

2024 年度可持续水管理信息披露报告

2024 Sustainable Water Management Disclosure Report

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1 水管理承诺 Water Management Commitment

HAI MINH TEXTILE J.S.C. is aware about the increased water risks associated to the climate crisis and acknowledge that more work needs to be done to increase our own operations and our supply chain partner sites' resilience to water risk. We are committed to collaborating with Burberry on Water Conservation to become more water responsible and resilient together. We commit to provide water usage and production data at facility level to enable the assessment and improvement in our water impact. Based on our water risk, intensity and assessment performance, we commit to develop and implement proportionate action plans for our own operations and our supply chain partner sites.

2 公司水管理战略 Corporate Water Management Strategy

The overall sustainable development strategy of Hai Minh Textile Joint Stock Company is to continue to assume social responsibility for consumers and the environment. Emphasizes a focus on human value in the production process and contributions to the environment, consumers and society throughout the entire life cycle of operations.

In order to realize its sustainable development strategy, in the field of water resource management, Hai Minh Textile Joint Stock Company has committed to continuously improve the efficiency of water management in its activities, actively participate in and

promote the transformation of the industrial chain, and at the same time contribute to the development of water security of workers, river basins and communities. Specific strategic priorities, goals and roadmaps include:

- (1) Enhancing the concept and ability of all employees to save water, fully implementing a complete water management system and ensuring full coverage of production and operation links.
- (2) Focus on evaluating, developing and implementing technological innovation in water-saving production technology, environmentally friendly technology, resource recycling and water reuse. Recovery of cooling water from the dyeing and finishing process. Condensate recovery from washing machine continuously. Reuse water recovery from printer washing and fabric sizing. Operating to the maximum capacity of the UF-RO water purification system reduces the amount of wastewater generated.
- (3) Improve information transparency and water management efficiency, actively participate in or launch industry initiatives, foster stakeholder collaboration and lead industry changes.
- (4) Proactively conduct water risk assessment, consider possible long-term impacts of climate change and develop corresponding risk management and contingency plans.

3 2024 度水管理绩效及重点项目成果 2024 Annual water management performance and key project results

3.1 用水效率 Water use efficiency

指标 index	单位 unit	2024	备注 Remark
废水回用率 Wastewater reuse rate	%	5	Specific target not yet set
纯水系统产水率 Pure water system water production rate	%	84.5	
Unit product water consumption	Ton/kg		2024 target of 6% reduction from 2023 level achieved.

- 2024 年度主要开展的节水行动

The main water-saving actions to be carried out in 2024 are:

(1) Condensate recovery of continuous washing machine:

Reuse of cooling water, condensate water, process water saving and other projects reduce water waste.

Total amount of water reused in 2024 is 102,487m³. 2024/11 completed new project in WDF: hot water recovery (recovering hot water when producing dark colored fabrics). Monitoring the amount of water recovered, in Nov & Dec 361m³ water was recovered.

(2) Increase the reuse ratio of treated wastewater:

The factory has installed a RO (Reverse Osmosis) system to reuse treated wastewater.

the wastewater after treated by RO system is mixed with fresh water to supply to production process.

Potential water can be reused is 30%.

Design capacity of water reuse system is 1,500 -1800m³/day.

The total amount of RO water recovered in 2024 is 128,563 m³ (2024 temporarily shut down RO system for a few months to improve water pH quality, 2024/09 improved done and put the RO system back to normal).

(3) Dyeing process improvement:

Reduce the soaping temperature from 98°C to 60°C to save steam.

Reduce dyeing time, improve dyeing vat efficiency, and thus increase output.

Time saving: light color 30 to 60 minutes; medium color: 1-2 hours, dark color: 2-3 hours.

Water saving: save about 8m³ of water per ton.

Production quantity of 2024: 12,135 tons => saving around 97,080m³ water.

(4) Purchase new machinery to reduce water use:

From 07/2024, we have the new Singeing Machine which can reduce water 1500ton/month. The previous singeing machine needed to use water to cool the fabric after singeing, but with this new machine, we don't need to use water anymore.

