

4 September, 2023

Bureau of Finance

Announcement of Decision on Target Projects
for the Tokyo Green Bonds in FY2023

The Tokyo Metropolitan Government has announced its decisions regarding the appropriation of funds to projects eligible for the Tokyo Green Bonds to be issued in FY2023.

No	Project	Tokyo Green Bond Environmental Category (See attachment)	Amount to be appropriated (millions of yen)	Expected environmental impact
1	Heat island countermeasures (heat insulation and water absorption)	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	1,300	✓ Develop and extend length of heat insulation and water absorption 14.716 km
2	Rebuilding and repairing of facilities	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	11,084	✓ Increase use of renewable energy (annual total) 5,121,051.91 kWh
		2. Realization of a Prosperous Society in Harmony with the Environment that Continues to Benefit from Biodiversity		✓ Expand green areas 10,287.94 m ²
3	Installation of LEDs for facilities and roads	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	1,131	✓ Reduce energy consumption (annual total) 7,084,600 kWh
4	Installation of photovoltaic power generation equipment at metropolitan public housing projects	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	658	✓ Increase use of renewable energy (annual total) 847,044kWh

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5	Environmental improvements at metropolitan schools (promotion of zero-emissions initiatives)	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	448	✓ Increase use of renewable energy (annual total) 951,679 kWh
				✓ Reduce energy consumption (annual total) 2,794,440 kWh
6	Storage battery installation projects for the use of renewable energy sources	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	38	✓ Storage capacity 500 kW (by the end of FY2024)
7	Development of cycling routes and areas	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	95	<ul style="list-style-type: none"> ✓ Develop and extend length - Cycling routes 11.5 km (by the end of FY2024) - Cycling areas 50.7 km (by the end of FY2030)
8	Development of parks	2. Realization of a Prosperous Society in Harmony with the Environment that Continues to Benefit from Biodiversity	3,200	✓ Expand developed areas 108,696 m ²
9	Greening along waterfronts	2. Realization of a Prosperous Society in Harmony with the Environment that Continues to Benefit from Biodiversity	262	✓ Expand developed areas 5,615 m ²
10	Development of small and medium-sized rivers	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	11,500	<ul style="list-style-type: none"> ✓ 68.5% completion of river development ✓ Capacity of regulating reservoir 1,056,500 m³ (by the end of FY2025)
11	Development of tidal wave protection facilities	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	771	<ul style="list-style-type: none"> ✓ Develop and extend length - Levee 0.01 km

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12	Development of sediment disaster countermeasure facilities and coastal protection facilities	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	1,000	<ul style="list-style-type: none"> ✓ Number of facilities Sabo facilities: 53 Coastal conservation facilities: 3 Steep slope collapse countermeasures: 15
13	Development of Tokyo port facilities and islands' coastal protection facilities	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	2,610	<ul style="list-style-type: none"> ✓ Expand development scale and number of facilities - Levee in Tokyo port area 60.4 km - Water gates in Tokyo port area 15 facilities - Internal revetment in Tokyo port area 45.6 km - Drainage pump station in Tokyo port area 4 facilities (by the end of FY2031) - Coastal protection facilities in the Izu Islands 0.4 km (by the end of FY2023)
14	Development of the marine park (Umi-no-Mori park)	2. Realization of a Prosperous Society in Harmony with the Environment that Continues to Benefit from Biodiversity	41	<ul style="list-style-type: none"> ✓ Expand developed areas Umi-no-Mori Park (Forest Creation Area) 58 ha (by the end of FY2024)

