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# Environmental Management

We are firmly committed to concrete action for the promotion of environmental protection, energy conservation, and carbon reduction in search for potential responses and adaptations for climate change mitigation. MediaTek has passed the certification audit for ISO 14001 Environmental Management System. Consistency of environmental protection goals and implementation strategies is maintained by relying on the PDCA management cycle and through adoption of systematic management approaches.

In addition, a pollution prevention and mitigation mechanism has been established to maximize MediaTek's influence in the field of environmental protection. The Company has also passed the certification audit for the ISO 45001 Occupational Health and Safety Management System. The goal lies in the guarantee of workplace health and safety through systematic management.

## Environmental Policies

As a global, fabless semiconductor company, we specialize in IC design. All manufacturing operations including wafer production, packaging, and testing are carried out by commissioned manufacturers. MediaTek therefore prioritizes green product design, green procurement and management for subcontractors, reduction of resource and energy waste, and safeguarding of employee health and safety. This not only demonstrates MediaTek's commitment to fulfilling its sustainable development but also represents a key asset securing the Company's international competitiveness in the future. MediaTek proactively implements its environmental policies through four major management approaches. In 2023, total environmental expenses amounted to NT\$80.56 million:



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promulgated by the government and active responses to international environmental protection trends and zero-incident campaigns.

**Achievements**

- ▶ Zero penalties imposed for violations of environmental safety regulations in 2023.

energy conservation, and green procurement and management to ensure conformity of products to international eco-trends, in order to

**Achievements**

- ▶ All our products conform to ROHS and use of prohibited substances is forbidden.

global environmental protection initiatives and cherishing of natural resources is strengthened through implementation of resource and energy conservation, recycling, and reuse; safeguarding of worker health and safety and prevention of occupational diseases and workplace hazards.

**Achievements**

- ▶ 100% completion rate of health and safety training for new hires in 2023.

ISO 14001, ISO 45001, ISO 14004 and ISO 50001note, in order to improve the ESH management procedures. Contractors are required to comply with the ESH policy and give internal and external staff members a clear understanding of ESH policies to ensure the adequacy and effectiveness of the ESH management system. To ensure the ESH and effectiveness.

**Achievements**

- ▶ Completion of external certification audits for said ISO Management Systems in sync with the latest international trends in the field of management systems in 2023.

[Note] ISO 14001 (effective from August 17, 2022 to August 17, 2025), ISO 45001 (effective from July 30, 2022 to July 30, 2025), and ISO 50001(effective from January 13, 2022 to January 13, 2025)

**Environmental expenses**

Unit: NTD Thousand

Annual certification audits of the ESH management system	Commissioned clearance of domestic waste	Office and floor cleaning	Landscape maintenance
159	4,033	61,012	4,437
Sewage pool cleaning	Vector controls	Cleaning supplies	Total expenditures
1,823	2,516	6,580	<b>80,560</b>

**Energy Management**

In 2023, MediaTek expanded its office premises and IT data centers, resulting in a total electricity consumption of 178.771 GWh, an 8% increase from the previous year.

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## Energy use conditions in the most recent three years

Energy	2021	2022	2023
Natural gas (GJ)	0	0	483
LPG (GJ)	5,716	6,751	6,654
Gasoline (GJ)	0	0	238
Diesel (GJ)	1,663	1,280	932
Purchased electricity (GJ)	444,568	595,827	643,577
Renewable energy (GJ) (renewable energy certificate)	0	0	0
Total (GJ)	451,947	603,858	651,884
Energy intensity (GJ per person)	41.1	49.0	52.9
Ratio of electricity to total energy use (%)	98.37%	98.67%	98.73%
Renewable energy usage rate (%)	0.00%	0.00%	0.00%

[Note] Heating value units are based on the heating value chart released by the Bureau of Energy.

[Note] The increased energy consumption in 2023 compared to 2022 can mainly be attributed to the higher number of employees and ongoing expansion of the scale of IT data centers; the higher energy intensity can mainly be attributed to the fact that the extent of the power consumption increase exceeds the extent of staff increase.

