

Greenhouse Gas Verification Opinion

The inventory of Greenhouse Gas emissions in year 2023 of

WINSTAR Display Co., Ltd.

2F., No. 43, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)

has been verified in accordance with ISO 14064-3:2019 as meeting the requirements of

ISO 14064-1:2018

Direct emissions

337.7676 tonnes of CO₂e

Indirect emissions

5,601.8616 tonnes of CO₂e

Direct emissions and indirect emissions

5,939.629 tonnes of CO₂e

Authorized by

Stephen Pao

Business Assurance Director

Date: 13 January 2025

Version 1

TGP56B-15-1 2411 SGS Taiwan Ltd. No. 136-1, Wu Kung Road, New Taipei Industrial Park, Wu Ku District, New Taipei City 248016, Taiwan t (02) 22993279 f (02)22999453 www.sgs.com





The emission of each category is described as below:

Unit: tonnes of CO₂e

	GHG Emissions			
Inventory categories		Description	GIG EIIIISSIONS	
		Direct emissions from stationary combustion	1.4002	
Direct emissions		Direct emissions from mobile combustion	81.6139	
		Direct process emissions and removals from industrial processes	0.0000	
		Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	254.7535	
		Direct emissions and removals from land use, land use change and forestry	0.0000	
	Imported energy	Indirect emissions from imported electricity	2,400.1323	
Indirect emissions	Transportation	- Emissions from upstream transport and distribution for goods, including transportation of following description: WINSTAR: the transportation of the top 10 commodity among the ranking of purchase value in the main production material; Winstar (Changshu): the transportation of main production material, infrastructure material, equipment material; Dongguan Vanstar: the transportation of main production material, production material, production material, packaging material Emissions from employee commuting Emissions from business travel	200.8536	
	Products used by an organization	 Emissions from purchased goods, , including goods of following description: WINSTAR: the top 10 commodity among the ranking of purchase value in the main production material; Winstar (Changshu): main production material, production material, infrastructure material, equipment material; Dongguan Vanstar: main production material, production material, production material, packaging material Emissions from the disposal of solid and liquid waste Emissions from the use of assets 	3,000.8757	



Reporting Boundaries			OUO E : :	
Inventory categories		Description	GHG Emissions	
	Associated with the use of products from	Not significant category	-	
	the organization	No. 10 Company of the	2	
	Other sources	Not significant category		
Direct emissions and indirect emissions			5,939.629	

The emission of each site is described as below:

Unit: tonnes of CO₂e

Cit.	Direct emissions	Indirect emissions Category 2 Category 3~6		Total GHG emissions	
Site	Category 1				
WINSTAR Display Co.,Ltd.	90.2978	554.7654	1,834.2142	2,479.277	
Winstar Display(Changshu) Co., Ltd.	175.8467	1,175.3451	1,135.9096	2,487.101	
Dongguan Vanstar Technology Co., Ltd.	71.6231	670.0218	231.6055	973.250	



SGS has been contracted by WINSTAR DISPLAY CO., LTD. (hereinafter referred to as "WINSTAR"), 2F., No. 43, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.) for the verification of direct and indirect Greenhouse Gas emissions in accordance with

ISO 14064-3:2019

as provided by WINSTAR DISPLAY CO., LTD. (hereinafter referred to as "WINSTAR"), 2F., No. 43, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.), in the GHG Statement in the form of GHG report.

Roles and responsibilities

- The management of WINSTAR is responsible for the organization's GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information and the reported GHG emissions.
- The verification was based on the verification scope, objectives and criteria as agreed between WINSTAR and SGS on 26 December 2022.
- Verification Criteria: ISO 14064-1:2018
- Verification Period: 23 October 2024 to 05 November 2024.

Scope

- GHG information for the following period was verified: 01 January 2023 to 31 December 2023
- Location/boundary of the activities:
 - o 4F., No. 33, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)
 - o 2F., No. 43, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)
 - o 2F., No. 25, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)
 - o 4F., No. 25, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.)
 - o No. 401, 400, Xinzhuang Road, Changshu City, Jiangsu Province, P.R. China
 - No. 497, Guanchang Road, Dalingshan Road, Dalingshan Town, Dongguan City,
 Guangdong Province, P.R. China
 - Building 13-305, Jinke Jimei Academy, Xinzhuang Town, Changshu City, Jiangsu Province
 - Building 12-704, Jinke Jimei Academy, Xinzhuang Town, Changshu City, Jiangsu Province
 - Xiangdong Industrial Zone, Guanchang Road, Ailing Kan, Dalingshan Town, Dongguan
 City, Guangdong Province, P.R. China



