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報告編號：(TH06-185 / 第 1 版)

溫室氣體查證報告意見書

THGHG06185-00

查證範圍： 旭源包裝科技股份有限公司嘉義分公司
嘉義縣大林鎮大美里大埔美園區二路 7 號

查證準則： ISO 14064-1：2018

查證目標： 艾法諾國際（AFNOR ASIA）根據 ISO14064-3：2019 標準，確認上述組織之溫室氣體聲明(溫室氣體盤查報告書)依據雙方協議之查證準則進行盤查並提出報告，AFNOR 以客觀公正的立場及原則(相關性、完整性、一致性、準確性、透明度)執行查證。

數據期間： 2022 年 01 月 01 日至 2022 年 12 月 31 日 (檢視的數據為歷史性質)

查證數據：

直接溫室氣體排放量(類別 1)：	365.2096	公噸 CO_2e
能源間接溫室氣體排放量(類別 2)：	3329.9640	公噸 CO_2e
間接溫室氣體排放量(類別 3~6)：	1025.4023	公噸 CO_2e

全球暖化潛勢值(GWP)：引用 IPCC 2023 年第 6 次評估報告。

聲明依據：本聲明必須與下列文件作為一個整體以進行解釋說明。
溫室氣體盤查報告 (版次： B ；日期： 2023 年 11 月 16 日)
溫室氣體盤查清冊 (版次： B ；日期： 2023 年 11 月 16 日)

實質性： 5% (類別 1 及類別 2)

意見類型： ☒不含保留意見 ☐含保留意見(請見附頁) ☐放棄簽發

查證結論： 確認組織依據雙方協議查證準則之要求提出溫室氣體聲明，並公正地呈現溫室氣體數據及相關資訊，與雙方協議的查證範圍、目標和準則一致。
聲明盤查數據之合理保證等級為類別 1 及類別 2。

本文件核發日期: 2023 年 12 月 30 日

APPROVED BY

Patrick NI
Director for Certification
ON BEHALF OF
AFNOR ASIA

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各類別排放量數據：

類別	內容說明	溫室氣體排放量 (公噸 CO_2e)	備註
(類別 1) 直接溫室氣體排放	固定式燃燒源、移動式燃燒源、製程排放源、逸散性排放源	365.2096	
(類別 2) 輸入能源之間接溫室氣體排放	電力	3329.9640	所在地基準
(類別 3) 運輸之間接溫室氣體排放	員工通勤	105.4117	
(類別 4) 組織使用的產品之間接溫室氣體排放	購買產品、廢棄物處理	919.9906	
(類別 5) 使用組織的產品之間接溫室氣體排放	NS	NS	
(類別 6) 其他來源之間接溫室氣體排放	NS	NS	

生質燃燒排放： 0.0000 公噸 CO_2e

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其他查證相關資訊

組織邊界：	營運控制權
溫室氣體類型：	二氧化碳(CO_2)、甲烷(CH_4)、氧化亞氮(N_2O)、氫氟碳化物(HFCs)、全氟碳化物(PFCs)、六氟化硫(SF_6)、三氟化氮(NF_3)
預期使用目的：	自願理解溫室氣體排放狀況做為減量策略依據。 (本聲明責任僅適用於上述預期使用目的，不適用其他任何目的。)
間接排放重大性準則：	-已鑑別利害相關者要求：☒是 ☐否 -已鑑別法規要求：☒是 ☐否 -已鑑別排放量大小：☒是 ☐否 -其他說明：
電力係數：	引用 112 年 6 月 21 日能源局公告之 111 年度電力係數
數據來源：	☒ 初級數據來源於現場營運活動的數據蒐集。 ☒ 類別 3~6 排放量計算為使用估算數據。 次級數據來源為：產品碳足跡資訊網 ☐ 其他說明：
查證方法	☒現場查證
保留意見：	無
其他：	無
查證作業實施日期：	2023 年 11 月 08 日 2023 年 11 月 16 日
報告日期：	2023 年 12 月 01 日

