

OPINION

Greenhouse Gases Verification Opinion ISO 14064-1 : 2018

Gives to

RALEC ELECTRONIC CORP

Office Address

**No. 1, Central 2nd St., Nanzi Dist., Kaohsiung City 811,
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	: 217.7013	CO2-e Tonnes/ year
Energy Indirect Emissions(Category2)	: 6746.4592	CO2-e Tonnes/ year
Other Indirect Emissions (Category3-6)	: 2609.4264	CO2-e Tonnes/ year
Sum	: 9573.587	CO2-e Tonnes/ year
Materiality	: 5%	
Reasonable Assurance	: Direct and Energy Indirect Emissions	
Limited Assurance	: Category3-6	

Opinion No.: GHG-253686042

Version: V1.1

Verify Date: 2025-03-27

Issue Date: 2025-04-23

Verification Body
at TUV NORD Taiwan Co., Ltd.



TUV NORD Taiwan Co., Ltd.
Room A1, 9F, No.333, Sec.2,
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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-253686042 ISO 14064-1 : 2018

TUV NORD Taiwan Co., Ltd (hereinafter referred to as "TUV NORD") has been contracted with RALEC ELECTRONIC CORP (hereinafter referred to as "RALEC"), No. 1, Central 2nd St., Nanzi Dist., Kaohsiung City 811, 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 RALEC 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
RALEC ELECTRONIC CORP	No. 1, Central 2nd St., Nanzi Dist., Kaohsiung City 811, Taiwan (R.O.C.)
	No.20, Kaifa Rd., Nanzi Dist., Kaohsiung City 811, 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 06, Mar., 2025 to 27, 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.	217.7013
Energy Indirect Emissions	Category 2	Indirect GHG emissions from imported energy	6746.4592
	Category 3	Indirect GHG emissions from transportation	242.5849
Indirect Emissions	Category 4	Indirect GHG emissions from products used by an organization	2366.8415
	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			9,573.587

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.




Validation and Verification
VB019

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