- No. 62, Hengkengzi Road, Daling Town, Dongguan City, Guangdong Province, P.R.
 China
- No. 6, Xiapu 1st Road, Xiangdong Village, Daling Town, Dongguan City, Guangdong Province, P.R. China
- Room 2605, Building 16, Kaidong New Town, Daling Town, Dongguan City, Guangdong Province, P.R. China
- Room 1801, Building 19, Kaidong New Town, Daling Town, Dongguan City, Guangdong Province, P.R. China
- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
 - Direct emissions: Greenhouse Gas Emission Factor Table (6.0.4), IEA (2022) Emission Factors-People's Republic of China-Motor gasoline excl bio
 - Indirect emissions:
 - Electricity emission factor is 0.494 kgCO₂e/kwh (Announced by Energy Administration, Ministry of Economic Affairs in 2024).
 - The secondary database has Carbon Footprint Information Platform, Yadi Technology Group Co., Ltd.-Electric Bicycle TDR2481Z, SimaPro 9.3.0.2, ICAO Carbon Emissions Calculator, Taiwan High-Speed Railway Transportation Service Carbon Footprint, Chinese Product Full Life Cycle Greenhouse Gas Emission Coefficient Library-China High-Speed Railway, SimaPro 9.5.0.0 Ecoinvent v3, China EnvironmentalScience-Provincial Road Traffic Carbon Dioxide Emission Factors in China, Industrial Technology Research Institute DoITPro Coefficient Library
- The level of assurance for category 1 and category 2 agreed is that of reasonable assurance.
 Category 3 till category 6 agreed is that of limited assurance. Oversea sites in the scope of assurance are in the level of limited assurance for all categories.
- Materiality: 5%
- The version of inventory sheet: V2
- The version of GHG statement: V4
- Intended user of the verification opinion: Private purpose



Objective

The purposes of this verification exercise are, by review of objective evidence, to independently review:

- Whether the GHG emissions are as declared by the organization's GHG statement
- The data reported are accurate, complete, consistent, transparent and free of material error or omission.

Conclusion

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions information and the controls in place to mitigate these. Our examination includes assessment, on a test basis, of evidence relevant to the amounts and disclosures in relation to the organization's reported GHG emissions. We planned and performed our work to obtain the information, explanations and evidence that the GHG emissions are free from material misstatement.

- The greenhouse gas emissions is 5,939.629 metric tonnes of CO₂ equivalent
- The emissions from the combustion of biomass is 0.0000 metric tonnes of CO₂ equivalent

The emission of each category is described as below:

Unit:	tonnes	of	CO ₂ e

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	Re	porting Boundaries	0110 5	
Inventory categories		Description	GHG Emissions	
		Dongguan Vanstar: the transportation of main production material, production material, packaging material - Emissions from employee commuting - Emissions from business travel		
	oducts used by organization	- Emissions from purchased goods, , including goods of following description: <u>WINSTAR</u> : the top 10 commodity among the ranking of purchase value in the main production material; <u>Winstar (Changshu)</u> : main production material, production material, infrastructure material, equipment material; <u>Dongguan Vanstar</u> : main production material, production material, production material, packaging material	3,000.8757	
		 Emissions from the disposal of solid and liquid waste Emissions from the use of assets 		
the	sociated with e use of oducts from e organization	Not significant category		
Ot	her sources	Not significant category	#5/1/	
irect emissions	s and indirect em	nissions	5,939.629	

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Unit: tonnes of CO₂e

0:4-	Direct emissions	Indirect emissions Category 2 Category 3~6		Total GHG
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- The opinion of SGS is modified in accordance with the following described circumstances.
 - The verifier has sufficient and appropriate evidence to support the material emissions, removals, or storage.
 - o The verifier applies appropriate criteria for the material emissions, removals, or storage.
 - When the verifier intends to rely on relevant controls, the effectiveness of those controls has been assessed.
 - The verifier, applying the ISO 14064-1:2018 standard, presents the following findings. After adjustments and corrections, no material errors were identified.
 - Several activity data were filled in incorrectly in the inventory and the emission factors were quoted incorrectly. The organization have been corrected the verification findings to conform its accuracy.
- Retention Limitation: NA

Confidentiality

The reports and attachments may contain relevantly confidential information of the clients. In addition to being submitted as governmental application or certification documents, the reports and attachments are not allowed to be edited, duplicated, or published without the clients' agreement in written form.

Avoidance of Conflict of Interest

The reports and attachments are completely complied with the standards and procedures that related authorities established. The reports and attachments of auditing process are conduct with fairness and honesty. If not, the auditing institution not only has to bear the relevant compensation duties, but also to receive legal charge and punishment.

This opinion shall be interpreted with the GHG statement of WINSTAR as a whole.



Verifier Group

Above opinions coincide with auditing process with fairness and impartiality and aim at the emission of year 2023 of clients.

Lead Verifier:

Surmy Chury Karly Cheng Jacky Chen

Verifier:

Prosper Huang

Note: This opinion is issued, on behalf of Client, by SGS Taiwan Ltd. ("SGS") under its General Conditions for Greenhouse Gas Verification Services available at http://www.sgs.com/terms_and_conditions.htm. The findings recorded hereon are based upon an audit performed by SGS. A full copy of this opinion, the findings and the supporting GHG Statement may be consulted at WINSTAR Display Co., Ltd., 2F., No. 43, Keya Rd., Daya Dist., Taichung City 428, Taiwan (R.O.C.), This opinion does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.