

Independent Assurance Statement

Introduction

DNV Business Assurance USA, Inc. (DNV) has been commissioned by the management of Lam Research Corporation (Lam) to carry out an independent limited level assurance engagement of Selected Information for calendar year 2021 and, where marked, for Calendar Years 2019 and 2020, as presented in Lam’s 2021 Sustainability Disclosures (the “Report”). The assurance was carried out March through May 2022.

Lam has sole responsibility for preparation of the data and external report. DNV, in performing our assurance work, is responsible to the management of Lam. Our assurance statement, however, represents our independent opinion and is intended to inform all stakeholders including Lam.

Scope of Assurance

The scope of work agreed with Lam includes the following:

Organizational boundary

- All global facilities under Lam’s operational control

Data Verified for the period of January 1, 2021, to December 31, 2021 (CY 2021)

- GHG Emissions Scope 1 and 2
- Energy Consumption
- Energy Savings
- Waste & Waste Data Diversion Rate (including Hazardous Waste)
- Total Recordable Incident Rate (TRIR)

Data Verified for the period of January 1, 2020, to December 31, 2020 (CY 2020)

- GHG Emissions Scope 1 and 2

Data Verified for the period of January 1, 2019, to December 31, 2019 (CY 2019)

- GHG Emissions Scope 1 and 2

We do not express conclusions on other information that may be published on Lam’s website or sustainability disclosures for the current reporting period or previous periods.

Topic	Accounting Metric	Unit of Measure
Greenhouse Gas Emissions	(1) 2021 Gross global Scope 1 and 2 emissions (2) 2020 Gross global Scope 1 and 2 emissions (3) 2019 Gross global Scope 1 and 2 emissions	Metric tons (MT) CO ₂ e
Energy Consumption	(1) 2021 Total energy consumed	Kilowatt hrs (kWh)
Energy Savings	(1) 2021 Energy savings achieved	Kilowatt hrs (kWh)
Waste Management	(1) 2021 Total amount of hazardous waste (2) 2021 Total amount non-hazardous waste generated (3) 2021 Total percentage hazardous waste recycled (4) 2021 Total non-hazardous waste recycled	Metric tons (MT) Percentage (%)
Employee Health & Safety	(1) Total Recordable Incident Rate (TRIR)	Rate per 200,000 hrs
Progress towards 2025 Goals	(1) 2021 GHG Scope 1 and 2 emissions (market-based) change against 2019 baseline (2) Hazardous waste to landfill	Percentage (%)

Level of Assurance

We performed a limited assurance engagement in accordance with the *International Standard on Assurance Engagements (ISAE) 3000 (revised) – ‘Assurance Engagements other than Audits and Reviews of Historical Financial Information’*, issued by the International Auditing and Assurance Standards Board. This standard requires that we comply with ethical requirements and plan and perform the assurance engagement to obtain limited assurance.

DNV applies its own management standards and compliance policies for quality control, in accordance with *ISO/IEC 17021:2015-1 - Conformity Assessment Requirements* for bodies providing audit and certification of management systems, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

The procedures performed in a limited assurance engagement vary in nature and timing and are less detailed than those undertaken during a reasonable assurance engagement, so the level of assurance obtained is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed. We planned and performed our work to obtain the evidence we considered sufficient to provide a basis for our opinion, so that the risk of this conclusion being in error is reduced, but not reduced completely.

DNV’s assurance engagements are based on the assumption that the data and information provided by the client to us as part of our review have been provided in good faith. This includes but is not limited to sales and acquisitions, building occupancy rates and operating hours, and financial/operational control. DNV expressly disclaims any liability or co-responsibility for any decision a person or an entity may make based on this Independent Assurance Statement.

Assurance Team

Role	Name
Project Manager/Verifier	Angela Reed
Lead Verifier	Kyle Silon
Lead Verifier	Stephen Carlson
Technical Reviewer	Shruthi Bachamanda

Assurance Methodology

DNV is a leading provider of sustainability services, including verification of GHG emissions data and other environmental metrics. Our environmental and social assurance specialists work in over 100 countries.

