

Independent Verification Opinion

Verification Opinion No.: C674375-2023-AG-TWN-DNV

Issued Place: Taipei

Issued Date: 28 June, 2024

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

Chang Wah Technology Co., Ltd.

Scope of Verification

DNV Business Assurance (DNV) has been commissioned by Chang Wah Technology 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 sites listed in Appendix A.

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

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 June 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 engagement, defined in Inventory Report.

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

Lin, Chien Yu GHG Verifier

Chien Yu Lin

Place and date:

Taipei, 28 June, 2024

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 ⊠HFC₅ ⊠PFC₅ ⊠SF₆ ⊠NF₃

The Quantification of GHG emissions:

The Quantil	cation of GhG emissions:		
	Category	Emission (ton CO₂e)	
Category 1	Direct GHG emissions and removals	1,138.2041	
1.1	Stationary combustion emissions	1.9625	
1.2	Mobile emissions	8.5450	
1.3	Industry process	121-	
1.4	Fugitive emissions	1,127.6966	
Category 2	Indirect GHG emissions from imported energy	15,806.4918	
2.1	Indirect emissions from imported electricity	15,806.4918	
Category 3	Indirect GHG emissions from transportation	1,077.5026	
3.1	Emissions from upstream transport and distribution for goods	769.4095	
3.3	Emissions from employee commuting	298.4212	
3.5	Emissions from Business travel	9.6719	
Category 4	Indirect GHG emissions from products used by an organization	8,640.2708	
4.1	Purchased goods	5,272.9091	
4.1	Purchase Fuel and Energy Emission (Indirect emissions not include in Cat.1 & Cat.2)		
4-3	Emissions from the disposal of solid and liquid waste	251.6040	
	Total	26,662.469	

(The Imported Energy Indirect Emissions was calculated based on 2023 electricity emission factor of 0.494 kg CO2-e/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.)

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□ unmodified □ modified □ adverse