



LRQA Independent Assurance Statement

Relating to MEMC Korea's Report for the calendar year 2022

Terms of Engagement

This Assurance Statement has been prepared for MEMC Korea.

LRQA was commissioned by MEMC Korea to assure its GHG Report for the calendar year 2022 (hereafter referred to as "the Report").

The Report relates to direct GHG emissions and indirect GHG emissions.

MEMC Korea's geographical boundary includes its operation site located at Cheonan-si, Chungcheongnam-do, Republic of Korea. The main activities of the organization includes manufacturing of silicon wafer and the GHG emissions have been consolidated using operational control.

Management Responsibility

MEMC Korea's management was responsible for preparing the claim, report and conformity with the ISO 14064-1:2018 and for maintaining effective internal controls over the data and information disclosed. LRQA's responsibility was to carry out an assurance engagement on the Report in accordance with our contract with MEMC Korea.

Ultimately, the Report has been approved by, and remains the responsibility of MEMC Korea.

LRQA's Approach

Our verification has been conducted in accordance with ISO 14064-3:2019, '*Specification with guidance for verification and validation of greenhouse gas statements*' to provide limited assurance that GHG data as presented in the Report have been prepared in conformance with ISO 14064-1:2018, '*Specification with guidance at the organizational level for quantification and reporting of greenhouse gas emissions and removals*'.

To form our conclusions the assurance engagement was undertaken as a sampling exercise and covered the following activities:

- conducted site tours of the facilities and reviewed processes related to the control of GHG emissions data and records;
- interviewed relevant staff of the organization responsible for managing GHG emissions data and records; and
- verified historical GHG emissions data and records at an aggregated level for the calendar year 2022.

Level of Assurance & Materiality

In accordance with our contract agreement, the assurance was conducted at a limited level of assurance at a materiality of 5% for Categories 1, 2, 3 and 4. The opinion expressed in this Assurance Statement has been accordingly formed.



LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that the GHG emissions for Categories 1, 2, 3 and 4 disclosed in the Report as summarized in Table 1 below are not materially correct and that the Report has not been prepared in conformance with ISO 14064-1:2018.

Dated: 26 Mar 2023

Byung-Gil Lim
LRQA Lead Verifier
On behalf of LRQA
LRQA reference number: SEO00000969



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Table 1. Summary of MEMC Korea, GHG Emissions Report 2022

Scope of GHG emissions		Tonnes CO ₂ e
Category 1	Direct GHG emissions	5,262
Category 2	Indirect GHG emissions from imported energy (Location-based)	115,562
Category 3	Indirect GHG emissions from upstream transportation	807
	Indirect GHG emissions from downstream transportation	1,303
	Indirect GHG emissions from employee commuting	569
	Indirect GHG emissions from business travel	11
Category 4	Indirect GHG emissions from products used by the organization	74,332
	Indirect GHG emissions from fuel and electricity purchased by the organization	9,372
	Indirect GHG emissions from capital goods purchased by the organization	20,653
	Indirect GHG emissions from waste generated in operations	7,245
Location based and Market based are terminologies from Annex E of ISO 14064-1:2018.		

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LRQA Independent Assurance Statement

Relating to MEMC Korea's Report for the calendar year 2021

Terms of Engagement

This Assurance Statement has been prepared for MEMC Korea.

LRQA was commissioned by MEMC Korea to assure its GHG Emissions Inventory for the calendar year 2021 (hereafter referred to as "the Report").

The Report relates to direct GHG emissions and energy indirect GHG emissions.

MEMC Korea's geographical boundary includes operations of MEMC Korea located at Cheonan-si, Republic of Korea. The main activities of the organization include manufacture of silicon wafer and the GHG emissions have been consolidated using operational control approach.

Management Responsibility

MEMC Korea's management was responsible for preparing the Report and for maintaining effective internal controls over the data and information disclosed. LRQA's responsibility was to carry out an assurance engagement on the Report in accordance with our contract with MEMC Korea.

Ultimately, the Report has been approved by, and remains the responsibility of MEMC Korea.

LRQA's Approach

Our verification has been conducted in accordance with ISO 14064-3:2006, '*Specification with guidance for validation and verification of greenhouse gas assertions*' to provide limited assurance that GHG data as presented in the Report have been prepared in conformance with ISO 14064-1:2006, '*Specification with guidance at the organizational level for quantification and reporting of greenhouse gas emissions and removals*'.

To form our conclusions the assurance engagement was undertaken as a sampling exercise and covered the following activities:

- conducted on-site assessment and reviewed processes related to the control of GHG emissions data and records.
- interviewed relevant staff of the organization responsible for managing GHG emissions data and records; and
- verified historical GHG emissions data and records at an aggregated level for the calendar year 2021.

Level of Assurance & Materiality

In accordance with our contract agreement, the assurance was conducted at a limited level of assurance at a materiality of the professional judgment of the Verifier. The opinion expressed in this Assurance Statement has been accordingly formed.

LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that the total direct GHG emissions and energy indirect GHG emissions disclosed in the Report as summarized in Table 1 below are not materially correct and that the Report has not been prepared in conformance with ISO 14064-1:2006.



Dated: 20 June 2022

Byung-Gil Lim
LRQA Lead Verifier
On behalf of LRQA
17th Floor, Sinsong Building, 67 Yeouinaru-ro, Yeongdeungpo-gu, Seoul, Korea

LRQA reference number: SEO00000969



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Table 1. Summary of MEMC Korea, GHG Emissions Inventory 2021

Scope of GHG emissions	Tonnes CO ₂ e
Direct GHG emissions (Scope 1)	1,235
Energy indirect GHG emissions (Scope 2, Location-based)	111,925
Notes: Scope 2, Location-based is defined in the GHG Protocol Scope 2 Guidance, 2015	

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