Independent Assurance Report to Moderna Inc.

ERM Certification & Verification Services Incorporated ("ERM CVS") was engaged by Moderna Inc. ("Moderna") to provide limited and reasonable assurance in relation to the selected information set out below and presented in Moderna's 2023 ESG Report and on Moderna's Modernatx.com - Responsibility - Corporate Policies website ("the Disclosures").

Engagement summary		
	Whether the 2021, 2022 and 2023 data for the specified indicators listed below are fairly presented in the Disclosures, in all material respects, in accordance with the reporting criteria.	
Scope of our assurance engagement	Energy and GHG Emissions Indicators Total Scope 1 GHG emissions [MT CO2e] and by gas: CO2, CH4 and N2O in CO2e Total Scope 2 GHG emissions (location-based) [MT CO2e] Natural Gas Consumed [MWh] Diesel Consumed [MWh] Direct Energy [Total Stationary sources] (MWh) Total Purchased Electricity [MWh] Purchased Renewable Electricity [MWh] (location-and market-based) Purchased Renewable Electricity [MWh] (location and market-based) Purchased Renewable Electricity [MWh] (location-and market-based) Purchased Renewable Electricity [MWh] (location-and market-based) Purchased Renewable Electricity [MWh] (location-and market-based) Vater and Waste indicators: Total Water Intake (Withdrawal – third party sources) [m3] Total Hazardous Waste [MT] Incinerated with Energy Recovery Recycled Landfill Total Non-hazardous Waste [MT] Incinerated without Energy Recovery Incinerated without Energy Recovery Composted Recycled Landfill Treated	
	 Health and Safety indicators: Employee Fatalities (no.) Lost time Injuries (no.) Injuries requiring Job Transfer or Restriction (no.) Other Recordable Injuries (no.) Total Recordable Injury Rate (TRIR) (rate) Days Away, Restricted or Transferred Rate (DART) (rate) Lost Time Injury Frequency Rate (LTIFR) (rate) Our assurance engagement does not extend to information in respect of earlier periods or to any other information included in the Report. 	
Reporting periods	 January 1, 2023 – December 31, 2023 January 1, 2022 – December 31, 2022 (restatement of Energy and GHG Emissions Indicators) January 1, 2021 – December 31, 2021 (restatement of Energy and GHG Emissions Indicators) 	
Reporting criteria	 WBCSD/WRI GHG Protocol (2004, as updated January 2015) for the Scope 1 and Scope 2 GHG emissions OSHA Injury and Illness Recordkeeping and Reporting definitions for safety indicators Modern's internal reporting criteria and definitions for all other indicators as described in footnotes in the Disclosures 	

Assurance standard and level of assurance	We performed a combination of reasonable and limited assurance engagement for the scope as identified above, in accordance with the International Standard on Assurance Engagements ISAE 3000 (Revised) 'Assurance Engagements other than Audits or Reviews of Historical Financial Information issued by the International Auditing and Assurance Standards Board.
	Reasonable assurance
	Energy and GHG Emissions indicators for 2022 and 2023.
	Limited assurance
	All other scopes set out under 'Scope of our assurance engagement', above for 2021 and 2023.
	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.
Respective responsibilities	Moderna is responsible for preparing the Report and Moderna's website content 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 and Moderna's website content.
	For limited and reasonable assurance, ERM CVS' responsibility is to provide an opinion to Moderna on the agreed scope based on our engagement terms with Moderna, the assurance activities performed and exercising our professional judgement. Our procedures aimed at obtaining reasonable assurance for the referenced scope have been performed with a high, but not absolute, level of assurance which means we may not detect all material errors.

Our Reasonable Assurance opinion

In our opinion, the selected 2022 and 2023 GHG Emission and Energy Indicators as described under 'Scope' above are prepared, in all material respects, in accordance with the reporting criteria.

Our Limited Assurance conclusion

Based on our activities, as described below, nothing has come to our attention to indicate that the 2021, 2022, 2023 Water and Waste Indicators, and Health and Safety Indicators, for the information listed under 'Scope' above are not fairly presented in the Disclosures, in all material respects, in accordance with the reporting criteria.

Our assurance activities

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

- Evaluating the appropriateness of the reporting criteria for the selected information.
- Interviews with relevant staff to understand and evaluate the management systems and processes (including internal review and control processes) used for collecting and reporting the selected information.
- Evaluating relevant reporting systems and processes (including internal control processes).
- Reviewing quantitative and qualitative evidence supporting the reported information.
- Performing an analytical review of the year-end data submitted by all locations included in the consolidated 2021, 2022 and 2023 group data for the selected disclosures which included testing the completeness and mathematical accuracy of conversions and calculations, and consolidation in line with the stated reporting boundary.
- Conducting visits to Moderna's operations in Massachusetts, United States to review source data and local reporting systems and controls.
- Confirming conversion and emission factors and assumptions used.
- Reviewing the presentation of the assured information 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 independent assurance report provides no assurance on the maintenance and integrity of Moderna's website, including controls used to achieve this, and in particular whether any changes may have occurred to the assured information since it was first published.

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 Moderna in any respect.

Andrea Duque Partner, Corporate Assurance Services Malvern, PA

June 14, 2024

On behalf of

ERM Certification & Verification Services Incorporated <u>www.ermcvs.com</u> | <u>post@ermcvs.com</u>

