

OPINION

Greenhouse Gases Verification Opinion ISO 14064-1 : 2018

Gives to

GREATEK ELECTRONICS INC. (GONG-YI)

Office Address

**No. 136, Gongyi Rd., Zhunan Township, Miaoli County 350032,
Taiwan (R.O.C.)**

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	:	2024	
Greenhouse Gases			
Direct Emissions	:	618.8252	CO2-e Tonnes/ year
Energy Indirect Emissions(Category2)	:	77,540.6428	CO2-e Tonnes/ year
Other Indirect Emissions (Category3-6)	:	19,355.2041	CO2-e Tonnes/ year
Sum	:	97,514.672	CO2-e Tonnes/ year
Materiality	:	5%	
Reasonable Assurance	:	Direct and Energy Indirect Emissions	
Limited Assurance	:	Category3-6	

Opinion No.: GHG-253337043

Version: V1.1

Verify Date: 2025-03-28

Issue Date: 2025-04-26

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

OPINION

Appendix to Opinion No. GHG-253337043

ISO 14064-1 : 2018

TUV NORD Taiwan Co., Ltd (hereinafter referred to as "TUV NORD") has been contracted with Greatek Electronics INC. (GONG-YI) (hereinafter referred to as "Greatek(GONG-YI)", No. 136, Gongyi Rd., Zhunan Township, Miaoli County 350032, Taiwan (R.O.C.) 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, Jan., 2024 to 31, Dec., 2024.

Roles and responsibilities

The management of Greatek(GONG-YI) 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 2024.

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
Greatek Electronics INC. (GONG-YI)	No. 136, Gongyi Rd., Zhunan Township, Miaoli County 350032, Taiwan (R.O.C.)
	No. 112, Gongyi Rd., Zhunan Township, Miaoli County 350032, Taiwan (R.O.C.)
	No. 158, Gongyi Rd., Zhunan Township, Miaoli County 350032, Taiwan (R.O.C.)
	No. 10, Ln. 178, Gongyi Rd., Zhunan Township, Miaoli County 350032, Taiwan (R.O.C.)

- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2021 AR6 GWP values are applied in the inventory.
- GHG information for the following period was verified on 26, Feb., 2025 to 28, Mar., 2025

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.	618.8252
Energy Indirect Emissions	Category 2	Indirect GHG emissions from imported energy	77,540.6428
	Category 3	Indirect GHG emissions from transportation	1,295.7829
Indirect Emissions	Category 4	Indirect GHG emissions from products used by an organization	18,059.4212
	Category 5	Indirect GHG emissions associated with the use of products from the organization	Undisclosed
	Category 6	Other sources	Undisclosed
Direct Emissions and Indirect Emissions			97,514.672
Renewable Electricity with ISO 14064-1 Annex E			
Location-based approach(kWh)			1,713,000.0000

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 honesty.

Verifiers Group

According as the above opinion were judgement by TUV NORD.

Verification Body
at TUV NORD Taiwan Co., Ltd.

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Taipei 10669 Taiwan, R.O.C.

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OPINION

Greenhouse Gases Verification Opinion ISO 14064-1 : 2018

Gives to

GREATEK ELECTRONICS INC. (TOUFEN)

Office Address

**No. 9 & No. 11, Zhuong-Min Rd., Toufen City,
Miaoli County 351029, Taiwan (R.O.C.)**

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	: 2024	
Greenhouse Gases		
Direct Emissions	: 593.8436	CO2-e Tonnes/ year
Energy Indirect Emissions(Category2)	: 30,010.1048	CO2-e Tonnes/ year
Other Indirect Emissions (Category3-6)	: 7,941.6914	CO2-e Tonnes/ year
Sum	: 38,545.640	CO2-e Tonnes/ year
Materiality	: 5%	
Reasonable Assurance	: Direct and Energy Indirect Emissions	
Limited Assurance	: Category3-6	

Opinion No.: GHG-253337038
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Verify Date: 2025-03-26

Issue Date: 2025-04-23

Verification Body
at TUV NORD Taiwan Co., Ltd.



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Room A1, 9F, No.333, Sec. 2,
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OPINION

Appendix to Opinion No. GHG-253337038

ISO 14064-1 : 2018

TUV NORD Taiwan Co., Ltd (hereinafter referred to as "TUV NORD") has been contracted with Greatek Electronics INC. (Toufen) (hereinafter referred to as "Greatek (Toufen)", No. 9 & No. 11, Zhuong-Min Rd., Toufen City, Miaoli County 351029, Taiwan (R.O.C.) 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, Jan., 2024 to 31, Dec., 2024.

Roles and responsibilities

The management of Greatek (Toufen) 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 2024.

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.

- Types of GHGs included: CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- The IPCC 2021 AR6 GWP values are applied in the inventory.
- GHG information for the following period was verified on 27, Feb., 2025 to 26, Mar., 2025

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.	593.8436
Energy Indirect Emissions	Category 2	Indirect GHG emissions from imported energy	30,010.1048
Indirect Emissions	Category 3	Indirect GHG emissions from transportation	420.4221
	Category 4	Indirect GHG emissions from products used by an organization	7,521.2693
	Category 5	Indirect GHG emissions associated with the use of products from the organization	Undisclosed
	Category 6	Other sources	Undisclosed
Direct Emissions and Indirect Emissions			38,545.640

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

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Verifiers Group

According as the above opinion were judgement by TUV NORD.

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