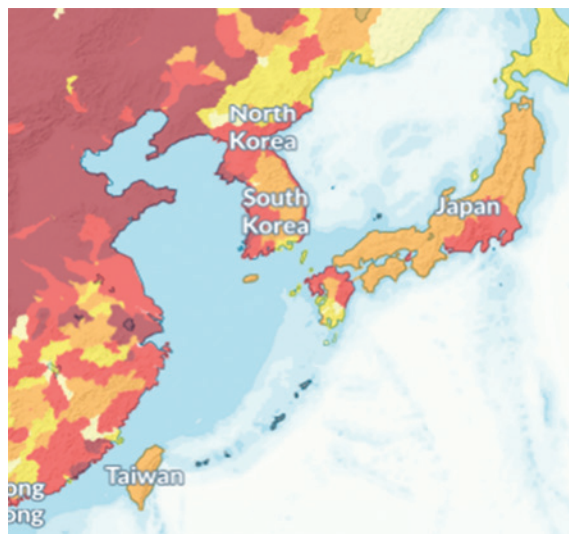


## 4.4 Water Stewardship

### Impact Assessment and Water Resource Risks GRI303-3, 303-4, 303-5, 304-1 CSA 2.5

PharmaEssentia's production base is located in the Central Taiwan Science Park, Taichung Park. According to statistics, the daily water supply capacity of the Central Taiwan Science Park is 107 million liters, while the Taichung factory of PharmaEssentia withdraws 0.04 million liters per day, which represents a proportion of 0.037%. This level of water use does not have a significant impact on the community.

Furthermore, risk identification conducted using the Water Risk Assessment Tool developed by the World Resources Institute (WRI) indicates that all operational sites of the company are located in areas with low to medium water stress.



Data Source: World Resources Institute (WRI)



### Water Intake and Discharge

Although our company's operations do not consume large amounts of water resources, we implement measures to conserve water. Our main production facility, the Taichung Plant, is located within the Taichung Science Park, where the water source is municipal water (third-party freshwater), and the discharge is managed through the Taichung Park's wastewater treatment plant. In compliance with the regulations of the Ministry of Environment, water quality monitoring of the discharge is conducted biannually by an inspection agency authorized by the Environmental Protection Administration, ensuring adherence to the environmental standards set by the Environmental Protection Administration and the Central Taiwan Science Park of Taichung.

Operational Site Nankang Software Park Phase II	Water Source	Water Supplier	Usage		Discharge Point	
			Manufacturing Process	Domestic Use	Wastewater Treatment Plant	Surface Water Bodies
Nangang Software Park Phase II	(Tamsui River Basin)	Municipal Water		✓		
Taichung Plant	(Yongheshan, Mingde, Liyutan, and Deji Reservoirs)	Municipal Water	✓	✓	✓	
Panco (Shimen Reservoir)	(Shimen Reservoir)	Municipal Water		✓		

## Water Pollution Control and Wastewater Discharge Management Indicators CSA 2.5.6

The Taichung plant conducts water quality monitoring of its discharge water every six months. The testing is performed in accordance with the standards set by the Ministry of Environment and carried out by an Environmental Protection Administration-approved laboratory. In 2023, all tests met the regulatory standards. The discharged water is properly treated at the Central Taiwan Science Park, Taichung Park's wastewater treatment plant before release, complying with the wastewater treatment system standards for pharmaceutical manufacturing set by the Central Taiwan Science Park Administration. The water quality of the discharge in 2023 met all controlled discharge criteria and limits, with no significant environmental pollution concerns.

Facility Area	Taichung Plant - Operations Center	Taichung Plant - Manufacturing Center
Discharge Handling	Regulated Discharge	Regulated Discharge
Tested Parameters	None	pH, COD, BOD, SS, Water Temperature, True Color, Free Residual Chlorine
Discharge Standards, Source of Standards (Environmental Indicators, Followed Regulations)	Taichung Park Sewerage Discharge Standards	Taichung Park Sewerage Discharge Standards
Discharge Location	Commercial Building	Junhao Factory Area

## Water Recycling and Reuse

At the Taichung plant, water recycling and reuse are enhanced through the reclamation of reverse osmosis brine and wastewater, which are redirected into the cooling towers of the air conditioning system to improve the efficiency of water resource cycling. In 2023, a total of 6.62 million liters of water were recycled.



**6.62** million  
liters

Taichung Plant Process Water Recycling and Reuse

PharmaEssentia Water Resource Statistics Table

(in million liters)

Location	2020			2021			2022			2023		
	Intake	Discharge	Consumption	Intake	Discharge	Consumption	Intake	Discharge	Consumption	Intake	Discharge	Consumption
Taipei HQ	10	-	10	7.78		7.78	7.38		7.38	7.63		7.63
Taichung Plant	15.64	9.46	5.18	15.1	5.6	10.5	18.11	9.13	8.98	14.13	5.74	8.39
Panco	0	0	0	0	0	0	0	0	0	1.4		1.4
Total	25.64	9.46	15.18	22.88	5.6	18.28	25.49	9.13	16.36	23.16	5.74	17.42