3.2 废水排放 Wastewater Discharge

- 2024 Water Quality Test Results

排放口 Discharge port	污染物 Pollutants	许可浓度 Permitted concentration	排放浓度 (mg/L) Emission concentration (mg/L)			许可排放量 (吨) Permitted emissions (tons)	实际排放量 (吨) Actual emissions (tons)	超标情况 Exceeding the standard
			最小值 Minimum	最大值 Maximum	平均值 average value			
							Total wastewater discharge in 2024 is 2,272,548 m3	
Bao Minh Industrial park	Temperature	40	26.3	27.9	27.1	N/a	N/a	No
	pH	6-9	7.2	8.1	7.6	N/a	N/a	No
	Color	50	not detected	34	22	N/a	N/a	No
	Residual chlorine	0.81	< 0.6	<0.75	<0.75	N/a	N/a	No
	BOD5	24.3	6	21	14	N/a	31.8	No
	COD	60.72	10	57	34	N/a	77.25	No
	TSS	40.5	<15	28	14	N/a	31.8	No
	Amoni	4.05	0.07	0.93	0.5	N/a	1.136	No
	Total phosphorus	3.24	not detected	0.36	0.18	N/a	0.4	No
	Total Nitrogen	16.2	8.2	15.92	12.06	N/a	27.4	No
	Sulfua	0.162	not detected	<0.15	<0.15	N/a	<0.34	No
	Fe	0.81	not detected	0.25	0.25	N/a	0.568	No
	Cu	1.62	not detected	<0.06	<0.06	N/a	<0.136	No
	Cr (III)	0.162	not detected	<0.03	<0.03	N/a	<0.068	No
	Cr (VI)	0.0405	not detected	<0.009	<0.009	N/a	<0.02	No

	Total cyanide	0.0567	not detected	<0.009	<0.009	N/a	<0.02	No
	Mineral oils and grease	4.05	<0.3	<0.9	<0.3	N/a	<0.68	No
	Surfactant	4.05	<0.9	<0.9	<0.9	N/a	<2.044	No
	Coliform	3000 (MPN/100ml)	220	1900	1060	N/a	24083 MPN	No
	chloride	405	372	375	374	N/a	849.7	No
	Fluorua	4.05	0.5	0.63	0.565	N/a	1.28	No
	Total phenol	0.081	not detected	not detected	not detected	N/a	not detected	No
	Mn	0.405	<0.15	<0.15	<0.15	N/a	<0.34	No
	Zn	2.43	<0.3	<0.3	<0.3	N/a	<0.68	No
	Niken (Ni)	0.162	0.078	0.118	0.098	N/a	0.222	No
	Asen (As)	0.0405	not detected	not detected	not detected	N/a	not detected	No
	Cadimi (Cd)	0.0405	<0.0003	0.0004	0.0002	N/a	0.0045	No
	Pb	0.081	<0.045	<0.045	<0.045	N/a	0.102	No
	Hg	0.00405	not detected	not detected	not detected	N/a	not detected	No
	Total organochlorine pesticides	40.5	not detected	not detected	not detected	N/a	not detected	No
	Total organophosphorus pesticides	243	not detected	not detected	not detected	N/a	not detected	No
	Total PCB	0.00243	not detected	not detected	not detected	N/a	not detected	No
	Total radioactivity ϕ	0.1	not detected	not detected	not detected	N/a	not detected	No
	Total radioactivity β	1	not detected	not detected	not detected	N/a	not detected	No

- **2024 年度主要开展的水质改善行动：**

The main water quality improvement actions to be carried out in fiscal 2024 are as follows:

- (1) 软化水树脂罐补充及更换阳离子树脂。保证水质硬度达标。
- (1) Replenish and replace the cationic resin in the softening water resin tank. Ensure that the water hardness meets the standard.
- (2) 软水池和净化水池清洗，池壁和池底彻底清洗，去除池壁青苔和池底沉积物。
- (2) Clean the softening pool and the purified water pool, thoroughly clean the pool wall and the pool bottom, and remove the moss on the pool wall and the sediment on the pool bottom.
- (3) 启用盐水回收系统，制软置换后的盐水回收处理净化后循环再次使用，减少用盐量。
- (3) Enable the brine recovery system, recycle the brine after softening and replacement, purify it, and then recycle it for reuse to reduce the amount of salt used.

3.3 水管理、安全饮用水与卫生（WASH）和重要水相关区域的保护 Water management, safe drinking water and sanitation (WASH) and protection of critical water-related areas

公司在水管理制度、WASH 和重要水相关区域保护领域也积极开展行动，落实公司在可持续水管理方面的战略。

The company is also actively taking action in the areas of water management systems, WASH and protection of important water-related areas to implement the company's strategy for sustainable water management.

4 合规情况 Compliance Status

2024 年 1 月-12 月期间，公司无与水有关的违规事项。

From January to December 2024, the company had no water-related violations.