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15	Installation of charging infrastructure for zero-emission vehicle (ZEV)	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	2	<ul style="list-style-type: none"> ✓ Number of charging devices installed 40 ✓ CO₂ emissions reduction rate, etc. by replacing conventional vehicles with ZEV in conjunction with the introduction of charging facilities CO₂ (carbon dioxide) 100% NO_x (nitrogen oxides) 100%
16	Purchase of zero-emission vehicles (ZEV)	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	31	<ul style="list-style-type: none"> ✓ CO₂ emissions reduction rate, etc. by replacing conventional vehicles with ZEV - PHEV CO₂ (carbon dioxide) 20.1% - EV Motorcycle NO_x (nitrogen oxides) 100% CO (carbon monoxide) 100% HC (hydrocarbons) 100%
17	Promotion of ZEB within TMG-owned facilities	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	245	<ul style="list-style-type: none"> ✓ Reduce energy consumption 547,227 kWh (by the end of FY2026)
18	Use of environment friendly metropolitan buses	3.Realization of a Better Urban Environment that Ensures the Safety and Health of Tokyo Residents	2,100	<ul style="list-style-type: none"> ✓ Reduction of the emission of regulated substances - NO_x (nitrogen oxides) 80% PM (particulate matter) 63%

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19	Energy conservation within water facilities	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	794	<ul style="list-style-type: none"> ✓ Amount of electricity generated (including electricity sold) 497,844kWh (by the end of FY2024) ✓ Reduce energy consumption (annual total) 1,376,094kWh
20	Energy conservation and global warming prevention within sewage facilities	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	2,300	<ul style="list-style-type: none"> ✓ Reduce GHG emissions (capacity) 33,000 t-CO₂/5 years (by the end of FY2025)
21	Improvement of centralized sewerage system	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	700	<ul style="list-style-type: none"> ✓ Capacity of storage facility 1.75 million m³ (by the end of FY2025)
22	Flood countermeasures	1.Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	1,000	<ul style="list-style-type: none"> ✓ Drainage system flooding caused by 50 mm/h rain avoidance rate 73% (by the end of FY2025)
Total			41,310	

Appendix: Tokyo Green Bond Environmental Categories

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Tokyo Green Bond Environmental Categories

Below are the environmental categories from the Tokyo Environmental Master Plan (September 2022), example Tokyo Green Bond target projects, and expected environmental impacts.

No.	Environmental Category	Example projects	Expected Environmental Impact
1	Realization of Zero Emissions through Energy Decarbonization and the Sustainable Use of Resources	<ul style="list-style-type: none"> ■ Reduce the greenhouse gas emissions of office buildings ■ Promote energy conservation and management ■ Promote the use of zero emission vehicles ■ Promote advanced transportation technology and the use of bicycles ■ Increase the utilization of renewable energy sources such as solar, geothermal, hydrogen, sewerage heat, etc. ■ Reduce resource loss and increase the use of environmentally friendly materials ■ The 3 Rs (reduce, reuse and recycle), Promote the recyclable use of waste ■ Increase the utilization of materials that reduce environmental burdens ■ Measures to counteract rising temperatures in urban areas ■ Measures addressing floods and natural disasters ■ Road improvement (heat insulation and water absorption) ■ Improve water quality and conserve groundwater 	<ul style="list-style-type: none"> ■ Reduce CO₂ emissions ■ Reduce energy consumption ■ Increase renewable energy use ■ Reduce amount of waste ■ Increase amount of recyclable waste ■ Improve adaptability to rising temperatures ■ Improve adaptability to natural disasters such as floods, tsunamis, etc. ■ Improve heat insulation and water absorption ■ Improve water quality
2	Realization of a Prosperous Society in Harmony with the Environment that Continues to Benefit from Biodiversity	<ul style="list-style-type: none"> ■ Plant and protect plants through the development of parks, street trees, forests, etc. ■ Conserve biological diversity (Develop tidelands in marine parks, etc.) 	<ul style="list-style-type: none"> ■ Expand green areas ■ Expand developed areas
3	Realization of a Better Urban	<ul style="list-style-type: none"> ■ Improve air quality ■ Promote measures to prevent/remediate soil contamination 	<ul style="list-style-type: none"> ■ Improve air/soil quality ■ Reduce CO₂ emissions ■ Increase amount of

No.	Environmental Category	Example projects	Expected Environmental Impact
	Environment that Ensures the Safety and Health of Tokyo Residents	<ul style="list-style-type: none"> ■ Promote the treatment of hazardous waste 	recyclable waste