

# Independent Limited Assurance Report to MEMC LLC

ERM Certification & Verification Services Incorporated (“ERM CVS”) was engaged by MEMC LLC (“MEMC”) to provide limited assurance in relation to the selected information set out below and presented in the MEMC 2022 GHG Emissions Inventory (the “Report”) for operations at 501 Pearl Dr, St. Peters, MO 63376.

Engagement summary	
Scope of our assurance engagement	<p>Whether the 2022 information and data for the following selected indicators are fairly presented in the Report, in all material respects, in accordance with the reporting criteria.</p> <p>Total Scope 1 GHG emissions [metric tons CO<sub>2</sub>e]  Total Scope 2 GHG emissions [metric tons CO<sub>2</sub>e]  Total Scope 3 GHG emissions for the following categories:</p> <ul style="list-style-type: none"> <li>• Category 1. Purchased goods and services [metric tons of CO<sub>2</sub>e]</li> <li>• Category 2. Capital goods [metric tons of CO<sub>2</sub>e]</li> <li>• Category 4. Upstream transportation and distribution [metric tons of CO<sub>2</sub>e]</li> <li>• Category 5. Waste generated in operations [metric tons of CO<sub>2</sub>e]</li> <li>• Category 6. Business travel [metric tons of CO<sub>2</sub>e]</li> <li>• Category 7. Employee commuting [metric tons CO<sub>2</sub>e]</li> <li>• Category 9. Downstream transportation and distribution [metric tons CO<sub>2</sub>e]</li> </ul> <p>Our assurance engagement does not extend to information in respect of earlier periods or to any other information included in the Report</p>
Reporting period	1st January 2022 to 31st December 2022
Reporting criteria	<p>ISO 14064-1:2018 Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.</p> <p>For transparent reporting and to meet the requirements of the Verification Standard, details of definitions, boundaries, applied methodologies and assumptions must be either included in the Report or published as a standalone document on MEMC’s website.</p>
Assurance standard and level of assurance	<p>We performed a limited assurance engagement, in accordance with the ISO 14064-3:2019 Specification with guidance for the verification and validation of greenhouse gas statements.</p> <p>The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for a reasonable assurance engagement and consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.</p>
Respective responsibilities	<p>MEMC is responsible for preparing the Report and for the collection and presentation of the information within it, and for the designing, implementing and maintaining of internal controls relevant to the preparation and presentation of the Report.</p> <p>ERM CVS’ responsibility is to provide conclusions to MEMC on the agreed scope based on our engagement terms with MEMC, the assurance activities performed and exercising our professional judgement.</p>

## Our conclusion

Based on our activities, as described below, nothing has come to our attention to indicate that the 2022 data and information for the disclosures listed under 'Scope' above are not fairly presented in the Report, in all material respects, in accordance with the reporting criteria.

## Our assurance activities

Considering the level of assurance and our assessment of the risk of material misstatement of the Report, a multi-disciplinary team of sustainability and assurance specialists performed a range of procedures that included, but was not restricted to, the following:

- Assessing the appropriateness of the reporting criteria for the information in scope.
- Interviews with management representatives responsible for managing operations and EHS.
- Interviews with relevant staff to understand and evaluate the relevant management systems and processes (including internal review and control processes) used for collecting and reporting the selected disclosures.
- A review of a sample of qualitative and quantitative evidence supporting the reported information.
- An analytical review of the year-end activity data included in the consolidated 2022 GHG data for the selected disclosures which included testing the completeness and mathematical accuracy of calculations, and consolidation in line with the stated reporting boundary.
- Visit to MEMC's production site in St. Peters, Missouri, United States to obtain comprehensive understanding of emissions sources, review source data, and local reporting systems and controls.
- Confirming conversion and emission factors and assumptions used.
- Reviewing the presentation of information relevant to the scope of our work in the Report to ensure consistency with our findings.

## The limitations of our engagement

The reliability of the assured information is subject to inherent uncertainties, given the available methods for determining, calculating or estimating the underlying information. It is important to understand our assurance conclusions in this context.

## Our independence, integrity and quality control

ERM CVS is an independent certification and verification body accredited by UKAS to ISO 17021:2015. Accordingly we maintain a comprehensive system of quality control, including documented policies and procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements. Our quality management system is at least as demanding as the relevant sections of ISQM-1 and ISQM-2 (2022).

ERM CVS applies a Code of Conduct and related policies to ensure that its employees maintain integrity, objectivity, professional competence and high ethical standards in their work. Our processes are designed and implemented to ensure that the work we undertake is objective, impartial and free from bias and conflict of interest. Our certified management system covers independence and ethical requirements that are at least as demanding as the relevant sections of the IESBA Code relating to assurance engagements.

ERM CVS has extensive experience in conducting assurance on environmental, social, ethical and health and safety information, systems and processes, and provides no consultancy related services to MEMC in any respect.



Heather I. Moore  
Partner, Corporate Assurance  
New York, NY

19 January 2023

# Independent Limited Assurance Statement to MEMC LLC

ERM Certification and Verification Services, Inc (“ERM CVS”) was engaged by MEMC LLC (“MEMC”) to provide limited assurance in relation to the selected information set out below and presented in the MEMC 2021 GHG Emissions Inventory (“the Report”) for operations at 501 Pearl Dr, St Peters, MO 63376.

