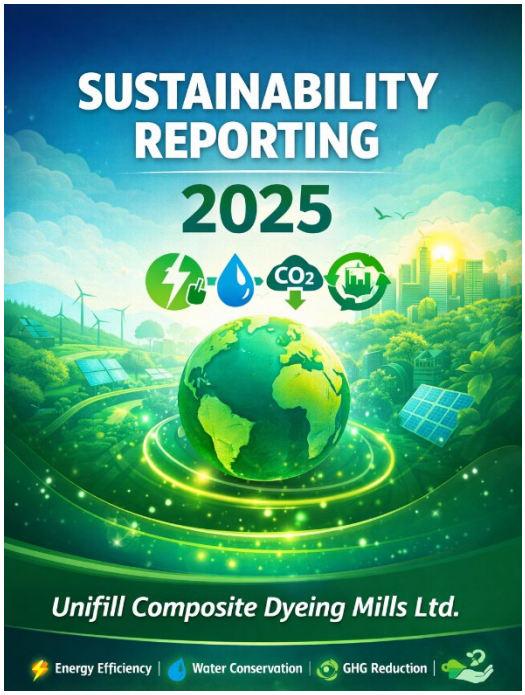
SUSTAINABILITY REPORTING 2025

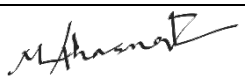
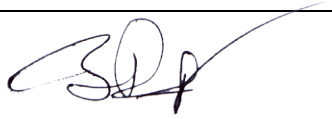
Unifill Composite Dyeing Mills Ltd.

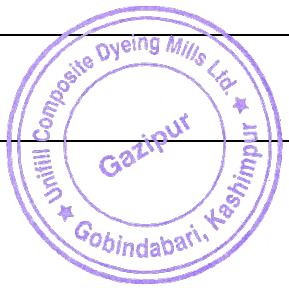


Issue Date: 01 Feb 2026
Ref. No: UCDML/2026/EMS/EMS-R-2025
Version No: 1.0

UNIFILL COMPOSITE DYEING MILLS LTD

Sustainability Reporting 2025

Code:	Ref. No: UCDML/2026/EMS/EMS-R-2025
Rev:	1.0
Date of version:	01 FEB 2026
Written & reviewed by:	
Written By	Engr. Md Abul Hasnat; Sr. Manager (M&U, Sustainability)
Signature	
Reviewer	Md Jashim Uddin; AGM (Admin, HR & Compliance)
Signature:	
Head of Operation:	
Factory Head:	Md. Sayedur Rahman; GM (Operation)
Head of Operation Signature:	
Management Approval	
Approved by:	Noor A Ahsan; Deputy Director (Unifill Group)
Approved Signature:	
Approved by:	Md. Noor-A-Amin (Tutul); CEO (Unifill Group)
Approved Signature:	



CONTENTS

1. INTRODUCTION

Unifill Composite Dyeing Mills Ltd. (UCDML) is a leading 100% export-oriented textile dyeing and printing facility in Bangladesh, established in 2008 under the Unifill Group and located in Kashimpur, Gazipur. With fully integrated operations including pretreatment, dyeing, finishing, and all-over printing, the company has developed a strong reputation for quality, innovation, and customer satisfaction.

As part of its long-term strategic vision, UCDML is committed to sustainable growth by minimizing environmental impact, ensuring safe and ethical working conditions, and maintaining compliance with international standards. The facility operates modern European machinery and maintains full laboratory support to ensure consistent product quality and process efficiency.

This Sustainability Report highlights the company's performance in environmental, social, and governance (ESG) aspects. It reflects UCDML's ongoing efforts to align with globally recognized frameworks such as Higg Index, OEKO-TEX® STeP, ISO 14001 and ISO 9001. The report demonstrates transparency in resource management, emissions control, worker welfare, and continuous improvement initiatives.

Through this report, UCDML reaffirms its commitment to responsible manufacturing practices, aiming to contribute to a more sustainable textile industry while meeting the expectations of global buyers and stakeholders.

2. POCILY ENVIRONMENT MANAGEMENT SYSTEM POLICY

Unifill Composite Dyeing Mills Ltd., a 100% export-oriented compliance factory, is fully committed to protecting the environment and ensuring environmental safety within its operations. Both the management and employees are dedicated to upholding the highest environmental standards.

