



# Certificate

Certificat

Report no. : (TH23-252 / version 1)

## Greenhouse Gas Verification Report Opinion

### THGHG23252-00

**Verification Scope:** URANUS CHEMICALS CO., LTD  
NO. 11, WENHUA ROAD, FENGSHAN VILLAGE, HUKOU TOWNSHIP, HSINCHU COUNTY 303 , 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 performs the verification with an objective and fair position and principle (relevant, complete, consistent, accurate, and transparent).

**Data Period :** 2022/01/01~2022/12/31

<b>Verification Data :</b>	Direct GHG emissions (category 1):	3,524.2241	tons CO2e
	Energy indirect GHG emissions (category 2):	2,849.6709	tons CO2e
	Indirect GHG emissions (category 3~6):	26,402.4614	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 :	3	; Date :	11 15, 2023	)
GHG Inventory (version :	3	; Date :	11 15, 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 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 for all and category 2 for Hsinchu Factory 1, Hsinchu Factory 2 and Taichung Factory, the limited assurance level of the inventory data is category 2 for Toufen Factory and category 3 to 6 for all.

**Date of Issuance:** 11 26, 2023

APPROVED BY

Patrick Ni

Director for Certification  
ON BEHALF OF  
AFNOR ASIA

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**The Geographical Location of Multiple Sites :**

Site	Address
Hsinchu Factory 1	NO. 11, WENHUA ROAD, FENGSHAN VILLAGE, HUKOU TOWNSHIP, HSINCHU COUNTY 303 , TAIWAN (R.O.C.)
Hsinchu Factory 2	NO. 18, SHIJIAN ROAD, SHENGLI VILLAGE, HUKOU TOWNSHIP, HSINCHU COUNTY 303 , TAIWAN (R.O.C.)
Toufen Factory	NO. 440, ZHONGHUA ROAD, LUZHULI, TOUFEN CITY, MIAOLI COUNTY 351, TAIWAN (R.O.C.)
Taichung Factory	NO. 68, LANE 245, SECTION 3, SHATIAN ROAD, DING STREET, DADU DISTRICT, TAICHUNG CITY 432 , TAIWAN (R.O.C.)

**Emissions Data for Each Category :**

Category	Description of content	GHG emissions (tons CO <sub>2</sub> e)	Note
(Category 1) Direct GHG emissions	Stationary combustion emissions, Mobile combustion emissions, Fugitive emissions	3,524.2241	
(Category 2) Indirect GHG emissions from imported energy	Emissions from purchased electricity, Emissions from purchased steam	2,849.6709	local standard
(Category 3) Indirect GHG emissions from transportation	Upstream transport emissions, Downstream transport emission, Waste transport emissions	25,313,8040	
(Category 4) Indirect GHG emissions from products used by organization	Upstream emission for purchased goods, Waste treatment	1,088,6574	
(Category 5) Indirect GHG emissions associated with the use of products from the organization	NS	NS	
(Category 6) Indirect GHG emissions from other sources	NA	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 :	<ul style="list-style-type: none"> <li>- Identified stakeholder requirements: <input type="checkbox"/>Yes <input checked="" type="checkbox"/>No</li> <li>- Identified regulation requirements : <input checked="" type="checkbox"/>Yes <input type="checkbox"/>No</li> <li>- Identified magnitude of emissions : <input checked="" type="checkbox"/>Yes <input type="checkbox"/>No</li> <li>- Others :</li> </ul>
Purchased power factor:	Refer to the 2022 annual power factor announced by the Bureau of Energy, Ministry of Economic Affairs on 06 21, 2023.
Purchased steam factor :	Hsinchu factory 1 refer to the 2022 annual steam factor provided by the CHANG CHUN PLASTICS CO.,LTD.. Toufen factory refer to the 2022 annual steam factor provided by the HENG-I CHEMICAL CO.,LTD..
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 EPA Carbon footprint information platform <input type="checkbox"/> others :
Verification method:	<input checked="" type="checkbox"/> On-site
Qualified opinion :	NO
Others :	NO
Verification date :	08 14, 2023(document) 08 21, 2023(on site) 08 22, 2023(on site) 08 29, 2023(on site)
Report date :	11 15, 2023



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## Verification team and technical review

Lead Verifier :	Nancy Chen	簽名 :	<i>Nancy Chen</i>
Verifier :	Hsiao-Kuang Ling	簽名 :	<i>C. Kuang</i>
Independent review :	Wen-Chin Tsai	簽名 :	<i>Wen-Chin Tsai</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.