

Certificate

Inventory Standard **ISO 14064-1:2018**
Certificate Registr. No. **CF 50589415 0001**
Report No. **48219118 001**

Certificate Holder: **Taiwan Semiconductor Co., Ltd.**
No.31, Sec. 2, Ligong 1st Rd., Wujie Town, I-Lan County 268, Taiwan R.O.C.
including the sites according to annex

Validation & Verification Site:

Validation & Verification Body: **TÜV Rheinland Taiwan Ltd.**

Validation & Verification Standard: ISO 14064-3:2019

Base year: - 2022 (2022.01.01~2022.12.31)

Validation & Verification year: - 2022 (2022.01.01~2022.12.31)

Programme: - Voluntary GHG scheme

Level of Assurance: - Reasonable

Consolidation methodology: - Operational Control

Materiality: - 5%


Type of Greenhouse Gases: - CO₂ · CH₄ · N₂O · HFCs · PFCs · SF₆ · NF₃

Validation & Verification Scope: Based on the information we have received and evaluated that:

- Global warming potential (GWP): IPCC 2007, AR4
- The total carbon emission is 15048.326 tonnes CO₂ equivalent (tCO₂e)
 - Category 1 Direct emission is 34.2474 tCO₂e
 - Category 2 Indirect Imported energy emission is 10341.8620 tCO₂e
 - Category 3 Indirect Transportation emission is 2326.3901 tCO₂e
 - Category 4 Indirect Products used by organization emission is 1996.4447 tCO₂e
 - Category 5 Indirect Associated with the use of products from the organization emission is not quantified
 - Category 6 Indirect Other sources emission is not quantified
- Data and information
 - Historical in nature: Category 1 / 2
 - Historical in nature with scenario models: Category 3 / 4
- 2022 electricity emissions factor not publish, the inventory use 2021 electricity emissions factor for GHGs calculation
- Due to the need to declare the greenhouse gas emissions of the Taiwan Environmental Protection Agency, the GWP adopts the IPCC AR4 coefficient
- This certificate is a replacement of certificate issued on 2023-06-17. Only the accreditation logo has been adjusted, verification conclusion remains.

Validity: This certificate only reviewed the emissions data of inventory year, this certificate is not for the management systems certification.

2023-11-13


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