5 2025 年度水管理计划摘要 Summary of the 2025 Water Management Plan

- Reduce water usage

LONG-TERM ENVIRONMENTAL STRATEGY 2020 - 2025												
ST T	Hạng mục Item	Mục tiêu 2020-2025 Target	Kế hoạch chi tiết Detail plan	Target	Year Target	Bộ phận chịu trách nhiệm Responsible department	Ngày thực hiện Implement			Người phụ trách Respon sible	Người kiểm tra Checker	Trạng thái Status
							Từ From	Complete	Đến To			
WATER TARGET 2020-2025												
1	Water	Reduce 10% of average water use per kg of product: From 2020 to 2025	Condensate recovery of continuous washing machine	1500 ton/month	18,000	WWP, PRINT, WDF	01/2021	05/2022	12/2025	Mr Dat Mr Lu	Mr Wang	Completed - continue daily
			Recovery of cooling water from dyeing and finishing processes			WDF	02/2021	05/2021	12/2025	Mr Dat	Mr Wang	Completed - continue daily
			New WDF's project: recovery hot water from machine 130 (with fabric dark color)			WDF	09/2024	11/2024	12/2025	Mr Dat	Mr Wang	Completed - continue daily
2			Condensate recovery from fabric dyeing process	over 8000 ton/month	100,000	YDH	01/2021	05/2024	12/2025	Mr Xue	Mr Wang	Completed - continue daily
3			Reduce dyeing time: Reduce the soaping temperature from 98°C to 60°C to save steam; - Reduce dyeing time, improve dyeing vat efficiency, and thus increase output. - Time saving: light color 30 to 60 minutes; medium color: 1-2 hours, dark color: 2-3 hours. - Water saving: save about 8000 liters (8m³) of water per ton.	8 ton water/ton fabric (estimated production quantity 2025: 12,000 ton)	96,000	WDF	04/2021	12/2022	12/2025	Mr Dat	Mr Wang	Completed - continue daily
4			Buy new singeing machine: don't need to use water for cooling fabric anymore	Save 100ton/day (estimate 1 year operate 300 days)	30,000	WDF	01/2024	07/2024	12/2025	Mr Dat	Mr Wang	Completed - continue daily
5			Maintain stable RO system, supply water for WDF finishing workshop (capacity 1500ton/day)	1000ton/day (estimate 1 year operate 350days)	350,000	WWT	09/2024	12/2025	12/2025	Mr. Qu	Mr Wang	Completed - continue daily
6			Apply new plan on finshing process: PPC request combine 40,000m of fabric finishing at one time, washing dark fabric first, light fabric later to save the number of washing times	save 300ton/day (estimate 1 year operate 350days)	105,000	WDF	01/2025	12/2025	12/2025	Mr Dat	Mr Wang	In progress
7			Cooling + condensate water in knit dyeing workshop	200ton/day (working 350days)	70,000	KDF	01/2025	12/2025	12/2025	Mr Xiong	Mr Wang	In progress

- Improve water quality and management

领域 field	目标 Target	日常措施与改善项目 Daily measures and improvement projects	预计完成时间 Estimated time of completion
水质 Water Quality	确保废水排放稳定达标, 控制污染物总量 Ensure that wastewater discharge is stable and meets standards and control the total amount of pollutants	日常水质监测与设施运营监管 Daily water quality monitoring and facility operation supervision	2025/12/31
		生活废水污染物减量 Reduction of pollutants in domestic wastewater	2025/12/31
管理与制度 Management and system	提升团队管理意识 Improve team management awareness	开展可持续水管理培训 Conducting training on sustainable water management	持续开展, 每年组织一次员工培训 Ongoing, Organize employee training once a year 2025/12/31
安全饮用水及卫生 (WASH) Safe Drinking Water and Sanitation (WASH)	日常管理符合最佳实践要求 Daily management meets best practice requirements	对最佳管理实践进行自我评估 加强洗手间和饮水点的日常管理 Conduct self-assessment of best management practices Strengthen daily management of washrooms and drinking water points	2025/12/31

6 意见征求和反馈 Opinion solicitation and feedback

欢迎您通过以下链接回复问卷, 反馈您对我公司水管理的意见, 以及您对本地水资源的担忧。您也可以通过邮件直接与我们取得联系: thaonguyen@smart-shirts.com.vn

You are welcome to reply to the questionnaire through the following link to give us your opinions on our company's water management and your concerns about local water resources. You can also contact us directly by email thaonguyen@smart-shirts.com.vn