
2001	Oct.	Received Award for Distinguished Service in Urban Greening from the Ministry of Land, Infrastructure, Transport and Tourism in recognition achievements from the Green Present greening campaign.
2003	Apr.	Inukura Land Readjustment Project wins Award of the Minister of the Environment in the 12th Global Environment Awards organized by the Fujisankei Communications Group.
2004	Jun.	Received Kanto District Transport Bureau's Commendation for Meritorious Service in Environmental Conservation from the director of the bureau.
2006	Dec.	Minister's Commendation for Excellent Transportation-Related Environmental Preservation Businesses received from the Ministry of Land, Infrastructure, Transport and Tourism.
2008	Jul.	Tokyu Hospital receives Environment Award of Tokyo Metropolitan Government.
2009	Apr.	Eco-friendly projects including new Shibuya Station receives Award of the Minister of Land, Infrastructure, Transport and Tourism in the 18th Global Environment Awards organized by the Fujisankei Communications Group.
	Nov.	Award received in the TEAM COOLBIZ category from the Cool Biz Promotion Council in recognition of the Cool Biz Train.
2010	Oct.	Den-en-toshi Line Tama Plaza Station receives Association Grand Prize from the Association of Railway Architects.
2011	Feb.	TokyuWelina Ookayama wins Grand Prize in the Other Major Facility Category of the Energy-Efficient Lighting Design Awards 2010 organized by Ministry of the Environment.
2012	Feb.	Futako-Tamagawa Rise Shopping Center wins Grand Prize in the Commercial Facilities and Accommodations category of the Energy-Efficient Lighting Design Awards 2011 organized by Ministry of the Environment.
2013	Jan.	Shibuya Hikarie ShinQs wins Grand Prize in the Commercial Facilities and Accommodations category of the Energy-Efficient Lighting Design Awards 2012 organized by Ministry of the Environment.
2016	Apr.	Futako-Tamagawa Rise wins the Grand Prize of the Global Environmental Awards at the 25th Global Environment Awards organized by the Fujisankei Communications Group.
2017	Mar.	Ikegami Line Togoshi-Ginza Station wins Grande Prize in the 20th Wood Utilization Competition organized by the Ministry of Agriculture, Forestry and Fisheries and other organizations.
2020	Feb.	Setagaya Line Zero CO2 Emission Initiative wins Environment Minister's Award as an outstanding environmentally friendly transportation initiative in the 11th EST Transport Environment Awards organized by the EST Promotion Committee and Foundation for Promoting Personal Mobility and Ecological Transportation.
	Oct.	Minami-machida Grandberry Park wins the 40th Green City Award (Minister of Land, Infrastructure, Transport and Tourism Award) and the 8th Platinum Vision Award (New Era Town Development Award).

### Tokyu Group Environmental and Social Contribution Commendation System

- To promote activities that contribute to the environment and society throughout the Tokyu Group, we continue to implement the Tokyu Group Environmental and Social Contribution Award, an award system. This scheme promotes recognition of solutions to environmental and social issues and raises awareness of initiatives among individual Group employees, and disseminates information about outstanding efforts within the Group.  
Details about the Tokyu Group Environmental and Social Contribution Commendation System (see from right) <https://tokyu.disclosure.site/en/158/>



