



# Certificate

Certificat

Report no. : (TH23-011 / version 1)

## Greenhouse Gas Verification Report Opinion THGHG23204-00

**Verification** (1) Joy Industrial Co., LTD  
**Scope:** (2) No. 9, Ln. 462, Sec. 4, Changping Rd., Xibau Vil., Daya Dist., Taichung City, Taiwan (R.O.C.)  
 No. 508, Sec. 4, Changping Rd., Xibau Vil., Daya Dist., Taichung City, Taiwan (R.O.C.)

**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 performs the verification with an objective and fair position and principle (relevant, complete, consistent, accurate, and transparent).

**Data Period :** From 2022/01/01 to 2022/12/31

<b>Verification</b>	Direct GHG emissions (category 1):	108.5937	tons CO2e
<b>Data :</b>	Energy indirect GHG emissions (category 2):	1041.2447	tons CO2e
	Indirect GHG emissions (category 3~6):	1354.8098	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 :	2	: Date :	07 28, 2022	)
GHG Inventory (version :	2	: Date :	07 28, 2022	)

**Materiality :** 5% (category 1 and category 2 )

**Type of Opinion :** unqualified qualified (see the subsequent page ) disclaim the issuance

**Verification**  
**Conclusion:** 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 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:** 09 25, 2023

APPROVED BY

Patrick Ni  
Director for Certification  
ON BEHALF OF  
AFNOR ASIA



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### Emissions Data for Each Category :

Category	Description of content	GHG emissions (tons CO <sub>2</sub> e)	Note
(Category 1) Direct GHG emissions	Stationary emissions Mobile emissions Fugitive emissions	108.5937	
(Category 2) Indirect GHG emissions from imported energy	Purchased electricity (Taipower)	1041.2447	Local standard
(Category 3) Indirect GHG emissions from transportation	Upstream Transportation and Distribution, Downstream Transportation and Distribution, Business Travel	77.9624	
(Category 4) Indirect GHG emissions from products used by organization	Goods purchased by the organization, Energy fuels purchased by the organization, Disposal of waste generated by company operations	1276.8474	
(Category 5) Indirect GHG emissions associated with the use of products from the organization	NS	NA	
(Category 6) Indirect GHG emissions from other sources	NS	NA	

Biomass burning emission : 0.0000 tons CO<sub>2</sub>e

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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:	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: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No - Identified regulation requirements : <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No - Identified magnitude of emissions : <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No - Others :
Purchased power factor:	Refer to the 2022 annual power factor announced by the Bureau of Energy, Ministry of Economic Affairs on 06 21, 2023
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: EPA Product Carbon Footprint Information Website. <input type="checkbox"/> others :
Verification method:	<input checked="" type="checkbox"/> On-site
Qualified opinion :	NO
Others :	NO
Verification date :	06 30, 2023 07 05, 2023 07 27, 2023
Report date :	08 24, 2023



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## Verification team and technical review

Lead Verifier :	Shun-Hsiu Lin	簽名 : <i>Lin Shun-Hsiu</i>
Verifier :	Hui-Wen Liu	簽名 : <i>Liu, Hui-Wen</i>
Independent review :	Yi-Ching Chen	簽名 : <i>Nancy Chen</i>

## 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.