

Accelerating Actions toward a 2030 Carbon Half ***– Fast Forward to “Carbon Half” –***

The roadmap toward “Carbon Half” by 2030 will be clarified through the initiatives I to III shown below:

I. New sectoral targets to accelerate actions (draft)

TMG has set sectoral targets for reducing energy-related CO₂ emissions and energy consumption to promote reduction measures in each sector.

●Energy-related CO₂ emissions

These targets have been set for each sector to make a 50% reduction from the status quo (2019), taking into account sectors that had already made a significant reduction by 2019.

(Unit: Mt- CO₂eq)

	2000 (Baseline)	2019 (Status quo)		2030 (Estimate)			Tokyo Environmental Master Plan (status quo) (from 2000)
	Emissions	Emissions	From 2000	Emissions (Estimate)	Sectoral targets (From 2000)	From 2019	
Industrial/commercial sectors	27.27	27.63	1.3%	13.81	Approx. 50% reduction	-50.0%	Approx. 20% reduction
Industrial sector	6.79	3.81	-43.9%	2.22		-41.8%	
Commercial sector	20.48	23.82	16.3%	11.59	Approx. 45% reduction	-51.3%	(Approx. 20% reduction)
Residential sector	12.83	16.12	25.6%	7.28	Approx. 45% reduction	-54.8%	Approx. 20% reduction
Transport sector	17.65	9.40	-46.7%	6.12	Approx. 65% reduction	-34.9%	Approx. 60% reduction
Total of energy- related CO₂	57.75	53.15	-8.0%	27.21		-48.8%	

●Energy consumption

The targets set in the existing Tokyo Environmental Master Plan have been strengthened by one step for each sector.

(The target for the residential sector has been set taking into account that the number of households is expected to increase until 2035 and energy consumption is increasing due to the increase in the number of households (up about 30% from 2000) , even though the household energy intensity is improving.)

(Unit: PJ)

	2000 (Baseline)	2019 (Status quo)		2030 (Estimate)			Tokyo Environmental Master Plan (status quo) (from 2000)
	Consumption	Consumption	From 2000	Consumption (Estimate)	Sectoral targets (From 2000)	From 2019	
Industrial/commercial sectors	359	284	-20.9%	233	Approx. 35% reduction	-18%	Approx. 30% reduction
Industrial sector	96	46	-52.1%	36		-22%	
Commercial sector	263	237	-9.9%	197	Approx. 25% reduction	-17%	(Approx. 20% reduction)
Residential sector	186	190	2.2%	130	Approx. 30% reduction	-32%	Approx. 30% reduction
Transport sector	257	125	-51.4%	90	Approx. 65% reduction	-28%	Approx. 60% reduction
Total	802	598	-25.4%	453		-24%	

* The nature of the target values is a draft and it is under consideration at the Environmental Council.

II. Drastic strengthening of policies including regulations

TMG will drastically strengthen our policies through newly established or strengthened ordinances/systems, support measures that strongly encourage energy efficiency and renewable energy, and all of our policies and projects, in collaboration with the national government and municipalities.

■ Efforts immediately accelerated and strengthened

Commercial/ industrial sectors	<ul style="list-style-type: none"> Establish the foundation for a decarbonized society at an early stage through systems strengthened and expanded by ordinances and support measures acting as a stimulant
Residential sector	
Transport sector	<ul style="list-style-type: none"> Promote efforts to curb the use of automobiles Significantly expand support measures to strongly encourage the spread of ZEVs, such as the introduction of ZEVs and the deployment of chargers and other infrastructure
Expand the use of hydrogen energy	<ul style="list-style-type: none"> Further accelerate the use of hydrogen by expanding hydrogen mobility and infrastructure Formulate Tokyo Hydrogen Vision (tentative name) to accelerate efforts Promote efforts to expand the use and facilitate the understanding of hydrogen
Sustainable resource	<ul style="list-style-type: none"> Expand advanced efforts in society to promote the circular use of resources by opening the Tokyo Circular Economy Promotion

management	Center (tentative name) <ul style="list-style-type: none"> Promote advanced waste treatment to achieve a higher-level circulation
Other gases (Measures for fluorocarbons)	<ul style="list-style-type: none"> Enhance the proper management of commercial equipment and the expanded use of non-fluorocarbon equipment Promote the proper disposal of home appliances according to law
Climate change adaptation measures	<ul style="list-style-type: none"> Strongly promote all-out efforts throughout TMG Collect and provide information in collaboration with the Tokyo Climate Change Adaptation Center
Engagement and inclusion	<ul style="list-style-type: none"> Further encourage the engagement and inclusion of all actors, including Tokyo residents, businesses, municipalities, and overseas cities
TMG's initiatives for its own sustainability	<ul style="list-style-type: none"> Boldly accelerate actions throughout TMG with "Let's Start from Here" in mind, including the additional installation of solar power generation equipment at TMG facilities

III. Bold acceleration of TMG's initiatives for its own sustainability

- Promotion of efforts based on the Zero Emission TMG Action Plan (FY 2020 to 2024)
 - ✓ Promote decarbonization actions by bureaus of TMG by setting forth a range of targets and efforts toward FY 2024 as a waypoint to 2030
 - ✓ Significantly raise the targets of solar power generation installation (FY 2024) to accelerate their installation at TMG facilities
- Bold strengthening of all efforts throughout TMG to further accelerate actions
 - ✓ Accelerate the installation of solar power generation equipment at existing facilities in addition to those newly constructed or renovated
 - ✓ Realize zero emission buildings by maximizing the introduction of energy efficiency technology and renewable energy equipment
 - ✓ Introduce chargers to TMG facilities with 10 or more parking spaces in principle

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