The organization ensures that all its activities are conducted in accordance with relevant environmental legislation and the requirements set by the Department of Environment (DoE), Ministry of Environment, Forest, and Climate Change, Government of the People's Republic of Bangladesh. Unifill Composite Dyeing Mills Ltd. operates processes prescribed under the Orange Category of The Environment Conservation Rules, 2023 of the Government of the People's Republic of Bangladesh and fully complies with the requirements of DOE ECR act.

Unifill Composite Dyeing Mills Ltd is committed to following the below rules and regulations to ensure environmental performance and requirements –

- Bangladesh Environment Conservation Act, 1995 & The Environment Conservation Rules, 2023
- Noise Pollution (Control) Rules, 2006
- Ambient Air Quality Standards (Amendment), 2005 & Air Emission (Control) Rules, 2022
- Acid Control Act, 2002 & Dangerous Chemicals Control Act, 2004
- Boilers Act, 2022 (Act 07/08)
- Bangladesh Energy Regulatory Commission Act, 2003 & License Regulations, 2006
- Bangladesh Labour Act, 2006 (Amended 2018) & Labour Rules, 2015
- Medical Waste (Management & Disposal) Rules, 2008

The organization commits to the **prevention of pollution** and **continual improvement**. The company seeks to minimize waste production, promote recycling, reduce energy consumption, limit harmful emissions and collaborate with environmentally responsible suppliers whenever possible.

The EMS reflects a strong commitment to continually improving environmental performance. This is achieved by setting annual environmental improvement objectives and targets, which are regularly monitored, reviewed, and communicated throughout the organization to ensure all staff are dedicated to their achievement. Through its **Environmental Management System (EMS), aligned with ISO 14001:2015**, the company sets annual environmental objectives, which are regularly monitored and reviewed to drive performance. Stakeholder engagement, both internal and external, is key to achieving these goals, ensuring compliance with legal, regulatory, and buyer requirements, and reinforcing the company's dedication to sustainable practices and environmental protection.

To ensure the fulfillment of these commitments, the organization has implemented an Environmental Management System (EMS) that meets sustainability requirements.

3. POCILY ENVIRONMENT MANAGEMENT SYSTEM POLICY

Unifill Composite Dyeing Mills Ltd. is firmly committed to environmental protection, sustainability and responsible business practices. Our commitment is reflected in the following principles:

- ✓ **Compliance with Laws** 📜
  We strictly adhere to all applicable environmental legislation, rules, and regulations of Bangladesh, including requirements of the Department of Environment (DoE), and relevant international standards and buyer codes.
- ✓ **Pollution Prevention** 🛑
  We are dedicated to preventing pollution at the source, minimizing emissions to air , discharges to water and waste to land.
- ✓ **Waste Reduction & Recycling** ♻️
  We strive to minimize waste generation, promote reuse and recycling, and ensure safe disposal of hazardous and medical waste.
- ✓ **Energy & Resource Efficiency** ⚡
  We continuously improve energy efficiency, conserve water and raw materials, and reduce greenhouse gas emissions to support climate protection.
- ✓ **Safe Chemical Management** 🧪
  All chemicals are handled, stored, and disposed of responsibly, following legal requirements, Safety Data Sheets, and international buyer expectations (e.g., ZDHC).
- ✓ **Sustainable Operations** 🌳
  We promote cleaner production, efficient use of natural resources, and environmentally responsible supply chain practices.
- ✓ **Stakeholder Engagement** 🤝
  We actively engage employees, suppliers, customers, and communities in achieving sustainability goals and maintaining transparency.
- ✓ **Training & Awareness** 👷
  We ensure that all employees are aware of their environmental responsibilities through regular training, communication, and capacity building.
- ✓ **Monitoring & Continual Improvement** 📈
  We set measurable objectives and targets, monitor performance, and drive continual improvement in environmental management, aligned with ISO 14001:2015.

4. ENVIRONMENTAL OBJECTIVE

4.1. General

Target Type: Normalized Target & Absolute Target

Target Base Year: 2023

4.2. Normalized Environmental Objectives

All normalized environmental objectives have been developed in accordance with the SMART criteria—Specific, Measurable, Achievable, Relevant, and Time-bound. These targets are anchored in 2023 baseline performance and represent Unifill Composite Dyeing Mills Ltd.'s strategic direction toward continuous improvement and sustainable manufacturing through December 2028.