## Greenhouse Gas Emission Management

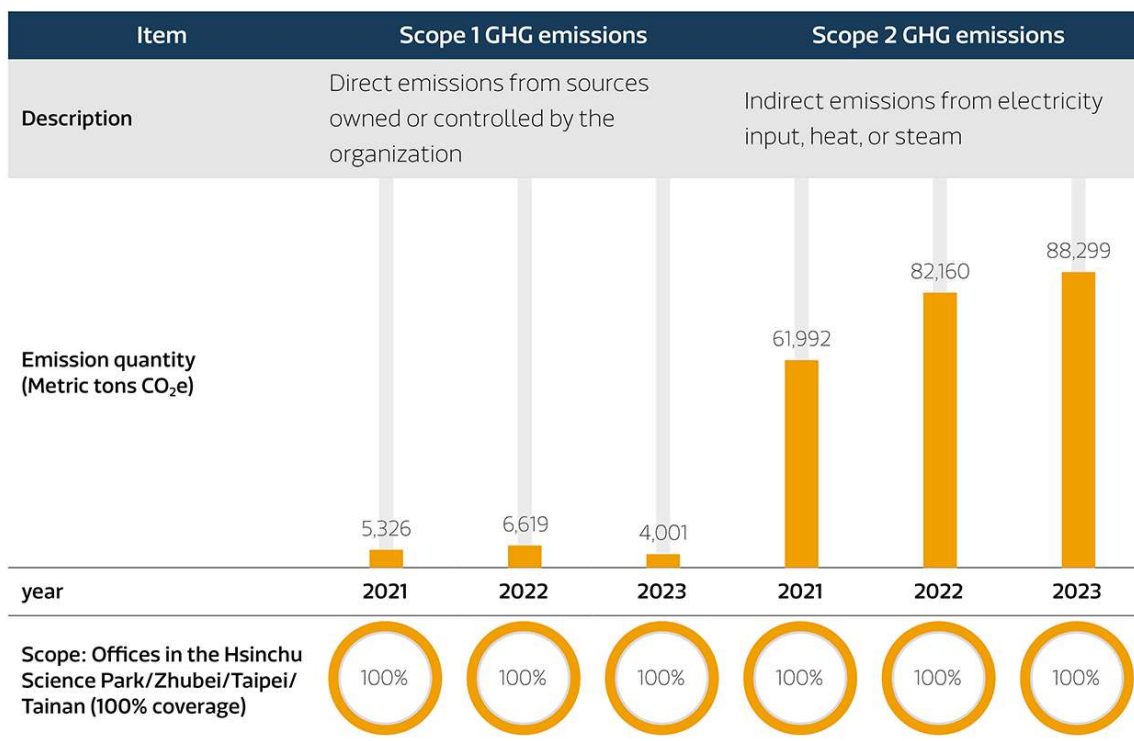
### • Scopes 1 & 2 GHG emissions

- Sources of GHG emissions from resource use include purchased electricity, common facilities, boilers, cooling towers, and chillers. Specifically, purchased electricity, which is under scope 2, accounts for 95.67% of total emissions. As the Company's scale of operations continues to grow, we are committed to improving energy efficiency and planning for renewable energy use in order to reduce greenhouse gas emissions from our operations.
- The main reduction measures in 2023 were to improve the energy efficiency of the data center, to replace the lighting of existing office locations with LEDs etc. in order to improve the efficiency of electricity consumption. Meanwhile, the Company continues to pay attention to various climate actions, such as the Science Based Targets (SBT) that limit the global temperature rise to 1.5 ° C and the global renewable energy initiative, RE 100.
- Enhancing the use of renewable energy is currently one of the main ways to reduce carbon for companies around the world, and it is also Mediatek's essential approach to reduce greenhouse gas emissions. Therefore, the company will continue to plan

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- issues which are of immediate concern to employees. In 2023, carbon emissions generated from transportation was reduced by 302 metric tons CO<sub>2</sub>e.
- To practically respond to the low carbon emission trend, in addition to maintaining the scheduled shuttle bus and electric shuttle bus between offices, 19 more electric vehicle charging stations were installed in 2023. Moreover, the Company worked with Gogoro in March 2023 to activate the first corporate swapping station in Hsinchu Science in March 2023.

