

Independent Verification Opinion

Verification Opinion No.:
C723204-2023-AG-TWN-DNV

Issued Place:
Taipei

Issued Date:
17 January, 2025

This is to verify initiate reporting of Greenhouse Gas Inventory Management Report (2023) of

Fortune Electric Co. Ltd.

Scope of Verification

DNV Business Assurance (DNV) has been commissioned by Fortune Electric Co. Ltd. ('the Organization') to perform a verification of the greenhouse gas statements of Greenhouse Gas Inventory Management Report (2023) (hereafter the "Inventory Report") in Taiwan, R.O.C. with respect to the area: No.10, Jilin Rd., Zhongli Dist., Taoyuan City 32063, Taiwan (R.O.C.)

The Reporting Boundary for the verification including direct GHG emissions and removals, indirect GHG emissions from imported energy and indirect GHG emissions from products used by the Organization. The further descriptions for the Reporting Boundary listed in Appendix A.

Verification Criteria and GHG Programme

The verification was performed on the basis of ISO 14064-1:2018 as well as criteria given to provide for consistent GHG emission identification, calculation, monitoring and reporting. The verification was conducted in accordance with ISO 14066:2011, ISO 14065:2020, ISO14064-3:2019

Verification Opinion

It is DNV's opinion that the Inventory Report (2023), which was published on October 2024 is free from material discrepancies in accordance with the verification criteria identified as stated above. The opinion is decided based on the following approaches,

- For the Direct (Category 1) and Indirect GHG emissions from imported energy (Category 2), the reliability of the information within the Inventory Report (2023) were verified with reasonable level of assurance.
- For the other indirect GHG emissions, the involved information was verified and tested using limited assurance.

Also, the GHG information as stated in Appendix B and C has been verified during the process.

Jesse Wu
GHG Verifier



Place and date:

Taipei, 17 January, 2025

For the issuing office:

DNV Business Assurance Co., Ltd.
29Fl., No. 293, Sec. 2, Wenhua Rd.,
Banqiao District, New Taipei City
220, Taiwan



Management Representative



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Supplement to Verification Opinion

Process and Methodology

The reviews of the Inventory Report and relevant documents, and the subsequent follow-up interviews have provided DNV with sufficient evidence to determine the fulfilment of stated criteria.

Quantification of Greenhouse Gas Emission

The Inventory Report covering the period 1 January, 2023 to 31 December, 2023, it is DNV's opinion that GHG emissions and removals identified within the Reporting Boundary has been included in the Inventory Report as claimed in accordance with the verification criteria identified as stated above, and results in quantification of GHG emissions that are real, transparent and measurable.

Organizational Boundary of Verification

☐ Financial Control ☒ Operational Control ☐ Equity Share

GHGs Verified

☒ CO₂ ☒ CH₄ ☒ N₂O ☒ HFCs ☒ PFCs ☒ SF₆ ☒ NF₃

The Quantification of GHG emissions:

Category		Emission (ton CO ₂ e)
Category 1	Direct GHG emissions and removals	21,825.868
1.1	Stationary combustion emissions	118.0377
1.2	Mobile emissions	78.8633
1.3	Industry process	0.0000
1.4	Fugitive emissions	21,628.9488
Category 2	Indirect GHG emissions from imported energy	5,249.886
2.1	Indirect emissions from imported electricity	5,249.8862
Category 4	Indirect GHG emissions from products used by an organization	44,650.694
4.1	Purchased goods and services	44,650.6943
Total		71,726.448

(The Imported Energy Indirect Emissions was calculated based on 2023 electricity emission factor of 0.494 kg CO₂e/kwh, which was announced by Energy Administration, Ministry of Economic Affairs. The Global Warming Potential (GWP) defined in IPCC AR6 (2023) has been chosen and correctly referred by the Organization.)

Verification Opinion

☒ unmodified ☐ modified ☐ adverse

Appendix to Verification Opinion No. C723204-2023-AG-TWN-DNV

APPENDIX A

The organization boundary of report:

Plant	Address	Category 1 (Ton CO ₂ e)	Category 2 (Ton CO ₂ e)	Category 4 (Ton CO ₂ e)
Total Emissions of Fortune Electric Co. Ltd.		21,825.868	5,249.886	44,650.694
Zhongli Factory	No.10, Jilin Rd., Zhongli Dist., Taoyuan City 32063, Taiwan (R.O.C.)	123.038	1,573.143	20,470.718
Guanyin No.2 Factory	No. 33, Jingjian 2nd Rd., Guanyin Dist., Taoyuan City 328454, Taiwan (R.O.C.)	21,498.050	3,248.149	22,883.429
Guanyin No.3 Factory	No. 55, Zhongzheng Rd., Guanyin Dist., Taoyuan City 328003, Taiwan (R.O.C.)	185.372	429.462	1,296.547

APPENDIX B

The Reporting Boundary of Fortune Electric Co. Ltd. Greenhouse Gas Inventory Management Report (2023)

Category	Subcategory	Boundary
Category 2	2.1 Imported electricity	-Bill and invoice from suppliers (TPC)
Category 3*	Indirect GHG emissions associated with the use of products from the organization	Not Significant Emissions
Category 4	Indirect GHG emissions from purchased goods, which are emissions associated with the fabrication of the product.	- select representative raw materials (The raw materials that make up the representative product are calculated as the raw materials accounting for the top 70% by weight.) - The purchase weight accounts for more than 95% of the total purchase of representative raw materials -Weight of in-coming goods and raw material report
Category 5*	Indirect GHG emissions associated with the use of products from the organization	Not Significant Emissions
Category 6*	Indirect GHG emissions from other sources	Not Significant Emissions

NOTE: Category 3 & Category 5 & Category 6 were evaluated as Not Significant Emissions base on Fortune Electric Co. Ltd.'s significant emission identification process reported in GHG inventory report.

APPENDIX C

For direct emissions and removals, quantified separately for each GHG as below:

GHG Type	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	NF ₃	Total
Emissions (ton CO ₂ e)	193.6923	135.6134	2.4384	87.7237	0.0000	21,406.4000	0.0000	21,825.868
Proportion (%)	0.89	0.62	0.01	0.12	0.00	29.84	0.00	100