- **Energy Consumption (NG + CNG):** Reduce normalized natural gas and CNG consumption by **20%**, from a **2023 baseline of 0.839 m³ per kilogram** of fabric to **0.671 m³/kg by 2028**.
- **Electricity Usage**: Reduce normalized electricity consumption by **18%**, from **0.670 kWh/kg (2023)** to **0.550 kWh/kg by 2028**.
- **Total Power (Energy)**: Achieve a **30% reduction** in normalized overall energy consumption, decreasing from **0.945 kWh/kg (2023)** to **0.661 kWh/kg by 2028**.

- **Air Emission (GHG Intensity):** Reduce normalized greenhouse gas (GHG) emissions by **30%**, from **2.022 kg CO_2e/kg (2023)** to **1.416 kg CO_2e/kg by 2028**.
- **Water Usage:** Reduce normalized water consumption by **40%**, from **87.62 liters/kg (2023)** to **52.57 liters/kg by 2028**.
- **Chemical Usage:** Reduce normalized chemical usage by **20%**, from **0.389 kg/kg** (2023) to **0.311** kg/kg by 2028.
- **ZDHC Chemical Compliance**: Improve compliance with the ZDHC Gateway from **87.50%** to full **100%** usage of approved chemical inputs by **2026**.
- **Hazardous Waste Generation:** Reduce normalized hazardous waste per kg fabric by **20%**, from **0.016 kg/kg (2023)** to **0.013 kg/kg by 2028**.
- **Non-Hazardous Waste Generation:** Reduce normalized non-hazardous waste by **25%**, from **0.042 kg/kg (2023)** to **0.032 kg/kg by 2028**.

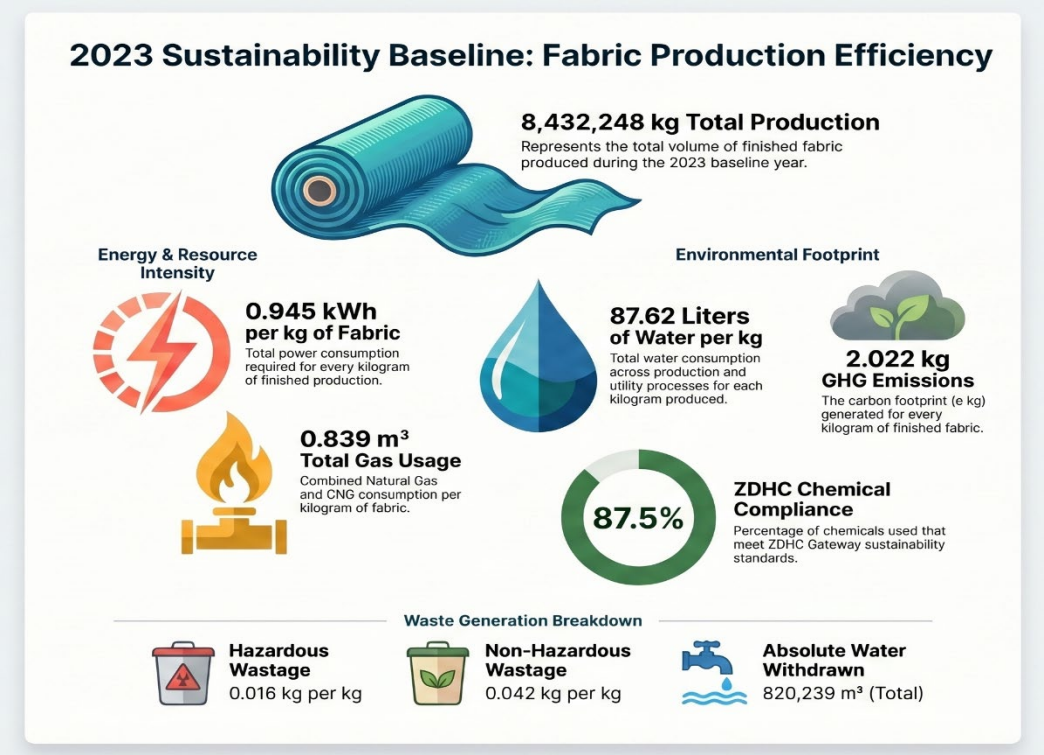
These targets are tracked annually through Unifill's Environmental Management System (EMS), aligned with ISO 14001 and Higg Facility Environmental Module (FEM) frameworks to ensure transparency, accountability, and ongoing improvement.

