

Greenhouse Gas Verification Opinion

The inventory of Greenhouse Gas emissions in year 2024 of

NAN PAO RESINS CHEMICAL CO. LTD.

No. 519, Zhongshan Rd, Xigang Dist.,
Tainan City 723, Taiwan

has been verified in accordance with ISO 14064-3:2019 as
meeting the requirements of

ISO 14064-1:2018

Opinion Type: Modified

Direct emissions

8,129.2056 tonnes of CO₂e

Indirect emissions

188,965.5023 tonnes of CO₂e

Direct emissions and indirect emissions

197,094.708 tonnes of CO₂e

Authorized by



Stephen Pao

Business Assurance Director

Date: 16 September 2025

Version 1

TGP56B-15-1 2501

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Validation and Verification

VB002

The emission of each category is described as below:

Unit: tonnes of CO₂e

Reporting Boundaries			GHG Emissions
Inventory categories		Description	
Direct emissions		Direct emissions from stationary combustion	7,351.9310
		Direct emissions from mobile combustion	266.2628
		Direct process emissions and removals from industrial processes	0.0000
		Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	511.0118
		Direct emissions and removals from land use, land use change and forestry	0.0000
Indirect emissions	Imported energy	Imported electricity	10,478.5623
	Transportation	Emissions from upstream transport and distribution for goods(Direct materials account for 80% of the purchase amount, Packaging materials items whose purchase amount accounts for more than 65%, Wooden pallets (commonly purchased specifications 100*120 (122) and 114*114)) Employee commuting emissions	1,582.5166
	Products used by an organization	Energy-Related Activities (Not Included in category 2)(imported electricity, steam, gasoline, diesel fuel, natural gas) Goods purchased(Direct materials account for 80% of the purchase amount, Packaging materials items whose purchase amount accounts for more than 65%, Wooden pallets (commonly purchased specifications 100*120 (122) and 114*114)) Emissions from the disposal of solid and liquid waste(include transported)	176,904.4234
	Associated with the use of products from the organization	Unquantified	-
	Other sources	Unquantified	-
Direct emissions and indirect emissions			197,094.708

SGS has been contracted for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2019

as provided by NAN PAO RESINS CHEMICAL CO. LTD. (hereinafter referred to as "NAN PAO Group"), No. 519, Zhongshan Rd, Xigang Dist., Tainan City 723, Taiwan, in the GHG Statement in the form of GHG report.

Roles and responsibilities

- The management of NAN PAO Group is responsible for the organization's GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information and the reported GHG emissions.
- The verification was based on the verification scope, objectives and criteria as agreed on 03 May 2024.
- Verification Criteria: ISO 14064-1:2018
- Verification Period: 01 July 2025 to 04 August 2025.

Scope

- GHG information for the following period was verified: 01 January 2024 to 31 December 2024
- Location/boundary of the activities:
 - No. 519, Zhongshan Rd, Xigang Dist., Tainan City 723, Taiwan
 - No. 521, Zhongshan Rd, Xigang Dist., Tainan City 723, Taiwan
 - No. 508,510, Zhongshan Rd, Xigang Dist., Tainan City 723, Taiwan
 - No. 506, Zhongshan Rd, Xigang Dist., Tainan City 723, Taiwan
 - No. 48, Sec. 1, Zhongshan Rd., Guiren Dist., Tainan City 71142, Taiwan
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
 - Direct emissions: Greenhouse Gas Emission Factor, MOENV(2024.02.05).
 - Indirect emissions:
 - Electricity emission factor is 0.474 kgCO₂e/kwh (Announced by Energy Administration, Ministry of Economic Affairs in 2025).
 - The secondary database has Carbon Footprint Information Platform, Ecoinvent V3.

- The level of assurance for category 1 and category 2 agreed is that of reasonable assurance. Category 3 till category 6 agreed is that of limited assurance.
- Materiality : 5%
- The version of inventory sheet: 20250806
- The version of GHG statement: 20250806
- Intended user of the verification opinion: Private

Objective

The purposes of this verification exercise are, by review of objective evidence, to independently review:

- Whether the GHG emissions are as declared by the organization's GHG statement
- The data reported are accurate, complete, consistent, transparent and free of material error or omission.