MediaTek GHG emission status of 2023



[Note] MediaTek has been conducting autonomous inventories since 2016. The increase in GHG emissions in 2023 can mainly be attributed to the increase in GHG emissions resulting from the expansion of the scale of its office premises and IT data centers in response to the industry expansion.



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Global	term 1~3 years	Conducting Global Offices' GHG inventories
Global	Long-term 3~5 years	Conducting Global Offices' GHG inventories/audit and risk assessments

**Green Transportation**

Item	Description	Effects
<b>Shuttle bus services for commuters</b>	Large-sized buses have been rented since the launch of shuttle services in 2015. Employees are picked up and dropped off at specific locations. The carpooling service not only helps reduce energy consumption and carbon emissions associated with commuting by car but also raise awareness of environmental protection concepts among employees.	In 2023, there were a total of 57,826 persons (5 routes and 7 runs on duty/off duty), a decrease by about 12.9% from the 66,363 persons in 2022. Notwithstanding, we will continue to optimize the driving routes and promote the carpooling service to improve the usage efficiency.
<b>Shuttle bus services between office buildings</b>	We provide shuttle bus services between office buildings in 20-minute intervals to reduce energy consumption and carbon emissions associated with commuting by car.	In 2023, there were a total of 6,442 persons, a decrease by about 8.2% from the 7,019 persons in 2022. Notwithstanding, we will continue to promote the service to improve the usage efficiency.
<b>M-Bike services between office buildings</b>	We provide 10 bicycles for commuting between office areas in a carbonless manner to encourage employees to adopt eco-friendly lifestyles and engage in regular exercise.	A total of 455 persons used the service in 2023, an increase by 362 persons from 93 persons in 2022, as a result of the "E-management" and "addition of stations" for convenience.
<b>Company-owned e-scooters for security personnel</b>	We provide e-scooters for office patrols and inspections by security personnel in response to the development trend combining environmental protection and transportation lifestyles.	Total distance traveled amounted to 1,100 km in 2023, which is roughly the same mileage used in 2022.
<b>EV charging stations</b>	In response to the low-carbon emission and eco-friendly trend of electric vehicles, we installed electric vehicle charging stations for the convenience of colleagues. Meanwhile, we still continue to expand the scale.	In 2023, the number of buildings were expanded to 19, with the annual carbon reduction by approximately 174 metric tons, an increase by 6 buildings from 2022 and increase in the annual carbon reduction by 105 metric tons.
<b>E-scooter battery swapping stations</b>	The Company worked with Gogoro to activate the first corporate swapping station in Hsinchu Science.	It was opened in March 2023. A total of 17,795 persons used it throughout the year, with the annual carbon reduction by approximately 59 metric tons.

**Water resource management**

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Although the total water consumption increased, Mediatek continued to engage in the water resource improvement projects, coupled with various water reduction measures, thereby saving the water by 22,936 metric tons in total. In terms of risk management, the WRI Aqueduct tool was used to simulate the IPCC RCP 8.5 scenario to simulate and confirm that the sites in Taiwan are not located in areas with high water stress.

Our wastewater is mostly domestic sewage. It is discharged into natural water bodies upon treatment in wastewater plants in a unified manner in accordance with regional regulations to avoid local environmental impacts. The total discharged wastewater quantity of 214,789 metric tons (around 215 million liters) in 2023 is 6% more than the previous year for the same reason as the said increase in water consumption.

