

Independent Verification Opinion

Verification Opinion No.:
C764596-2024-AG-TWN-DNV

Issued Place and Date:
Taipei, 18 June, 2025

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This is to verify initiate reporting of Greenhouse Gas Inventory Management Report (2024) of

Tainan Spinning Co., Ltd.

Scope of Verification

DNV Business Assurance (DNV) has been commissioned by Tainan Spinning Co., Ltd. (hereafter "the Organization") to perform a verification of the greenhouse gas statements of Greenhouse Gas Inventory Management Report (2024) (hereafter the "Inventory Report") in Taiwan, R.O.C. with respect to the sites listed as below.

Site	Address
Headquarters	6F., 9F., 10F., No.398, Sec.1, Zhonghua E. Rd., East Dist., Tainan City, Taiwan (R.O.C.)
Headquarters – Old Office	No.511, Yunong Rd., East Dist., Tainan City, Taiwan (R.O.C.)
Headquarters – Sinshih Plant	No.111, Zhonghua Rd., Xinshi Dist. Tainan City Taiwan (R.O.C.)
Headquarters – Taipei Office	10F., No.9, Songgao Rd., Xinyi Dist. Taipei City Taiwan (R.O.C.)
Rende plant	No.45, Ln.862, Sec.2, Zhongzheng Rd., Rende Dist., Tainan City, Taiwan (R.O.C.)
Taizi plant	No.419, Sec.3, Zhongzheng Rd., Rende Dist., Tainan City, Taiwan (R.O.C.)

The Reporting Boundary for the verification including direct GHG emissions and removals, indirect GHG emissions from imported energy, indirect GHG emissions from transportation and indirect GHG emissions from products used by the Organization. The further descriptions for the Reporting Boundary listed in Appendix A.

Verification Criteria and GHG Programme

The verification was performed on the basis of Financial Supervisory Commission Sustainable Development Roadmap Scheme and ISO 14064-1:2018, CNS 14064-1:2021 as well as criteria given to provide for consistent GHG emission identification, calculation, monitoring and reporting. The verification was conducted in accordance with ISO 14066:2023, ISO 14065:2020, ISO14064-3:2019.

Verification Opinion

It is DNV's opinion that the Inventory Report (2024), which was published on 13 June, 2025 (Ver. 2), is free from material discrepancies in accordance with the verification criteria identified as stated above. The opinion is decided based on the following approaches,

- For the Direct (Category 1) GHG emissions and Indirect GHG emissions from imported energy (Category 2), the reliability of the information within the Inventory Report (2024) was verified with reasonable level of assurance.
- For the other indirect GHG emissions, the involved information was verified with limited level of assurance.

Also, the GHG information as stated in Appendix B has been verified during the process.

GHG Verifier :
Jia Hong Jesse Wu



For the issuing office:
DNV Business Assurance Co., Ltd.



Management Representative

The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.

Lack of fulfilment of conditions as set out in the Verification Agreement may render this Verification invalid. This Verification Opinion is based on the information made available to us and the engagement conditions detailed above. Hence, DNV cannot guarantee the accuracy or correctness of the information. DNV cannot be held liable by any party relying or acting upon this Verification Opinion.

The issuing office : 29Fl., No. 293, Sec. 2, Wenhua Rd., Banqiao District, New Taipei City 220, Taiwan Tel.: +886-2-82537800. <https://www.dnv.com/tw/>
DNV ZNATW-OP-F50, Rev.14, 2025-03

Supplement to Verification Opinion

Process and Methodology

The reviews of the Inventory Report and relevant documents, and the subsequent follow-up interviews have provided DNV with sufficient evidence to determine the fulfilment of stated criteria.

Quantification of Greenhouse Gas Emission

The Inventory Report covering the period 1st January, 2024 to 31st December, 2024, it is DNV's opinion that GHG emissions and removals identified within the Reporting Boundary has been included in the Inventory Report as claimed in accordance with the verification criteria identified as stated above, and results in quantification of GHG emissions that are real, transparent and measurable.

Organizational Boundary of Verification

☐ Financial Management Control; ☒ Operational Management Control; ☐ Equity Share

GHGs Verified

☒ CO₂ ☒ CH₄ ☒ N₂O ☒ HFC_s ☒ PFC_s ☒ SF₆ ☒ NF₃

Quantification of Emissions (in tonnes CO₂e)

The Global Warming Potential (GWP) defined in IPCC AR6(2021) has been chosen and correctly referred by the Organization.

Category	Headquarters	Rende plant	Taizi plant	Total
1: Direct emissions	84.3703	11,456.3115	22,660.8273	34,201.5091
2: Imported energy indirect emissions*	451.2580	10,879.2935	51,479.8128	62,810.3643
3: Indirect GHG emissions from transportation	96.3975	9,018.1052	15,916.5482	25,031.0509
4: Indirect GHG emissions from products used by organization	112.4703	57,991.9438	310,191.8165	368,296.2306
5: Indirect GHG emissions associated with the use of products from the organization	Non Significant			
6: Other Emission Sources	Non Significant			
Category 1~6 Emission				490,339.155

(*The Imported Energy Indirect Emissions was calculated based on 2024 electricity emission factor of 0.474 kg CO₂e/kwh, which was announced by Energy Administration, Ministry of Economic Affairs.)

Type of Opinion

☒ unmodified ☐ modified ☐ adverse

APENDIX A

The Reporting Boundary of Tainan Spinning Co., Ltd. Greenhouse Gas Inventory Management Report (2024)

Category	Reporting Boundary
Direct GHG emissions and removals	Mainly from fuel consumption, other GHG sources or sinks inside organizational boundaries and that are owned or controlled by the organization.
Indirect GHG emissions from imported energy	The amount of greenhouse gas emissions produced by the input of electricity and energy.
Transportation	Upstream transportation and distribution-Weight of in-coming goods and raw material report. Distance of transportation from supplier. Employee commuting- Transportation of employees between their homes and their worksites, includes vehicles and motorcycles or public transportation. Business travel-business Trip by Taiwan High-Speed Rail, Taiwan Rail way, MRT. Downstream transportation and distribution- Distance from shipment of the product to the customer's end.
Products used by organization	Purchased goods and services. Emissions from the disposal of solid and liquid waste- Clearance and Transportation Contract.
The scope of other indirect emissions (other than Imported Energy with specified/limited list of sources) was defined by the Organization's own pre-determined criteria for significance of indirect emissions, considering the intended use of the GHG inventory.	

APENDIX B

For Direct emissions and removals, quantified separately for each GHG as below:

GHG Type	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	NF ₃	Total
Emissions (ton CO ₂ e)	31,784.0813	2,045.7816	19.1919	352.4543	0.0000	0.0000	0.0000	34,201.5091
Proportion (%)	92.93%	5.98%	0.06%	1.03%	0.00%	0.00%	0.00%	100%

The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.

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