

富順纖維工業有限公司年度溫室氣體減排目標進展報告

報告年度：2024 年

1. 目標描述

本公司依據科學基礎減碳目標倡議 (SBTi) 標準制定減排目標，具體內容如下：

目標描述：

- 富順纖維工業有限公司承諾於 2029 年前，較 2022 年基準年減少範疇 1 與範疇 2 的絕對溫室氣體排放量 37.8%。
- 富順纖維工業有限公司亦承諾在同一時間範圍內，減少範疇 3 的絕對溫室氣體排放量 22.5%。

目標範圍包括來自生物能源原料的土地相關排放和去除。

2. 目標進展

2.1 目標基準年與報告年進展比較

項目	2022 (基準年)	2024 (報告年)	變動百分比
範疇 1 排放量 (噸 CO ₂ e)	6,169.17	4,730.57	-23%
範疇 2 排放量 (噸 CO ₂ e) Location Based	50,364.36	12,992.57	-74%
範疇 2 排放量 (噸 CO ₂ e) Market Based	50,364.36	8,048.57	-84%
範疇 2 生質能排放 (噸 CO ₂ e)	81.29	831.61	923%
範疇 3 排放量 (噸 CO ₂ e)	121,279.38	87,909.27	-28%

3. 顯著排放變動與目標審查

3.1 排放變動說明

- 本年度排放變動的主要驅動因素包括：
- 1.推動外購蒸氣低碳能源轉型,使用生質燃料替代煤炭。
- 2.提高再生能源使用量，採購 RECs

4. 減排行動計劃

4.1 已實施的減排計劃

計畫名稱	內容摘要	進度
推動外購蒸氣低碳能源轉型	100%使用生質燃料替代煤炭	已完成
再生能源使用	採購再生能源憑證 RECs	進行中

4.2 計劃中的減排措施

計畫名稱	內容摘要	預計完成時間
增加再生能源使用	逐年提升 RECs 採購量，以達成 40%再生能源使用率	2030

5. 溫室氣體排放盤查結果

本公司依據《溫室氣體議定書：企業標準》進行完整的溫室氣體盤查，涵蓋所有排放範疇（範疇 1、範疇 2 與範疇 3）。

5.1 溫室氣體排放總覽

排放範疇	2022 (基準年)	2024 (報告年)
範疇 1 排放量 (噸 CO ₂ e)	6,169.17	4,730.57
範疇 2 排放量 (噸 CO ₂ e) Location Based	50,364.36	12,992.57
範疇 2 排放量 (噸 CO ₂ e) Market Based	50,364.36	8,048.57
範疇 2 生質能排放 (噸 CO ₂ e)	81.29	831.61
範疇 3 排放量 (噸 CO ₂ e)	121,279.38	87,909.27

5.2 範疇 3 類別細分

範疇 3 類別	2022 (基準年)	2024 (報告年)
1.購買產品和服務	71,618.54	61,314.51
2.資本貨物	11.12	23.05
3.燃料與能源相關活動	24,053.12	11,548.06
4.上游運輸與配送	238.87	405.63
5.營運產生的廢棄物	310.53	325.78
6.商務旅行	14.28	73.69
7.員工通勤	254.06	105.77
8.租賃資產	N/A	N/A
9.下游運輸與配送	1,421.44	635.88
10.已售產品的加工	19,667.98	11,348.15
11.已售產品的使用	N/A	N/A
12.已售產品的報廢處理	3,689.44	2,128.76
13.下游租賃資產	N/A	N/A
14.特許經營	N/A	N/A

範疇 3 類別	2022 (基準年)	2024 (報告年)
15.投資	N/A	N/A

結論與展望

富順纖維工業有限公司致力於實現科學基礎減碳目標，並將持續改進減排策略，強化供應鏈參與，確保 2029 年前達成減排目標。我們將依據 SBTi 標準持續監測、審查與報告目標進展，並探索更多低碳技術與解決方案，以加速邁向淨零轉型。

聯絡資訊

如需進一步了解本報告或本公司減碳行動，請聯繫：

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FU HSUN Fiber Industries Co., Ltd.