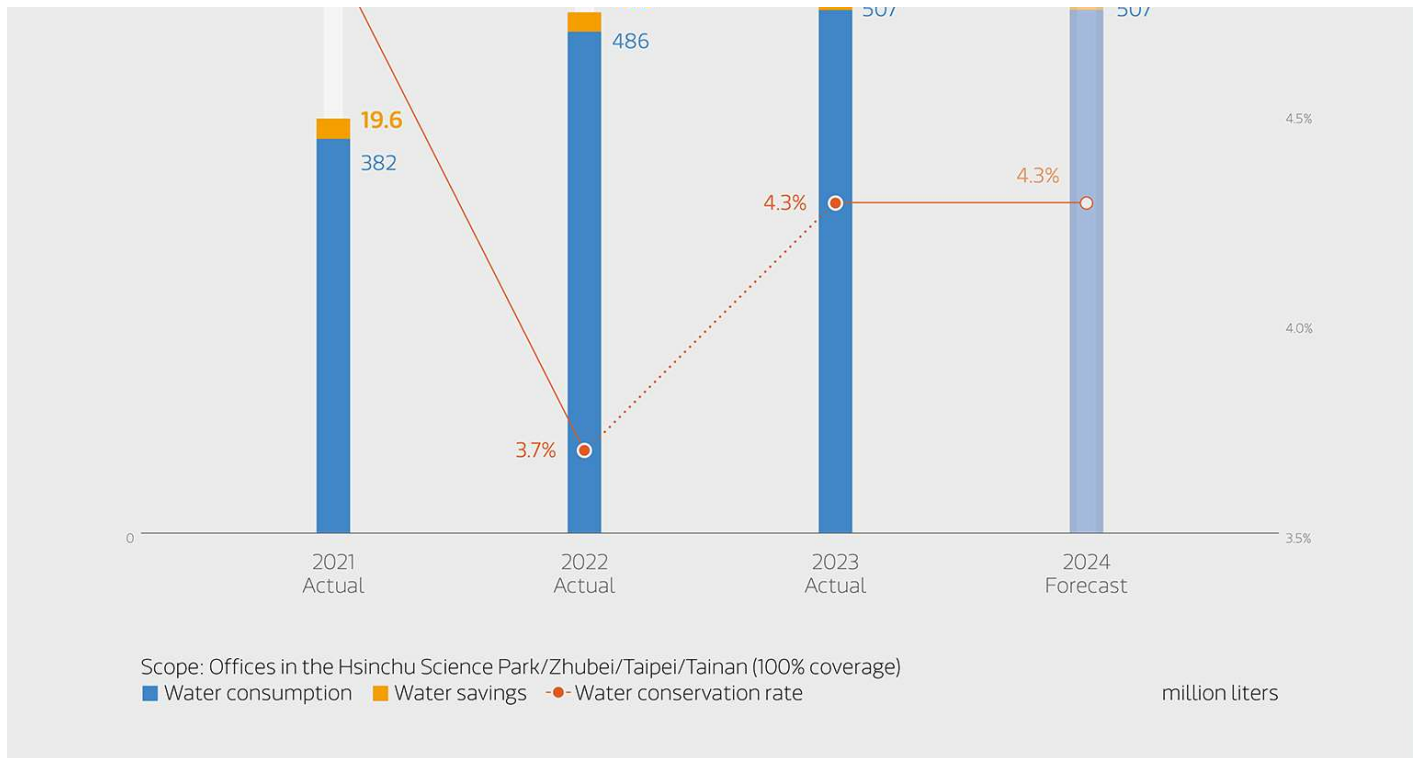
#### Water consumption in the most recent three years

Year	2021	2022	2023
Water intake (million liters)	382	486	507
Water consumption (million liters)	201	283	292
Water discharge (million liters)	181	203	215

