

OPINION

Greenhouse Gases Verification Opinion ISO 14064-1 : 2018

Gives to

ADVANTECH CO., LTD.

Office Address

**No.1, Alley 20, Lane 26, Rueiguang Rd.,
Neihu District, Taipei City 114, Taiwan**

The quantity of Greenhouse Gas of the above organization and found to be in accordance with ISO 14064-3:2019. (detailed information please refer to next page)

Report Year	: 2023	
Greenhouse Gases		
Direct Emissions	: 615.4740	CO2-e Tonnes/ year
Energy Indirect Emissions(Category2)	: 9,723.0184	CO2-e Tonnes/ year
Other Indirect Emissions (Category3-6)	: 946.060.0220	CO2-e Tonnes/ year
Sum	: 956,398.5144	CO2-e Tonnes/ year
Materiality	: 5%	
Reasonable Assurance	: Direct and Energy Indirect Emissions	
Limited Assurance	: Category3-6	

Opinion No.: GHG- 243471024

Version:

Verify Date: 2024-03-01

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Verification Body
at TUV NORD Taiwan Co., Ltd.

TUV NORD Taiwan Co., Ltd.
Room A1, 9F, No.333, Sec.2,
Tun Hua S. Rd.
Taipei 10669 Taiwan, R.O.C.

Further clarifications regarding the scope of this opinion and the applicability of the standard may be obtained by consulting the organization

TUV NORD Taiwan Co., Ltd. Room A1, 9F, No. 333, Sec. 2, Tun Hua S. Rd., Taipei, Taiwan www.tuv-nord.com/tw/en

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Appendix to Opinion No. GHG-243471024 ISO 14064-1 : 2018

TUV NORD Taiwan Co., Ltd (hereinafter referred to as "TUV NORD") has been contracted with Advantech Co., Ltd. (hereinafter referred to as Advantech), No.1,Alley 20, Lane 26, Rueiguang Rd., Neihu District, Taipei City 114, Taiwan for the verification of direct and indirect greenhouse gas emissions in accordance with ISO 14064-3:2019. In the GHG Opinion in the form of GHG report covering GHG emissions of the period 01, 01, 2023 to 31, 12, 2023.

Roles and responsibilities

The management of Advantech 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.

TUV NORD conducted a third party verification to express an independent GHG verification opinion on the GHG emissions as provided in the GHG Opinion for the period year 2023

Level of Assurance

The level of assurance agreed are that of reasonable assurance for category 1 and 2; Limited level assurance from category 3 to 6.

Scope

Verification of GHG emissions within the organization's boundary and is based on ISO 14064-3:2019.

Location/Boundary of the activities:

Company	Address
Advantech Co., Ltd.	No.1,Alley 20, Lane 26, Rueiguang Rd., Neihu District, Taipei City 114, Taiwan (R.O.C.)
	No. 33, Lane 365, Yang Guang Street., Neihu District, Taipei City 114, Taiwan (R.O.C.)
	No. 27, 27-3,27-5 Wende Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	B1F&5~7F., No. 1, Ln. 169, Kangning St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2014 AR5 GWP values are applied in the inventory.
- GHG information for the following period was verified on 01, 02, 2024 to 01. 03. 2024

The GHG emissions are described as below:

GHG emissions categorization		Description	GHG emission (tonnes of CO ₂ e per year)
Direct Emissions/ Category 1		Occur from GHG sources inside organizational boundaries and that are owned or controlled by the organization.	615.4740
Energy Indirect Emissions	Category 2	Indirect GHG emissions from imported energy	9,723.0184
Indirect Emissions	Category 3	Indirect GHG emissions from transportation	643.6123
	Category 4	Indirect GHG emissions from products used by an organization	221,321.9801
	Category 5	Indirect GHG emissions associated with the use of products from the organization	724,095.0296
	Category 6	Other sources	Undisclosed
Direct Emissions and Indirect Emissions			956,398.5144

The GHG emissions categorization are based on Annex B of ISO14064-1:2018.
Intended User of Verification Opinion: Organizations use for their own reference.

Confidentiality

The reports and appendix are not allowed to be edited, duplicated, or published without the clients' agreement.

Avoidance of Conflict of Interest

The reports was verified with fairness and honestly.

Verifiers Group

According as the above opinion were judgement by TUV NORD.

Verification Body
at TUV NORD Taiwan Co., Ltd.

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Further clarifications regarding the scope of this opinion and the applicability of the standard may be obtained by consulting the organization

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