Engagement summary	
Scope of our assurance engagement	<p>Whether the 2021 information and data for the following selected indicators are fairly presented in the Report, in all material respects, in accordance with the reporting criteria:</p> <ul style="list-style-type: none"> <li>Total Scope 1 GHG emissions [metric tons CO<sub>2</sub>e]</li> <li>Total Scope 2 GHG emissions (location- based) [metric tons CO<sub>2</sub>e]</li> <li>Total Scope 3 GHG emissions for the following categories <ul style="list-style-type: none"> <li>Category 1. Purchased goods and services [metric tons of CO<sub>2</sub>e]</li> <li>Category 2. Capital goods [metric tons of CO<sub>2</sub>e]</li> <li>Category 5. Waste generated in operations [metric tons CO<sub>2</sub>e]</li> <li>Category 7. Employee commuting [metric tons CO<sub>2</sub>e]</li> </ul> </li> </ul> <p>Our assurance engagement does not extend to information outside the reporting period or to any other information included in the Report.</p>
Reporting period	January 1st, 2021 - December 31st, 2021
Reporting criteria	<ul style="list-style-type: none"> <li>ISO 14064-1:2018 Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.</li> <li>MEMC basis of reporting as described in the Report.</li> </ul>
Assurance standard and level of assurance	<p>We performed a limited assurance engagement, in accordance with ISO 14064-3:2019 Greenhouse gases — Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions.</p> <p>The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for a reasonable assurance engagement and consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.</p>
Respective responsibilities	<p>MEMC is responsible for preparing the Report and for the collection and presentation of the information within it, and for the designing, implementing and maintaining of internal controls relevant to the preparation and presentation of the information in scope.</p> <p>ERM CVS’ responsibility is to provide conclusions to MEMC on the agreed scope based on our engagement terms with MEMC, the assurance activities performed and exercising our professional judgement. We accept no responsibility, and deny any liability, to any party other than MEMC for the conclusions we have reached.</p>

## Our conclusion

Based on our activities, as described below, nothing has come to our attention to indicate that the 2021 data and information for the disclosures listed under ‘Scope’ above are not fairly presented, in all material respects, in accordance with the reporting criteria.

- Total Scope 1 GHG emissions: 6,102 metric tons CO<sub>2</sub>e
- Total Scope 2 GHG emissions (location- based): 37,845 metric tons CO<sub>2</sub>e
- Total Scope 3 GHG emissions for the following categories
  - Category 1. Purchased goods and services: 31,179 metric tons of CO<sub>2</sub>e
  - Category 2. Capital goods: 4,138 metric tons of CO<sub>2</sub>e
  - Category 5. Waste generated in operations: 710 metric tons CO<sub>2</sub>e
  - Category 7. Employee commuting: 707 metric tons CO<sub>2</sub>e

### Our assurance activities

Considering the level of assurance and our assessment of the risk of material misstatement of the information in scope a multi-disciplinary team of sustainability and assurance specialists performed a range of procedures that included, but were not restricted to, the following:

- Assessing the appropriateness of the reporting criteria for the information in scope
- Interviews with management representatives responsible for managing operations and EHS.
- Interviews with relevant staff to understand and evaluate the relevant management systems and processes (including internal review and control processes) used for collecting and reporting the selected disclosures.
- A review of a sample of qualitative and quantitative evidence supporting the reported information.
- An analytical review of the year-end activity data included in the consolidated 2021 GHG data for the selected disclosures which included testing the completeness and mathematical accuracy of calculations, and consolidation in line with the stated reporting boundary.
- Visit to MEMC's production site in St. Louis, Missouri, United States to obtain comprehensive understanding of emissions sources, review source data, and local reporting systems and controls.
- Confirming conversion and emission factors and assumptions used.
- Reviewing the presentation of information relevant to the scope of our work in the Report to ensure consistency with our findings.

### The limitations of our engagement

The reliability of the assured information is subject to inherent uncertainties, given the available methods for determining, calculating or estimating the underlying information. It is important to understand our assurance conclusions in this context.

### Our independence, integrity and quality control

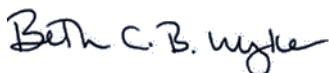
ERM CVS is an independent certification and verification body accredited by UKAS to ISO 17021:2015. Accordingly we maintain a comprehensive system of quality control, including documented policies and procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements. Our quality management system is at least as demanding as the relevant sections of ISQM-1 and ISQM-2 (2022).

ERM CVS applies a Code of Conduct and related policies to ensure that its employees maintain integrity, objectivity, professional competence and high ethical standards in their work. Our processes are designed and implemented to ensure that the work we undertake is objective, impartial and free from bias and conflict of interest. Our certified management system covers independence and ethical requirements that are at least as demanding as the relevant sections of Parts A & B of the IESBA Code relating to assurance engagements. The team that has undertaken this assurance engagement has extensive experience in conducting assurance on environmental, social, ethical and health and safety information, systems and processes, and provides no consultancy related services to MEMC in any respect.

### Other Matters - observations

We have provided MEMC with a separate management report with our detailed (non-material) findings and recommendations. Without affecting the conclusion presented above, we have the following key observation:

- MEMC should continue to evaluate sources of upstream and downstream transportation data to include all relevant Scope 3 categories in the scope of assurance.



Beth Wyke  
Partner, Corporate Assurance Services  
Malvern, PA

5 January 2023