In that respect, the environmental footprint inventories have been evaluated against the following reporting criteria:

- World Business Council for Sustainable Development (WBCSD) / World Resources Institute (WRI) Greenhouse Gas Protocol, A Corporate Accounting and Reporting Standard REVISED EDITION

DNV used a risk-based approach throughout the assurance engagement, concentrating on the areas that we believe are most material for both Lam and its stakeholders. DNV applied a materiality threshold of five percent for all data in scope.

The assurance process involved a series of 60-minute interviews with the accountable party(ies) and/or senior manager(s) responsible for collating the information at a corporate level to:

- Perform a walkthrough to understand how data is managed and reported and the systems, legal registers, processes, and procedures used
- Interview of managers and data users representing relevant functions for supporting the environmental inventory and safety data management process
- Review the controls in place to confirm data and information accuracy
- Confirm the scope and boundaries of the data included
- Requests for further evidence and documentation in support of testimony and system observations

The assurance process includes desk review of the submitted documentation, data records and sources relating to the selected performance metrics and corporate environmental footprint data claims.

- Review of the processes and tools used to collect, aggregate, and report on all data and metrics
- Assessment of environmental and other information systems and controls, including:
 - Selection and management of all relevant environmental and safety data and information
 - Processes for collecting, processing, consolidating, and reporting the environmental and safety data and information
 - Systems and processes that ensure the accuracy of the performance data and information
 - Design and maintenance of the environmental and employee workforce and safety information system
 - Systems and processes that support the environmental and employee workforce and safety information system
 - Performed sample-based audits of the processes for generating, gathering, and managing the data
- Performed key data recalculations to confirm accuracy
- Examination of the social, governance, and environmental data and information to develop evidence for the assessment of the claims and assertions made
- Evaluation of whether the organization conforms to the reporting criteria
- Evaluation of whether the evidence and data are sufficient and support Lam's environmental, social and performance claims
- Conducted remote site assessment at Fremont, California to review GHG emissions, energy, waste, and health and safety management

In addition to the above, specific to the environmental indicators, the following steps were conducted for Energy Savings and Waste:

Energy Savings

- Review of energy conservation measures implemented in the reporting year
- Conducted sample-based review of the process for quantifying energy savings performance including:
 - Evaluation of reasonableness and conservativeness of assumptions related to energy baseline and savings calculated from energy conservation measures
 - Desk-based review of energy calculations provided by Lam and energy consultants

Waste

- Review of the waste segregation methodology and description of waste categorization
- Conduct data checks for the waste data collected, transferred, and calculated
- Perform sample-based assessment of data reported against the source data (waste collected to landfill and waste diverted) provided by waste management companies.

Data Verified

Greenhouse Gas Emissions – CY2021

- Scope 1 Emissions 50,664 MT CO₂e
- Scope 2 Emissions (location-based) 109,627 MT CO₂e
- Scope 2 Emissions (market-based) 56,521 MT CO₂e

Greenhouse Gas Emissions – CY2020

- Scope 1 Emissions 38,788 MT CO₂e
- Scope 2 Emissions (location-based) 87,170 MT CO₂e
- Scope 2 Emissions (market-based) 75,884 MT CO₂e

Greenhouse Gas Emissions – CY2019

- Scope 1 Emissions 36,162 MT CO₂e
- Scope 2 Emissions (location-based) 83,513 MT CO₂e
- Scope 2 Emissions (market-based) 82,296 MT CO₂e

Energy Consumption – CY2021

- Total Energy Consumed 402,343,642 kWh

Energy Savings – CY2021

- Energy Savings Achieved Greater than 2,000,000 kWh

Waste – CY2021

- Total Hazardous Waste 2,208 MT
- Hazardous Waste Recycled 24%

- Total Non-Hazardous Waste 8,505 MT
- Non-hazardous Waste Recycled 71%

Employee Health & Safety – CY 2021

- Total Recordable Incident Rate (TRIR) 0.40

Progress towards 2025 ESG Goals

- CY 2021 Scope 1 and 2 (market-based) emissions against 2019 baseline - 9.5%
- CY 2020 Scope 1 and 2 (market-based) emissions against 2019 baseline - 3.2%
- CY 2021 Hazardous Waste to Landfill 1%

Inherent Limitations

Due to the selective nature (sampling) and other inherent limitations of both procedures and systems of internal control, there remains the unavoidable risk that errors or irregularities may not have been detected. Calculations of energy savings are subject to inherent limitations, given the nature and the methods used for determining such data. DNV did not conduct independent measurement of the energy savings variables. This is a limitation which can influence the accuracy of our opinion. Finally, the selection of different but acceptable measurement techniques, in particular related to the waste and energy savings performance, may result in materially different measurements.