4.3. Absolute Environmental Objectives

Unifill's absolute environmental objectives are structured to achieve significant reductions in total resource consumption and emissions, reinforcing its commitment to responsible growth and environmental protection.

- **GHG Emissions**: Unifill Composite Dyeing Mills Ltd. has adopted a science-based near-term target consistent with the *Science Based Targets initiative (SBTi)* 1.5 °C pathway. Based on a 2023 baseline of **17,054 tCO_2e** (Scope 1 = 13,975 tCO_2e, Scope 2 = 3,079 tCO_2e), the company commits to reduce its absolute Scope 1 and Scope 2 GHG emissions by **33.6% by 2028**, reaching **11,324 tCO_2e**.
- **Water Consumption**: Reduce absolute water withdrawal from **820,239 m^3 (2023 baseline)** by **25%**, targeting **615,179 m^3 by December 2028**, based on improved water optimization, process control, and increased reuse.

5. BASELINE DATA



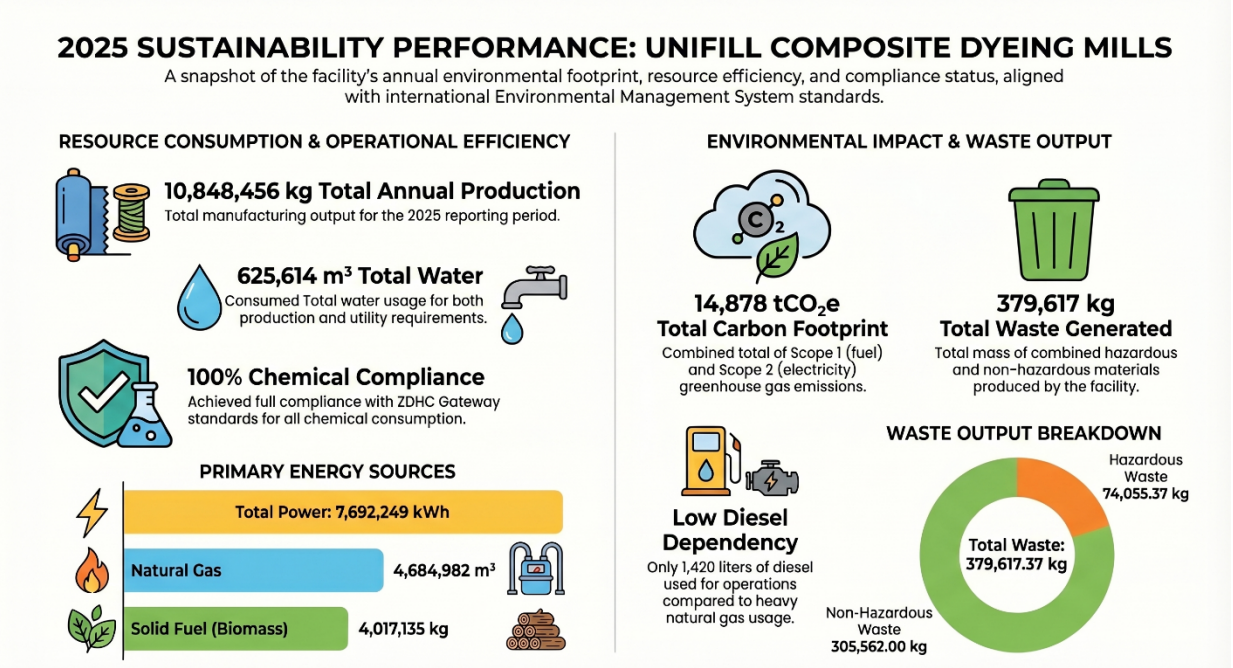
6. ANNUAL SUSTAINABILITY REPORT

Unifill Composite Dyeing Mills Ltd. is committed to minimizing environmental impact through efficient resource management, pollution control, and continuous improvement initiatives. The facility operates an Environmental Management System aligned with international standards and best practices to ensure sustainable operations.

The Annual Environmental Management System (EMS) Report and Key Performance Indicators (KPI) have been prepared for the period from **January 2025 to December 2025**. This report covers performance related to energy consumption, water usage, chemical consumption, greenhouse gas (GHG) emissions, and waste generation, based on verified operational data.