Conclusion

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions information and the controls in place to mitigate these. Our examination includes assessment, on a test basis, of evidence relevant to the amounts and disclosures in relation to the organization's reported GHG emissions. We planned and performed our work to obtain the information, explanations and evidence that the GHG emissions are free from material misstatement.

- The greenhouse gas emissions is 197,094.708 metric tonnes of CO₂ equivalent
- The emissions from the combustion of biomass is 0.0000 metric tonnes of CO₂ equivalent

The emission of each category is described as below:

Unit: tonnes of CO₂e

Reporting Boundaries			GHG Emissions
Inventory categories		Description	
Direct emissions		Direct emissions from stationary combustion	7,351.9310
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		Direct emissions and removals from land use, land use change and forestry	0.0000
Indirect emissions	Imported energy	Imported electricity	10,478.5623
	Transportation	Emissions from upstream transport and distribution for goods(Direct materials account for 80% of the purchase	1,582.5166

		amount, Packaging materials items whose purchase amount accounts for more than 65%, Wooden pallets (commonly purchased specifications 100*120 (122) and 114*114)) Employee commuting emissions	
	Products used by an organization	Energy-Related Activities (Not Included in category 2)(imported electricity, steam, gasoline, diesel fuel, natural gas) Goods purchased(Direct materials account for 80% of the purchase amount, Packaging materials items whose purchase amount accounts for more than 65%, Wooden pallets (commonly purchased specifications 100*120 (122) and 114*114)) Emissions from the disposal of solid and liquid waste(include transported)	176,904.4234
	Associated with the use of products from the organization	Unquantified	-
	Other sources	Unquantified	-
Direct emissions and indirect emissions			197,094.708

- The opinion of SGS is modified in accordance with the following described circumstances.
 - The verifier has sufficient and appropriate evidence to support the material emissions, removals, or storage.
 - The verifier applies appropriate criteria for the material emissions, removals, or storage.
 - When the verifier intends to rely on relevant controls, the effectiveness of those controls has been assessed.
 - The verifier, applying the ISO 14064-1:2018 standard, presents the following findings. After adjustments and corrections, no material errors were identified.
 - Adequate evidence has been provided to support the amended opinions.
 - The activity data has been revised based on supporting evidence.
 - GHG report/inventory has been supplemented and revised based on supporting evidence
- Retention Limitation:
 - NA

Confidentiality

The reports and attachments may contain relevantly confidential information of the clients. In addition to being submitted as governmental application or certification documents, the reports and attachments are not allowed to be edited, duplicated, or published without the clients' agreement in written form.

Avoidance of Conflict of Interest

The reports and attachments are completely complied with the standards and procedures that related authorities established. The reports and attachments of auditing process are conduct with fairness and honesty. If not, the auditing institution not only has to bear the relevant compensation duties, but also to receive legal charge and punishment.

This opinion shall be interpreted with the GHG statement of NAN PAO Group as a whole.

Verifier Group

Above opinions coincide with auditing process with fairness and impartiality and aim at the emission of year 2024 of clients.

Lead Verifier:

Carol Chen

Verifier:

Mike Huang

Karly Cheng

Verifier

Chih Yuan Kuo

Chris Hsia

Verifier

Steven Yen

William Li

Note: This opinion is issued, on behalf of Client, by SGS Taiwan Ltd. ("SGS") under its General Conditions for Greenhouse Gas Verification Services available at http://www.sgs.com/terms_and_conditions.htm. The findings recorded hereon are based upon an audit performed by SGS. A full copy of this opinion, the findings and the supporting GHG Statement may be consulted at NAN PAO RESINS CHEMICAL CO. LTD., No. 519, Zhongshan Rd, Xigang Dist., Tainan City 723, Taiwan, This opinion does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.