Assurance Opinion

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the information and data within the Report is not fairly stated and has not been prepared, in all material respects, in accordance with the criteria stated. This conclusion relates only to the information in the Report and is to be read in the context of this Assurance Statement.

Independence

DNV was not involved in the preparation of any part of Lam’s data or report. This is our first year of providing assurance for Lam. We adopt a balanced approach towards all stakeholders when performing our evaluation.



DNV Business Assurance USA, Inc.
Katy, Texas
June 22, 2022

This Statement is for the sole use and benefit of the party contracting with DNV Business Assurance USA, Inc. to produce this Statement (the “Client”). Any use of or reliance on this document by any party other than the Client shall be at the sole risk of such party. In no event will DNV or any of its parent or affiliate companies, or their respective directors, officers, shareholders, employees, or subcontractors, be liable to any other party regarding any statements, findings, conclusions, or other content in this Statement, or for any use of, reliance on, accuracy, or adequacy of this Statement

About DNV

Driven by our purpose of safeguarding life, property, and the environment, DNV enables organizations to advance the safety and sustainability of their business. Combining leading technical and operational expertise, risk methodology and in-depth industry knowledge, we empower our customers’ decisions and actions with trust and confidence. We continuously invest in research and collaborative innovation to provide customers and society with operational and technological foresight.

Appendix. Selected Information's Criteria

Topic	Criteria		
Greenhouse Gas Emissions/ Energy Consumption	World Business Council for Sustainable Development (WBCSD) / World Resources Institute (WRI) Greenhouse Gas Protocol, A Corporate Accounting and Reporting Standard REVISED EDITION		
Energy Savings	<p>Description: (1) 2021 Energy savings achieved Energy savings achieved as a result of energy conservation measures (ECM) implemented at all global facilities under Lam's operational control in the reporting year. Savings quantified in comparison to energy baseline (energy consumption occurring without implemented ECM.)</p>	<p>Methodology: Total sum of energy savings achieved across all ECMS implemented in the reporting year.</p>	<p>Unit of measure: Kilowatt hours (kWh)</p>
Waste Management	<p>Description: (1) 2021 Total amount of hazardous waste Hazardous waste generated at all global facilities under Lam's operational control in the reporting year.</p> <p>(2) 2021 Total amount non-hazardous waste generated Non-hazardous waste generated at all global facilities under Lam's operational control in the reporting year.</p> <p>(3) 2021 Total percentage hazardous waste recycled Hazardous waste disposed by means of recycling across global facilities under Lam's operational control in the reporting year.</p> <p>(4) 2021 Total non-hazardous waste recycled Non-hazardous waste disposed by means of recycling across global facilities under Lam's operational control in the reporting year.</p>	<p>Methodology: (1) Total sum of hazardous waste generated cross global facilities in the reporting year.</p> <p>(2) Total sum of non-hazardous waste generated across global facilities under Lam's operational control in the reporting year.</p> <p>(3) Total metric tons of hazardous waste recycled / total metric tons of hazardous waste generated X 100</p> <p>(4) Total metric tons of non-hazardous waste recycled / total metric tons of non-hazardous waste generated X 100</p>	<p>Unit of Measure: (1) Metric tons (MT) (2) Metrics tons (MT) (3) Percentage (%) (4) Percentage (%)</p>
Employee Health & Safety	<p>(1) Total Recordable Incident Rate (TRIR) Number of incidents reported per 100 full time employees against the number of hours worked. In 2021 reporting year, employee hours worked was assumed to be 2080, per Lam full time employees.</p>	<p>Methodology: (Total number of incidents X 200,000) / Full time equivalent headcount X 2080</p>	<p>Unit of measure: Rate per 200,000 hrs</p>