(a)	Annual Production	Total Production: 10,848,456.65 kg
(b)	Energy Consumption	Electricity Consumption: 4,859,803 kWh Natural Gas (NG): 4,684,982 m³ CNG Consumption: 1,559,420 m³ Total Power Consumption: 7,692,249 kWh Diesel Consumption: 1,420 liters Solid Fuel (Biomass): 4,017,135 kg

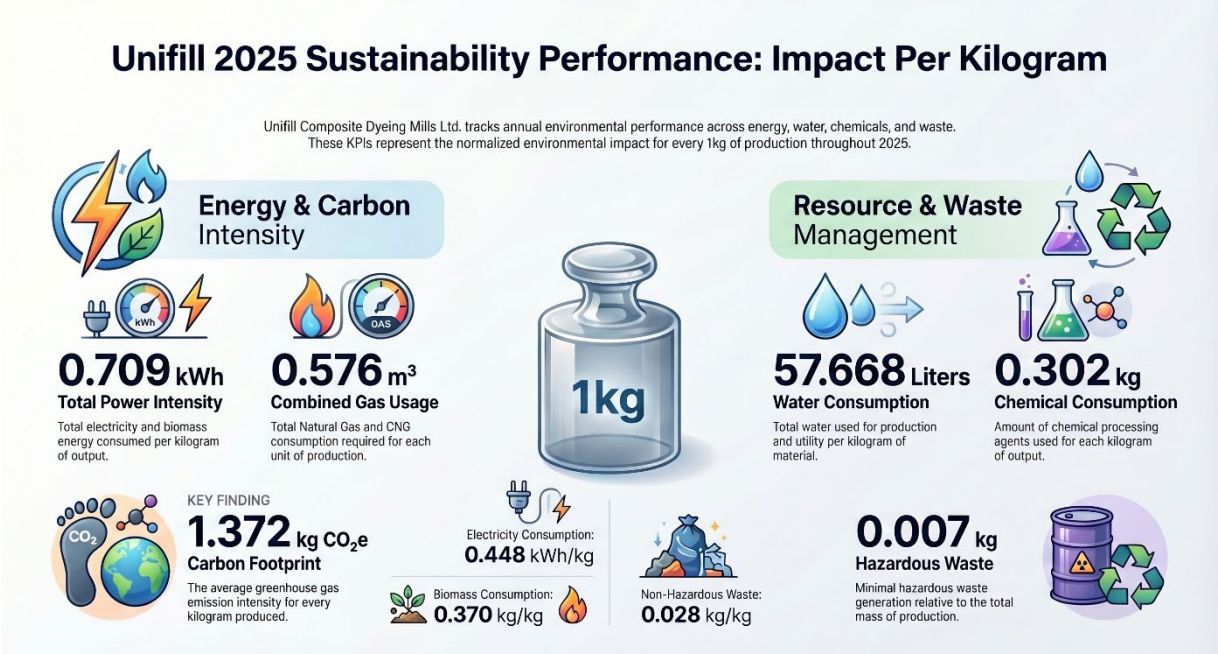
(c)	Vehicle Consumption	CNG Consumption: 58,223 m^3 Diesel Consumption: 32,323 liters Octan Consumption: 4,997 liters
(d)	Water Consumption	Water Extraction: 729,252 m^3 Water Consumption (Production & Utility): 625,614 m^3
(e)	Chemical Consumption	Total Chemical Consumption: 3,272,487.51 kg Chemical compliance (ZDHC Gateway): 100% compliance
(f)	Greenhouse Gas (GHG) Emissions	Scope 1 (Fuel – Gas/Diesel): 12,232.23 tCO_2e Scope 2 (Electricity): 2,646.65 tCO_2e
(g)	Waste Generation	Hazardous Waste: 74,055.37 kg Non-Hazardous Waste: 305,562.00 kg



7. ANNUAL SUSTAINABILITY KPI 2025

In 2025, the facility achieved significant performance levels in resource efficiency and environmental management, measured on a per kg of production basis. The electricity consumption was recorded at 0.448 kWh/kg, while natural gas (NG) consumption was 0.432 m^3/kg and CNG consumption was 0.144 m^3/kg, resulting in a combined NG and CNG usage of 0.576 m^3/kg. The total power consumption stood at 0.709 kWh/kg. Biomass consumption was measured at 0.370 kg/kg, indicating the use of alternative fuel sources. The greenhouse gas (GHG) emission intensity was calculated at 1.372 kg CO_2e/kg of production. In terms of chemical usage, the facility maintained a consumption level of 0.302 kg/kg. Hazardous waste generation was limited to 0.007 kg/kg, while non-hazardous waste was 0.028 kg/kg.