Annual Greenhouse Gas Emission Reduction Target Progress Report

Reporting Year: 2024

1. Target Description

Our company has established emission reduction targets based on the Science-Based Targets initiative (SBTi) standards, with the specific goals as follows:

Target Description:

FU HSUN Fiber Industries Co., Ltd. commits to reducing absolute greenhouse gas (GHG) emissions from Scope 1 and Scope 2 by 37.8% by 2029, compared to the 2022 base year.

The company also commits to reducing absolute Scope 3 emissions by 22.5% within the same timeframe.

*The target boundary includes land-related emissions and removals from bioenergy feedstocks.

2. Target Progress

2.1 Comparison of Baseline Year and Reporting Year Progress

Item	2022 (Baseline Year)	2024 (Reporting Year)	Percentage Change
Scope 1 Emissions (tons CO ₂ e)	6,169.17	4,730.57	-23%
Scope 2 Emissions (tons CO ₂ e) - Location Based	50,364.36	12,992.57	-74%
Scope 2 Emissions (tons CO ₂ e) - Market Based	50,364.36	8,048.57	-84%
Scope 2 Biomass Energy Emissions (tons CO ₂ e)	81.29	831.61	923%
Scope 3 Emissions (tons CO ₂ e)	121,279.38	87,909.27	-28%

3. Significant Emission Changes and Target Review

3.1 Explanation of Emission Changes

The main drivers of emission changes this year include:

- Promoting the transition to low-carbon energy for purchased steam by using biomass fuel to replace coal.
- Increasing the use of renewable energy by purchasing Renewable Energy Certificates (RECs).

4. Emission Reduction Action Plan

4.1 Implemented Reduction Plans

Plan Name	Summary	Progress
Low-carbon energy transition of purchased steam.	100% use of biomass fuel to replace coal.	Completed
Renewable Energy Usage	Purchase Renewable Energy Certificates (RECs)	In Progress

4.2 Planned Reduction Measures

Plan Name	Summary	Estimated Completion Year
Increase Renewable Energy Usage	Gradually increase the purchase of RECs to achieve a 40% renewable energy usage rate.	2030

5. Greenhouse Gas Inventory Results

The company conducts a complete GHG inventory following the **Greenhouse Gas Protocol:**

Corporate Standard, covering all emission scopes (Scope 1, 2, and 3).

5.1 Overview of Greenhouse Gas Emissions

Emission Scope	2022 (Baseline Year)	20XX (Reporting Year)
Scope 1 Emissions (tons CO ₂ e)	6,169.17	4,730.57
Scope 2 Emissions (tons CO ₂ e) - Location Based	50,364.36	12,992.57
Scope 2 Emissions (tons CO ₂ e) - Market Based	50,364.36	8,048.57
Scope 2 Biomass Energy Emissions (tons CO ₂ e)	81.29	831.61
Scope 3 Emissions (tons CO ₂ e)	121,279.38	87,909.27

5.2 Breakdown of Scope 3 Emissions by Category

Scope 3 Category	2022 (Baseline Year)	2024 (Reporting Year)
1.Purchased Goods and Services	71,618.54	61,314.51
2.Capital Goods	11.12	23.05
3.Fuel- and Energy-Related Activities	24,053.12	11,548.06
4.Upstream Transportation & Distribution	238.87	405.63
5.Waste Generated in Operations	310.53	325.78
6.Business Travel	14.28	73.69

Scope 3 Category	2022 (Baseline Year)	2024 (Reporting Year)
7.Employee Commuting	254.06	105.77
8.Upstream Leased Assets	N/A	N/A
9.Downstream Transportation & Distribution	1,421.44	635.88
10.Processing of Sold Products	19,667.98	11,348.15
11.Use of Sold Products	N/A	N/A
12.End-of-Life Treatment of Sold Products	3,689.44	2,128.76
13.Downstream Leased Assets	N/A	N/A
14.Franchises	N/A	N/A
15.Investments	N/A	N/A

Conclusion and Outlook

FU HSUN Fiber Industries Co., Ltd. is committed to achieving science-based carbon reduction targets and will continue to enhance emission reduction strategies, strengthen supply chain engagement, and ensure the successful achievement of its reduction targets by 2029. The company will continue to monitor, review, and report progress in accordance with SBTi standards, while exploring additional low-carbon technologies and solutions to accelerate the transition to net zero.

Contact Information

For further information about this report or the company's carbon reduction actions, please contact:

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