<b>TOD</b>	Transit-Oriented Development. A concept proposed by US-based architect Peter Calthorpe in 1993 which advocates for public transportation-oriented urban development to create a society that moves away from personal automobiles.
<b>MaaS</b>	Mobility as a Service (MaaS). A service that presents the optimum means of transportation based on the purpose and preferences of each user.
<b>Energy conservation</b>	The efficient use of energy in order to prevent the depletion of finite energy resources like oil, coal and natural gas.
<b>Renewable energy</b>	Some global resources such as solar, wind, hydro and geothermal power and other forms of energy that always exists in the natural world which can be repeatedly used without depleting, and are characterized by the fact that they do not release CO <sub>2</sub> responsible for global warming when power is generated.
<b>Energy creation</b>	The creation of energy by oneself, by way of power generation or other means.
<b>EMS</b>	Energy Management System. A system that ascertains and monitors (visualizes) the usage of energy such as electricity, gas and heat in a facility such as a home or office building or in related equipment, manages and analyzes the used energy for reduction purposes, and helps optimize the energy usage of facilities and equipment through device control.
<b>Energy resilience</b>	The resilience to achieve the stable supply of energy and maintain energy infrastructure including electric power in a disaster or other emergency, and the ability to quickly restore such infrastructure.
<b>Distributed energy system</b>	A system that utilizes energy created from resources that exist in the region (or near the region) where consumers are located in order to enhance energy resilience to achieve an autonomous, decentralized society.
<b>VPP</b>	Virtual Power Plant. The provision of functions equivalent to power plants involving the control of energy resources (including reverse flow from consumer-side energy resources*) by the owners of consumer-side energy resources, the owners of power generating and power storage equipment directly connected to the power grid or third parties, in order to perform functions such as the load leveling of electrical power, absorption of surplus energy supply or supply during electric power shortages. * The flow of surplus electric power back to the electric power company side when a private power producer's generated power exceeds its power consumption (Cited and edited from the website of the Agency of Natural Resources and Energy, Ministry of Economy, Trade and Industry)
<b>Scope 1/2/3</b>	Classifications for the greenhouse gas emissions (supply chain emissions) released through business activities Scope 1: direct greenhouse gas emissions from the reporting company itself (fuel combustion and industrial process) Scope 2: indirect greenhouse gas emissions from the use of electricity, heat, and steam, which are supplied from other companies Scope 3: indirect greenhouse gas emissions, which does not fall under Scopes 1 and 2 (emission from other companies associated with the activities of the reporting company) (Cited and edited from the website of the Ministry of the Environment)
<b>TCFD</b>	Task Force on Climate-related Financial Disclosures. A task force formed by the Financial Stability Board (FSB) to encourage companies to disclose information on their responses to climate change.
<b>RE100</b>	Renewable Energy 100%. An international initiative that aims for companies to procure 100% of the electricity they use for their own business activities from renewable energy sources. RE100 is operated by The Climate Group in partnership with CDP.

<b>Internal carbon pricing (ICP)</b>	A system for estimating carbon prices internally within companies, and facilitating low-carbon investments and measures.
<b>ZEB ZEH ZEH-M</b>	Net Zero Energy Building Net Zero Energy House Net Zero Energy House Mansion Buildings, houses and condominiums designed to achieve net zero consumption of primary energy by the building over a year through energy conservation and energy creation, while maintaining a comfortable indoor environment.
<b>Innovation ecosystem</b>	An ecosystem in which innovation is continually created by having various players including government, universities, research organizations, companies and financial institutions become involved with and cooperate with one another.
<b>Zero waste</b>	An environmental social policy to reduce waste with the goal of generating zero waste. An approach to generate zero waste by avoiding the incineration or landfilling of waste, reducing environmental impact by avoiding the wasting of resources and ceasing the use of harmful substances and non-recyclable resources, and promoting composting, the use of renewable energies and recycling.
<b>Green infrastructure</b>	An approach where, instead of artificial objects such as concrete, the power and functions of the natural environment from things such as stone, soil and greenery are utilized as infrastructure supporting daily life to solve various issues.
<b>Green Coin and Green Card schemes</b>	Green Coins: A scheme run by Tokyu Hotels to reduce environmental impact by decreasing the amount of toothbrushes, razors and other items used on a daily basis at its hotels, and creating a fund for environmental conservation activities out of a portion of the money saved from the unused amenity items. Green Cards: A scheme run by Tokyu Hotels to clean rooms without changing sheets, covers, towels and other linen items, and creating a fund for environmental activities out of a portion of the costs saved from the unused linen.



The bird is a motif, expressing the concept of flying toward a hopeful and sustainable future, into a beautiful age with abundance for all.

### Toward a Beautiful Age – Tokyu Group

Beauty is the guiding principle and standard of value for Tokyu Group as it meets the challenges of the future. For all of us in Tokyu Group, the beauty we aspire to is a universal beauty deeply impressing anyone who encounters it, regardless of their generation or culture. We aim to create a beauty in harmony with people, their communities, and the natural environment. With beauty as our touchstone, Tokyu Group's goal is to create beautiful living environments, which reflect our desire to serve our customers by refining our products and services, raising quality, and promoting good health. We are making every effort to realize this vision, and moreover, we aspire to play an active role in creating a more harmonious society, overflowing with kindness and consideration, so that all people may find genuine happiness and express an individual lifestyle. Our slogan, "Toward a beautiful age," expresses the commitment of all of us in Tokyu Group to continually pursue beauty, and proclaims our determination to lead the way in creating beautiful living environments. Established on September 1, 1997