



# Certificate

Certificat

Report No. : (TH24-638 / Version 1)

## Greenhouse Gas Verification Report Opinion THGHG24638-00

Verification Scope: KUANGTAI METAL INDUSTRIAL CO., LTD. Guantian Plant (Represent)  
No. 20, Gongye Rd., Guantian Dist., Tainan City , Taiwan (R.O.C.)  
The information of other sites are listed on the subsequent page.

Verification Criteria: ISO 14064-1 : 2018

Verification Objectives : According to ISO 14064-3:2019, AFNOR Asia Ltd. (AFNOR ASIA) confirms that the GHG statement (GHG inventory report) of the above-mentioned organization(s) is reported in accordance with the verification criteria agreed by both parties. AFNOR ASIA performs the verification with an objective and fair position and principle (relevant, complete, consistent, accurate, and transparent).

Data Period : From 01 01, 2024 to 12 31, 2024 (The data being viewed is historical in nature)

Verification Data : Direct GHG Emissions (Category 1): 2,114.3925 tCO<sub>2</sub>e  
Energy Indirect GHG Emissions (Category 2): 27,904.3398 tCO<sub>2</sub>e  
Indirect GHG Emissions (Category 3~6): 86,982.9314 tCO<sub>2</sub>e

Global Warming Potential (GWP) : Refer to IPCC The 6-assessment report 2021 Year

Statement Basis : This statement must be interpreted as a whole with the following.

GHG Inventory Report (Version :	2	; Date :	10 07, 2025	)
GHG Inventory (Version :	2	; Date :	10 07, 2025	)

Materiality : 5% (Category 1 and Category 2 )

Type of Opinion : Unqualified Qualified (see the subsequent page ) Disclaim the issuance

Verification Conclusion: To confirm that the organization submits a GHG statement in accordance with the requirements of the verification criteria agreed by both parties, and fairly presents the GHG data and related information, which are consistent with the verification scope, objectives and criteria agreed by both parties.

Declares that the reasonable assurance level of the inventory data is Category 1 and Category 2; the limited assurance level of the inventory data is Category 3 to Category 6.

Date of Issuance: 10 23, 2025

APPROVED BY

Dr. August Tsai  
Director for Certification  
ON BEHALF OF  
AFNOR ASIA

113-2024/00

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**The Geographical Location of Multiple Sites :**

Site	Address
Guantian Plant	No. 20, Gongye Rd., Guantian Dist., Tainan City , Taiwan (R.O.C.)
Guantian Plant No. 2	No. 35, Gongye Rd., Guantian Dist., Tainan City , Taiwan (R.O.C.)
Jingtai Plant	No. 36, Jianye Rd ., Guantian Dist., Tainan City , Taiwan (R.O.C.)

**Emissions Data for Each Category :**

Category	Description of Content	GHG Emissions (tCO <sub>2</sub> e)	Note
(Category 1) Direct GHG emissions	Stationary emissions, Mobile emissions, Fugitive emissions	2,114.3925	
(Category 2) Indirect GHG emissions from imported energy	Electricity	27,904.3398	Location-based standard
(Category 3) Indirect GHG emissions from transportation	Upstream transportation of raw materials, Employee commuting	400.2387	
(Category 4) Indirect GHG emissions from products used by the organization	Purchased goods, Waste treatment	86,582.6926	
(Category 5) Indirect GHG emissions associated with the use of products from the organization	NA	NA	
(Category 6) Indirect GHG emissions from other sources	NA	NA	

**Biomass Burning Emission : 0.0000 tCO<sub>2</sub>e**

Note: The presentation of data after the decimal point in this Verification Report Opinion shall follow the definition of the inventory procedures and other documents of the organization being verified; if not defined, it shall be presented by the provisions of the organizational level of MOENV: 4 decimal places.

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### Other Related Verification Information

Organization Boundaries :	Operational control
GHG Type :	Carbon dioxide (CO <sub>2</sub> ), Methane (CH <sub>4</sub> ), Nitrous oxide (N <sub>2</sub> O), Hydrofluorocarbon (HFCs), Perfluorocarbon (PFCs), Sulfur hexafluoride (SF <sub>6</sub> ), Nitrogen trifluoride (NF <sub>3</sub> )
Purpose of Intended Use:	Voluntarily understanding the status of greenhouse gas emissions as a basis for developing reduction strategies. (This statement of responsibility applies only to the purpose of intended use mentioned above and not to any other purpose.)
Purchased Power Factor:	Refer to the 2024 annual power factor announced by the Energy Administration, Ministry of Economic Affairs on 04 14, 2025. Refer to the 2024 annual power factor announced by the Taiwan Cogeneration Corporation Guantian Plant, Ministry of Economic Affairs on 06 23, 2025
Data Sources :	<input checked="" type="checkbox"/> The primary data is collected from on-site operation activities. <input checked="" type="checkbox"/> Category 3~6 emissions are calculated with estimated data. The secondary data sources are: Taiwan MOENV Carbon Footprint <input type="checkbox"/> Others :
Verification Method:	<input checked="" type="checkbox"/> On-site <input type="checkbox"/> Other _____
Qualified Opinion :	NO
Others :	NO
Verification Date :	09 11, 2025 10 01, 2025
Report Date & Version : :	10 07, 2025, Version : 01



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## Verification Team and Technical Review

Lead Verifier : He-Yuan Chen

Signature : He Yuan Chen

Verifier : Paul Chen

Signature : Paul Chen.

Independent Review : Shih-Ting Tseng

Signature : Shih-Ting Tseng.

## Verification Processes

AFNOR ASIA is based on risk assessment methods and controls. Evidence collection procedures are including pre-trip assessment, on-site visits, interviews with site personnel, confirmation of documented evidence provided, sampling of emission data, evaluation of data management systems, confirming the collection and compilation of emission data, analysis between production and energy consumption, and confirmation of whether the terms of the agreement referred to are properly applied.

## Roles and Responsibilities

The verified organization is responsible for preparing and submitting a GHG statement in accordance with the verification criteria. This responsibility includes the planning, implementation and maintenance of data management systems related to GHG declarations, GHG inventory and GHG inventory reports.

AFNOR ASIA provides independent third-party verification of the reported GHG emissions and issues verification opinions for the organizational GHG emissions. The verification team is independent and impartial, and there is no conflict of interest.