Item	Effects	Adopted Improvements
Equipment Replacement	Water saved by 8,122 metric tons	Enhanced efficiency: Utilization of water-saving devices (incl. automatic faucets, water-saving toilets, and use of water-saving faucets for washing water in recycling areas)
Water Resource Recycling	Water saved by 915 metric tons	Setting up of rainwater recycling tanks - recycled rainwater can be used for cooling towers
	Water saved by 13,899 metric tons	Condensed water from air conditioning systems and recycled RO water can be utilized for garden irrigation to reduce the waste of water resources

[Note] Scope: Offices in the Hsinchu Science Park/Zhubei/Taipei/Tainan (100% coverage)

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## Waste Management

First enterprise in the Hsinchu Science Park area to set up a resource recycling machine in cooperation with EPA. We reinforce waste management and prioritize waste reduction to realize the goal of resource recycling and reuse. Sorting, recycling, reuse, and proper treatment is carried out in a conscientious manner. In addition, ongoing improvements are implemented in the fields of waste storage, transportation, and treatment and environmental impacts. MediaTek selects qualified manufacturers for waste disposal and reuse operations in a rigorous manner and conducts non-scheduled audits of the legality of waste clearance processes to fulfill its supervision responsibility. In 2023, the waste treatment and recycling rate reached 26%. In the future, we will continue to increase the recycling ratio or reduce the quantity of waste which cannot be recycled, in order to achieve the goal of continuous improvement. In addition, we are the first enterprise in the Hsinchu Science Park area to set up a resource recycling machine in cooperation with EPA and offer detailed information on our achievements as a reference for other companies.

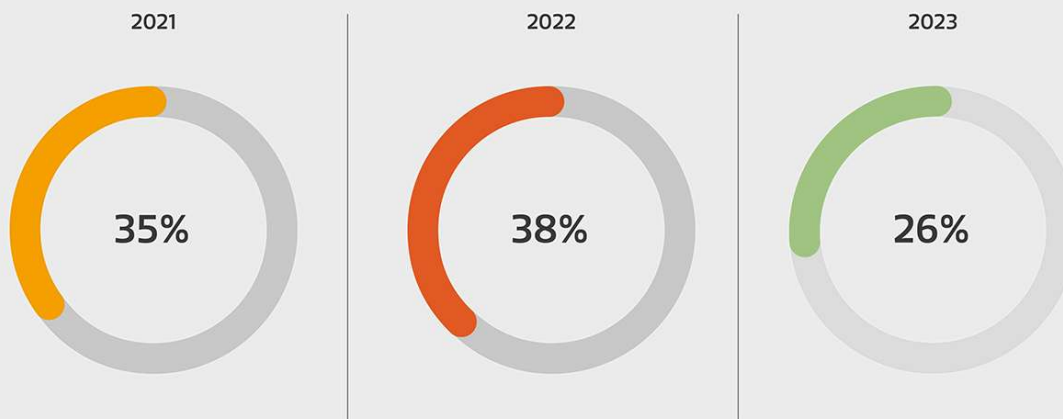
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Municipal solid waste	Domestic waste	Incineration	86.76	47.09%	99.07	45.33%	130.55	59.13%
	Waste paper	Recycling	46.03	24.99%	60.12	27.51%	46.32	20.98%
	Waste iron container	Recycling	0.41	0.22%	0.18	0.08%	0.14	0.06%
	Waste aluminum container	Recycling	0.41	0.22%	0.18	0.08%	0.00	0.00%
	Waste lighting source	Recycling	0.02	0.01%	0.05	0.02%	0.00	0.00%
Hazardous waste	Scrapped electronic parts and components scraps and defective products	Outsourced treatment	50.60	27.47%	58.95	26.98%	43.78	19.83%
Total			184.23	100%	218.55	100%	220.79	100%

[Note] Scope: Offices in the Hsinchu Science Park/Zhubei/Taipei/Tainan (100% coverage)

[Note] The main source of hazardous waste is rejects returned by suppliers and utilized for testing. As MediaTek is a fabless IC design company, no hazardous waste is generated during its business operations.

### Recycling rate in the most recent three years



[Note] Recycling ratio=Recycled amount/Total of the general waste



**MEDIATEK**



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