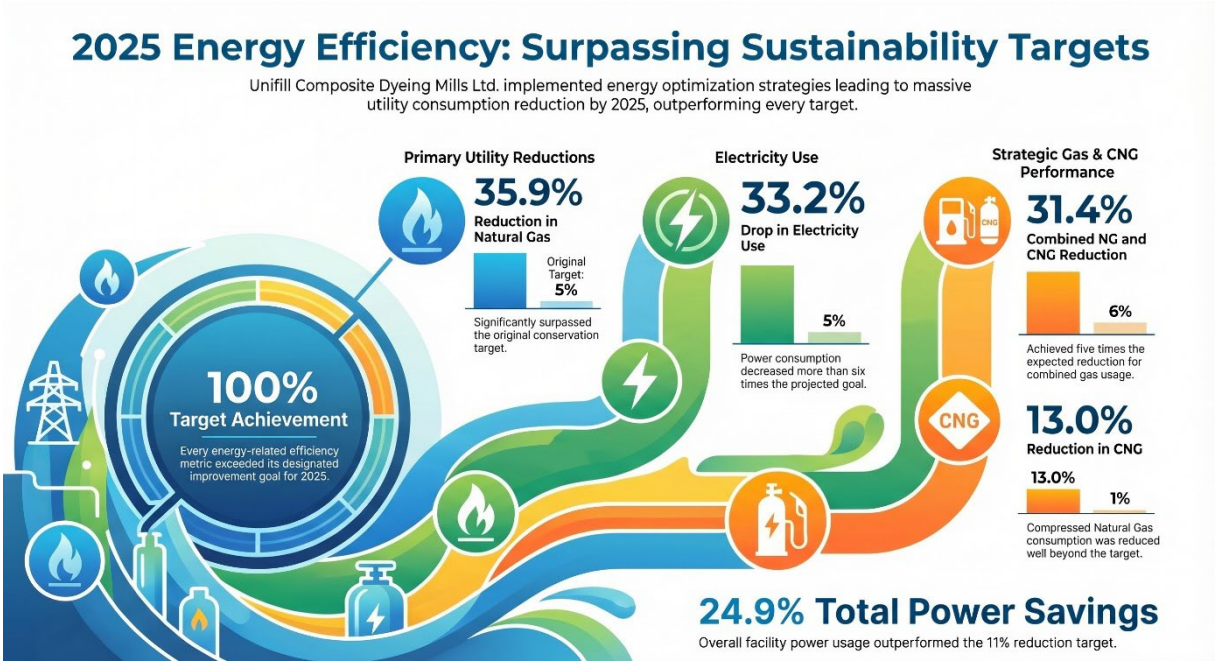
Additionally, the total water consumption, including both production and utility usage, was recorded at 57.668 liters per kg of production, reflecting ongoing efforts toward efficient water management.



