



Report no.: (TH-000 / version 1)

Greenhouse Gas Verification Report Opinion THGHG22182-00

Verification

ASTRO TECH CO., LTD

Scope:

No. 26-9, Yide South Road, Changhua City, Changhua County, Taiwan.

☐The information of other sites are listed on the subsequent page. •

Verification

ISO 14064-1: 2018

Criteria:

According to ISO 14064-3:2019, AFNOR Asia Ltd. (AFNOR ASIA) confirms that the GHG

Verification Objectives: statement (GHG inventory report) of the above-mentioned organization(s) is reported in accordance with the verification criteria agreed by both parties. AFNOR performs the

verification with an objective and fair position and principle (relevant, complete,

consistent, accurate, and transparent).

Data Period:

2023/01/01 to 2023/12/31(The data is historical data.)

Direct GHG emissions (category 1):

2,296.5838 tons CO2e

Verification

Energy indirect GHG emissions (category 2):

13,728.6210 tons CO2e

Data:

Indirect GHG emissions (category 3~6):

3,476,7015 tons CO2e

Global Warming Potential (GWP): refer to IPCC

2021 Year, the 6

assessment report

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

GHG Inventory report (version:

first ; Date : 05 29, 2024

GHG Inventory

(version:

first ; Date : 05 29, 2024

Materiality:

Type of Opinion:

5% (category 1 and category 2)

⊠unqualified □qualified (see the subsequent page) **□disclaim** the issuance

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 is consistent with the verification

Verification Conclusion:

scope, objectives and criteria agreed by both parties. Declares that the reasonable assurance level of the inventory data is category 1 and

category 2.

Date of Issuance:

06.25.2024

APPROVED BY

Patrick NI **Director for Certification** ON BEHALF OF **AFNOR ASIA**

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The Geographical Location of Multiple Sites:

Site	Address
Changhua factory	No. 26-9, Yide South Road, Changhua City, Changhua County, Taiwan.
Taichung factory	No. 6, Jingsi 8th Road, Nantun District, Taichung City, Taiwan.
Khanh Hoi factory	15th Street, Lot No. 1, Khanh Hoi Industrial Zone, Thanh Long Ward, Phuoc Long Town, Binh Duong Province, Vietnam.
Tong'an factory	Road No. 1, Tong'an Industrial Zone, Binh Duong Province, Vietnam. Road No. 3, Tong'an Industrial Zone, Binh Duong Province, Vietnam. Road No. 4, Tong'an Industrial Zone, Binh Duong Province, Vietnam. Road No. 5, Tong'an Industrial Zone, Binh Duong Province, Vietnam.

Emissions Data for Each Category:

Category	Description of content	GHG emissions (tons CO₂e)	Note
(Category 1) Direct GHG emissions	Stationary emissions, Mobile emissions, Process emissions, Fugitive emissions.	2,296.5838	
(Category 2) Indirect GHG emissions from imported energy	Indirect emissions from purchased electricity.	13,728.6210	local standard
(Category 3) Indirect GHG emissions from transportation	Employee transport emissions Business travel	362.2923	
(Category 4) Indirect GHG emissions from products used by organization	Purchased goods, Waste treatment	3,114.4092	
(Category 5) Indirect GHG emissions associated with the use of products from the organization	NS	NS	







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sources

Biomass burning emission: 1,304.6567 tons CO₂e

Data for Multiple Sites:

Emission unit: tons CO2e

Site	Direct GHG emissions (Category 1)	Indirect GHG emissions from energy (Category 2)	Indirect GHG emissions (Category 3~6)
Changhua factory	87.9903	664.5782	155.9877
Taichung factory	30.7831	106.8934	387.2868
Khanh Hoi factory	1,711.3436	7,931.4053	2040.6922
Tong'an factory	466.4668	5,025.7441	892.7348

Other Related Verification Information

Organization boundaries: :	operational control		
GHG type :	Carbon dioxide (CO ₂), Methane (CH ₄), Nitrous oxide (N ₂ O), Hydrofluorocarbon (HFCs), Perfluorocarbon (PFCs), Sulfur hexafluoride (SF ₆), Nitrogen trifluoride (NF3)		
Purpose of intended use:	Understanding voluntarily the status of GHG 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.)		
Criteria for significance of indirect emissions :	- Identified stakeholder requirements: ☑Yes ☐No - Identified regulation requirements : ☑Yes ☐No - Identified magnitude of emissions : ☐Yes ☑No - Others : level of influence, employee engagement, access to information and the level of accuracy of associated data.		
Purchased power factor:	Changhua factory and Taichung factory refer to the 2023 annual power factor announced by the Bureau of Energy, Ministry of Econom Affairs on 04 26, 24 Khanh Hoi factory and Tong'an factory refer to the Vietnam power gr		

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	emission coefficient 2022 by the Ministry of Natural Resources a Environment on 03 19, 24.		
Purchased steam factor :	Refer to steam supplier provided the steam coefficient 2023 on 05 28, 24.		
Data sources :	 ☑ The primary data is collected from on-site operation activities. ☑ Category 3~6 emissions are calculated with estimated data. The secondary data sources are: Carbon Footprint Information Platform, China Products Carbon Footprint Factors Database (2022), google map. ☑ others: 		
Verification method:	⊠On-site		
Qualified opinion:	NO		
Others:	NO		
Verification date :	05 20, 2024 05 27, 2024 05 28, 2024 05 29, 2024 05 30, 2024 06 12, 2024		
Report date :	06 12, 2024		

Verification	team and	technical	roviow
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Lead Verifier: Shih-Ting, Tseng 簽名: Shih - Jing, Jseng.

Verifier: CHUN-TENG, LIN 簽名: CHUN-TENG, LIN

Verifier: Micky Wang 簽名: Micky Wang





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Independent review:

Ling, Hsiao-kuang

簽名:

C. Know

Verification processes

AFNOR 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 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.