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查證團隊與技術審查

主導查證員： 劉慧文 簽名：

獨立審查者： 陳怡靜 簽名：

查證程序

AFNOR 以風險評估方法及管制為基礎，證據蒐集程序包括：行前評估、現場訪視、與場址的人員訪談、確認所提供的文件證據、對排放數據進行抽樣、評估數據管理系統、確認排放數據的蒐集與彙總、生產與能源消耗之間的分析，並確認所參考的協議條款是否被適當應用。

角色與職責

受查組織責任方依據查證準則規定，負責準備並提出溫室氣體聲明。此項責任包括規劃、實施及維護與溫室氣體聲明有關的數據管理系統，溫室氣體盤查清冊和盤查報告確認。

AFNOR 對所報告的溫室氣體排放量提供獨立的第三方查證，出具本次查證組織型溫室氣體排放量之查證意見。查證團隊具獨立及公正性，不存在任何利益衝突。

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Report no. : (TH06-185 / version 1)

Greenhouse Gas Verification Report Opinion

THGHG06185-00

Verification scope:	XU YUAN PACKAGING TECHNOLOGY CO., LTD. Chiayi Branch Office No. 7, Yuanqu 2nd Rd., Dapumei, Damei Village, Dalin Township, Chiayi County 62255, Taiwan, R.O.C.
Verification criteria:	ISO 14064-1 : 2018
Verification Objectives :	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 :	Jan. 1, 2022 – Dec. 31, 2022
Verification data :	Direct GHG emissions (category 1): 365.2096 tons CO2e Energy indirect GHG emissions (category 2): 3329.9640 tons CO2e Indirect GHG emissions (category 3~6): 1025.4023 tons CO2e

Global warming potential (GWP) : refer to IPCC 2023 Year, the 6 assessment report

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

GHG Inventory report (version : B ; Date : Nov. 16, 2023)
GHG Inventory (version : B ; Date : Nov. 16, 2023)

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 the two parties, and fairly presents the GHG data and related information, which is consistent with the verification scope, objectives and criteria agreed by the two parties.
Declares that the reasonable assurance level of the inventory data is category 1 and category 2.

Date of issuance: 12 30, 2023

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Emissions data for each category :

Category	Description of content	GHG emissions (tons CO_2e)	Note
(Category 1) Direct GHG emissions	Fugitive emissions Mobile emissions Stationary emissions Process emissions	365.2096	
(Category 2) Indirect GHG emissions from imported energy	Indirect emissions from purchased electricity	3329.9640	location benchmark
(Category 3) Indirect GHG emissions from transportation	Employee commuting	105.4117	
(Category 4) Indirect GHG emissions from products used by organization	Waste treatment Purchased goods	919.9906	
(Category 5) Indirect GHG emissions associated with the use of products from the organization	NS	NS	
(Category 6) Indirect GHG emissions from other sources	NS	NS	

Biomass burning emission : 0.0000 tons CO_2e

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Other related verification information

Organization boundaries: :	operational control
GHG type :	Carbon dioxide (CO2), Methane (CH4), Nitrous oxide (N2O), Hydrofluorocarbon (HFCs), Perfluorocarbon (PFCs), Sulfur hexafluoride (SF6), Nitrogen trifluoride (NF3)
Purpose of intended use:	This statement of responsibility applies only to the purpose of intended use mentioned above and not to any other purpose.
Significance criteria of Indirect emission :	- Identified stakeholder requirements: ☒Yes ☐No - Identified regulation requirements : ☒Yes ☐No - Identified magnitude of emissions : ☒Yes ☐No - Others :
Power factor:	Refer to the 2022 annual power factor announced by the Bureau of Energy, Ministry of Economic Affairs on June 21, 2023
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 ☐ others :
Verification method:	☒On-site
Qualified opinion :	NO
Others :	NO
Verification date :	Nov. 08, 2023 Nov. 16, 2023
Report date :	01 12, 2023

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Verification team and technical review

Lead verifier :	**Hui-Wen Liu**	簽名：	Liu, Hui-Wen
Independent review :	**Yi-Ching Chen**	簽名：	Nancy Chen

Verification processes

AFNOR is based on risk assessment methods and controls and processes of evidences collection are including pre-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 aggregation 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 responsible party, the 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.

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