8. ANNUAL REDUCTION

8.1. Energy Reduction Performance

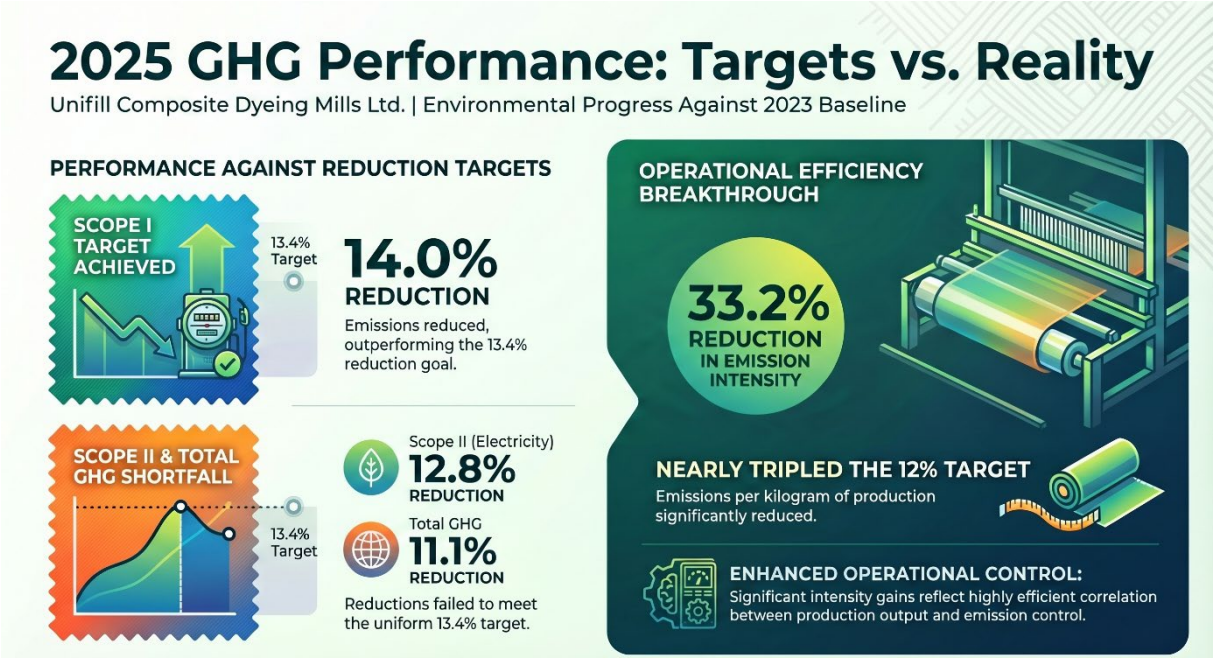
Based on the 2023 baseline, the facility has achieved significant improvement in energy efficiency by 2025.



Electricity consumption decreased by 33.2% against a target of 5%, while natural gas (NG) consumption was reduced by 35.9% compared to the 5% target. CNG consumption also showed a reduction of 13.0%, exceeding the 1% target. As a result, the combined NG and CNG consumption was reduced by 31.4% against the 6% target. Overall, total power consumption decreased by 24.9%, surpassing the target reduction of 11%. These results clearly demonstrate strong energy optimization and successful achievement of all energy-related targets.

8.2. GHG Emission Reduction

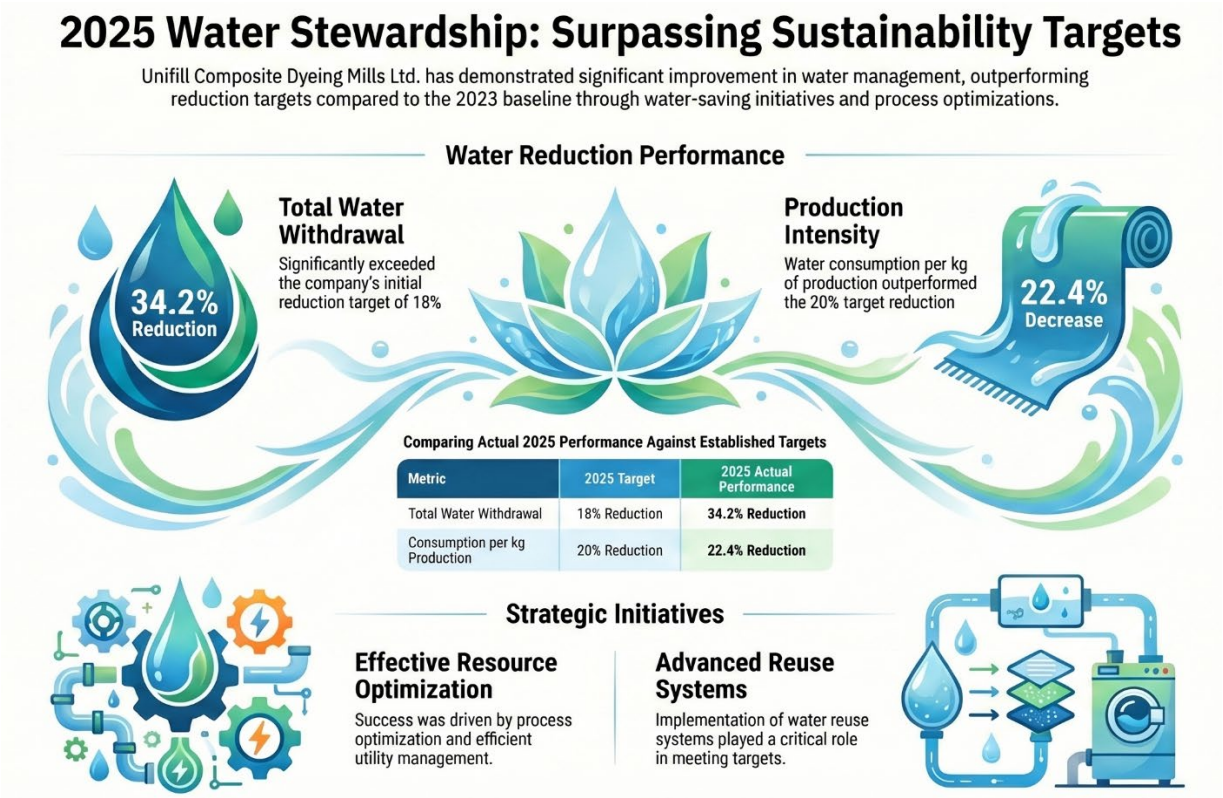
The facility has made notable progress in reducing greenhouse gas (GHG) emissions compared to baseline year 2023. Scope I emissions were reduced by 14.0%, successfully meeting the target of 13.4%. However, Scope II emissions decreased by 12.8%, which is slightly below the target, and therefore not fully achieved. As a result, total GHG emissions were reduced by 11.1%, which did not meet the overall target of 13.4%. Despite this, the GHG emission intensity (per kg production) was significantly reduced by 33.2%, exceeding the target of 12%, reflecting strong operational efficiency and improved emission control.



