

Independent Assurance Opinion

Statement No.:
C605686-2022-AG-TWN-DNV

Issued date:
19 June, 2023

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This is to verify initiate reporting of Greenhouse Gas Inventory Management Report (2022) of

Chang Wah Technology Co., Ltd.

Scope of Verification

DNV Business Assurance (DNV) has been commissioned by Chang Wah Technology Co., Ltd. (hereafter the "Organization") to perform a verification of the greenhouse gas statements of Greenhouse Gas Inventory Management Report (2022) (hereafter the "Inventory Report") in Taiwan, ROC 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, and 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 Statement

It is DNV's opinion that the Inventory Report (2022), which was published on June 12, 2023 (Ver. 4), 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 (2022) were verified with reasonable level of assurance.
- For the other indirect GHG emissions, the involved information was tested using agreed-upon procedures, AUP, defined in Inventory Report.

Sophia Kim
GHG Verifier



Place and date:
Taipei, 19 June, 2023

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

Supplement to Statement

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 1st January to 31st December, 2022, it is DNV's opinion that relevant 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 Management Control Operational Management Control Equity Share

GHGs Verified

CO₂ CH₄ N₂O HFCs PFCs SF₆ NF₃

The Quantification of GHG emissions and removals in Direct and Indirect Emission Source: Tonnes CO₂ e

Category	BU1	BU2	Total
Direct Emissions	15.8192	551.9963	567.8155
Imported Energy Indirect Emissions	2,266.4284	12,223.7343	14,490.1627
Indirect GHG emissions from transportation	58.0501	1,069.9965	1,128.0466
Indirect GHG emissions from products used by organization	677.4196	7,227.6136	7,905.0332

*: Unless other indicated, the Indirect Emissions was calculated based on 2021 electricity emission factor of 0.509 kg CO₂-e/kwh, which was announced by Bureau of Energy, Ministry of Economic Affairs. The Global Warming Potential (GWP) defined in IPCC AR6 (2023) has been choose and correctly referred by the Organization.

** : The details subcategory of each category could be refer later in the Report.

Verification Opinion

unmodified
 modified
 adverse

Appendix A to Statement No. C605686-2022-AG-TWN-DNV

APPENDIX A

The greenhouse gas statements of Chang Wah Technology Co., Ltd. Greenhouse Gas Inventory Management Report (2022) with respect to the following sites:

Site	Address
BU1	No.24, Kai-Fa Road Nanzih District, Kaohsiung City, Taiwan, (R.O.C.)
BU2	No.16, East 7th St., Nanzih District, Kaohsiung City 811, Taiwan (R.O.C.)

APPENDIX B

The Reporting Boundary of Chang Wah Technology Co., Ltd. Greenhouse Gas Inventory Management Report (2022)

Category	Reporting Boundary
Direct GHG emissions and removals	- Relevant GHG sources or sinks inside organizational boundaries and that are controlled by the organization
Indirect GHG emissions from imported energy	- Indirect emissions from imported electricity, including GHG emissions related to the production and consumption of electricity imported by the organization.
Indirect GHG emissions from transportation	- Upstream transportation and distribution. Transportation of selected purchased Main materials and Auxiliary materials. - Employee commuting. Transportation of employees between their homes and their worksites. - Business travel. Transportation of employees for business-related activities.
Indirect GHG emissions from products used by the Organization	- Upstream (cradle-to-gate) emissions of selected purchased Main materials and Auxiliary materials. - Upstream emissions associated with the purchased electricity and fuels were included. - Waste generated in operations. Disposal and treatment of waste generated, emissions from transportation of waste included.

***The scope of other indirect emissions (other than Imported Energy with specified/limited list of sources) was defined by Organization's own pre-determined criteria for significance of indirect emissions, considering the intended use of the GHG inventory.