



VERIFICATION STATEMENT

Project ID: PRJN-917170

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TSMC Japan 3DIC R&D Center, Inc.

< Verification Objectives >

DNV Business Assurance Japan K.K. (hereinafter, "DNV") has been commissioned by TSMC Japan 3DIC R&D Center, Inc. (hereinafter, "the Organization") to conduct an independent verification of the calculation results for greenhouse gas emissions and energy consumption (hereinafter, "GHG emissions and others") for the FY2024 of the organization. The objective of this verification is to confirm that the GHG emissions and others claimed by the Organization have been calculated and reported appropriately based on the calculation standards, and to express an independent opinion.

< Verification Scope >

The scope of this verification covers Scope 1 and Scope 2 GHG emissions of the organization (16-1 Onogawa, Tsukuba-shi, Ibaragi) for FY 2024.

< Calculation and Verification criteria >

The criteria for calculating and reporting GHG emissions to be verified are ISO 14064-1:2018 and The GHG Protocol: Corporate Accounting and Reporting Standard. The criterion for verification is ISO 14064-3:2019.

< Verification Process and Methodology >

The reviews of the GHG emissions and others calculation results, relevant documentation and records, and subsequent follow-up interviews have provided DNV with sufficient evidence to determine the fulfilment of stated criteria.

< Verification Statement >

In DNV's opinion, based on a verification conducted at a reasonable assurance level, sufficient and appropriate evidence has been obtained to conclude that the reported GHG emissions and related assertions are fairly stated and appropriately reflect the organization's GHG emissions. In addition, as an independent third party, DNV has no financial dependencies on the Organization at the group level, not limited to this verification work.

Place and date: Kobe, Japan, 1 September 2025

DNV BUSINESS ASSURANCE JAPAN K.K.

Hiroyuki Kato
Approved Verifier

Sahori Murasawa
Technical Reviewer

Naoki Maeda
Representative Director / SCPA
Senior Vice President

This Verification Statement 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 relaying or acting upon this Verification Statement.

DNV Business Assurance Japan K.K. Sannomiya Bldg. South 11th Floor, 7-1-15, Goko-dori, Chuo-ku, Kobe 651-0087

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< Period Covered by Calculation >

The period covered by GHG emissions and others verification is from 1 January 2024 through 31 December 2024.

< Organization Boundary of Verification >

Management Control Equity Share Others

< Type of GHGs Verified >

CO₂ CH₄ N₂O HFCs PFCs SF₆ NF₃

< Amount of GHG emissions and others Verified >

DNV's opinion is that GHG emissions and others are real, transparent, and measurable. The reported values below are fully covered by the verification.

■ Total amount of Scope 1 + 2 GHG emissions	2,670.45 (t-CO ₂ e)
■ Amount of Scope 1 GHG emissions	195.61 (t-CO ₂ e)
■ Amount of Scope 2 GHG emissions (Location-Based)	2,474.84 (t-CO ₂ e)

Direct GHG emissions from production activities have been offset by acquiring 217 t-CO₂e of J-Credits (IPCC 2019 Tier 2c, AR5 GWP), which were retired on 21 January 2025.

Non-fossil certificates equivalent to 100 % of the electricity consumed during the reporting period have been obtained.

– Certificate type: Tracking-certified Non-Fossil Certificate

– Quantity: 5,743,000 kWh (equal to electricity consumption)

– Issuing body: Japan Electric Power Exchange (JEPX) / Issuance year: 2025

< Verification Opinion >

Unmodified Opinion

Modified Opinion

Adverse Opinion