



# Independent Assurance Opinion

Verification Opinion No.:  
C614500-2021-AG-TWN-DNV

Issued date:  
23 August, 2023

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This is to verify initiate reporting of Greenhouse Gas Inventory Management Report (2021) of

## LCY Technology Corp. Copper Foil Plant

### Scope of Verification

DNV Business Assurance (DNV) has been commissioned by LCY Technology Corp. Copper Foil Plant ('the Organization') to perform a verification of the greenhouse gas statements of Greenhouse Gas Inventory Management Report (2021) (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 Opinion

It is DNV's opinion that the Inventory Report (2021), which was published on July 12, 2023 (Ver. 1), 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 (2021) 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.

Celine Wang  
GHG Verifier

Place and date:  
Taipei, 23 August, 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

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid. This Verification Opinion is based on the information made available to us and the engagement conditions detailed above. Hence, DNV cannot guarantee the accuracy or correctness of the information. DNV cannot be held liable by any party relying or acting upon this Verification Opinion.

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DNV ZNATW-OP-F50, Rev.10, 2023-2

## 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<sup>st</sup> January, 2021 to 31<sup>st</sup> December, 2021, 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

CO<sub>2</sub>  CH<sub>4</sub>  N<sub>2</sub>O  HFCs  PFCs  SF<sub>6</sub>  NF<sub>3</sub>

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

Category	Direct and indirect GHG emissions categorization*	Emissions and removals verified, (tonnes CO <sub>2</sub> -e)
1	Direct emissions and removals**	400.4180
2	Indirect GHG emissions from imported energy	69,159.8706
3	Indirect GHG emissions from transportation	851.4723
4	Indirect GHG emissions from products used by the Organization	18,773.3630
Total greenhouse gas emissions and removals		89,185.124

\*: Unless other indicated, the Indirect Emissions was calculated based on 2021 electricity emission factor of 0.509 kg CO<sub>2</sub>-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 to Verification Opinion No. C614500-2021-AG-TWN-DNV

## APPENDIX A

The greenhouse gas statements of LCY Technology Corp. Copper Foil Plant Greenhouse Gas Inventory Management Report (2021) with respect to the following sites:

Site	Organization	Address
1	LCY Technology Corp. Copper Foil Plant	No. 3-1, Zhonglin Road, Xiaogang District, Kaohsiung City, Taiwan (R.O.C.)

## APPENDIX B

The Reporting Boundary of LCY Technology Corp. Copper Foil Plant Greenhouse Gas Inventory Management Report (2021)

Category	Reporting Boundary
Direct GHG emissions and removals	-Mainly from fuel consumption, other GHG sources or sinks inside organizational boundaries and that are owned or controlled by the organization.
Indirect GHG emissions from imported energy	-The amount of greenhouse gas emissions produced by the input of electricity and energy.

Category	Subcategory	Reporting Boundary
Indirect GHG emissions from transportation	-Emissions from upstream transport and distribution for goods	- Emissions from regular purchase of raw material transportation, including raw materials, auxiliary materials, packaging materials and filter materials.
	-Emissions from downstream transport and distribution for goods	-Emissions from the transportation and distribution of products.
	-Emissions from employee commuting	- Employees commute. Employee transportation between home and work, including cars and motorcycles or public transportation.
	-Emissions from business travel	-Business travel. Transportation of employees for business-related activities, includes land, sea, and air transportation.
Indirect GHG emissions from products used by the Organization	-Emissions from goods purchased by an organization	-Upstream (cradle-to-gate) emissions from regularly purchased raw materials, except filter materials. -Emissions associated with the production of purchased energy (i.e. upstream emissions associated with fuels and electricity production)
	-Emissions from disposal of solid and liquid waste	-Emissions from the disposal treatment and transportation of solid and liquid waste.

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