8.3. Water Reduction Performance

Water management performance has shown substantial improvement compared to the 2023 baseline. Total water withdrawal was reduced by 34.2%, significantly exceeding the target of 18%. Additionally, water consumption per kg of production decreased by 22.4%, surpassing

the target reduction of 20%. These results indicate effective implementation of water-saving initiatives such as process optimization, reuse systems, and efficient utility management.



8.4. Waste & Chemical Reduction

The facility has achieved excellent results in waste and chemical management.

Chemical consumption was reduced by 57.8%, far exceeding the 10% target. Also from 2025, 100% production chemical comply ZDHC MRSL compliance. Hazardous waste generation decreased by 33.2% against a 6% target, while non-hazardous waste was reduced by 32.2%, surpassing the 10% target. These achievements highlight the effectiveness of chemical control measures, process improvements, and waste minimization practices implemented across the facility.

9. FUTURE PLAN & ROADMAP

Unifill Composite Dyeing Mills Ltd. is committed to continuous improvement in sustainability performance and responsible manufacturing practices. Based on current achievements and long-term environmental objectives, the facility has established a strategic roadmap to further enhance resource efficiency and reduce environmental impact.

The company plans to implement a 1,145 kW solar power project to increase the share of renewable energy and reduce dependency on grid electricity. In addition, continuous efforts will be made to optimize energy consumption through process improvement, advanced technologies, and efficient equipment utilization.

To support climate action, the facility is committed to achieving its Science-Based Target by reducing absolute greenhouse gas (GHG) emissions in line with the 1.5°C pathway by 2028. Water conservation will remain a priority, with further enhancement of reuse systems, process optimization, and reduction of freshwater withdrawal.

The organization will continue to strengthen chemical management practices to ensure full compliance with ZDHC standards and maintain 100% approved chemical usage. Waste reduction initiatives will be further improved through recycling, process control, and responsible disposal practices.

Furthermore, Unifill will enhance employee awareness, stakeholder engagement, and digital monitoring systems to ensure real-time tracking of sustainability performance and continuous compliance with international standards.

10. CONCLUSION

Unifill Composite Dyeing Mills Ltd. has demonstrated strong performance in sustainability during 2025, achieving significant reductions in energy consumption, water usage, greenhouse gas emissions, chemical usage, and waste generation compared to the 2023 baseline.

The results reflect the effectiveness of the facility's Environmental Management System (EMS), continuous improvement initiatives, and commitment to sustainable manufacturing practices. While most targets have been successfully achieved, the organization acknowledges areas for further improvement, particularly in Scope II emissions, and remains committed to addressing these gaps.

Through transparent reporting and alignment with internationally recognized standards, the company continues to build trust with stakeholders, including customers, employees, and regulatory authorities.

Unifill Composite Dyeing Mills Ltd. reaffirms its commitment to environmental protection, social responsibility, and sustainable growth, aiming to contribute positively to the global textile industry while ensuring long-term business sustainability.