



# LRQA Independent Assurance Statement

## Relating to Panasonic Group's Environmental Data within its Sustainability Data Book 2022 for the fiscal year 2022

This Assurance Statement has been prepared for Panasonic Holdings Corporation in accordance with our contract.

### Terms of Engagement

LRQA Limited ("LRQA") was commissioned by Panasonic Holdings Corporation ("the Company") to provide independent assurance on its environmental data within its Sustainability Data Book 2022 ("the report") for the fiscal year 2022 (from 1 April 2021 to 31 March 2022) against the assurance criteria below to a limited level of assurance and materiality of the professional judgement of the verifier using ISAE 3000 (Revised) and ISO 14064-3:2019 for greenhouse gas (GHG) emissions.

Our assurance engagement covered 238 manufacturing sites in the Company and its consolidated subsidiaries located in Japan and overseas, and specifically the following requirements:

- Verifying conformance with the Company's reporting methodologies for the selected datasets:
- Evaluating the accuracy and reliability of data for only the selected indicators listed below: <sup>1 2</sup>
  - Energy-oriented CO<sub>2</sub> emissions in Production activities (tCO<sub>2</sub>) and Basic Unit (10ktCO<sub>2</sub>e /10bil-Yen)
  - GHG emissions other than CO<sub>2</sub> from energy use in Production Activities (tCO<sub>2</sub>e)
  - Scope 1 GHG emissions in Production activities (including the breakdown of the GHGs) (tCO<sub>2</sub>e)
  - Scope 2 GHG emissions in Production activities (including the breakdown of the GHGs) (tCO<sub>2</sub>e)
  - CO<sub>2</sub> emissions for logistics (tCO<sub>2</sub>e) <sup>3</sup>
  - Scope 3 GHG emissions Category.11 (Use of sold products) (tCO<sub>2</sub>e) <sup>3</sup>
  - Amount of renewable energy consumption (GWh) <sup>4</sup>
  - Energy consumption in Production activity (GWh)
  - Amount of Total Wastes and revenue-generating waste (Tonnes)
  - Water consumption in Production activities (m<sup>3</sup>)
  - Release / Transfer of Substances Requiring Management (Total) (Tonnes) <sup>5</sup>
  - Amount of energy used (Products and Services) (GWh)
  - Amount of energy created (Products and Services) (GWh)
  - Zeroization of CO<sub>2</sub> emissions (7 sites and 9 plants) <sup>6</sup>

LRQA's responsibility is only to the Company. LRQA disclaims any liability or responsibility to others as explained in the end footnote. The Company's responsibility is for collecting, aggregating, analysing and presenting all the data and information within the report and for maintaining effective internal controls over the systems from which the report is derived. Ultimately, the report has been approved by, and remains the responsibility of the Company.

<sup>1</sup> LRQA undertook a limited assurance engagement of the environmental data marked with "✓" within Sustainability Data Book 2022.

<sup>2</sup> GHG quantification is subject to inherent uncertainty.

<sup>3</sup> Only the logistics in Japan is covered. However, some data that could not be collected due to operate in a separate operation system are excluded from the scope.

<sup>4</sup> These are the results for the entire Panasonic Group, including non-manufacturing sites.

<sup>5</sup> Some consolidated subsidiaries that don't have data collection and aggregation systems in place are not in the scope.

<sup>6</sup> The scope is 9 plants at 7 location which are PANASONIC ECO TECHNOLOGY CENTER CO.,LTD.(PETEC), PANASONIC DO BRASIL LTD.(PANABRAS)(includes 3 factories (San Jose, Extrema, Manaus) ), PANASONIC CENTROAMERICANA S.A.(PCA), PANASONIC ENERGY (WUXI) CO.,LTD.(PECW), SANYO ENERGY(SUZHOU)CO.,LTD.(SEC(SUZ)), PANASONIC MANUFACTURING(BEIJING) CO.,LTD.(PMFBJ), and PANASONIC ENERGY (THAILAND) CO.,LTD.(PECTH).



### LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that the Company has not, in all material respects:

- Met the requirements of the criteria listed above
- Disclosed accurate and reliable environmental data

The opinion expressed is formed on the basis of a limited level of assurance<sup>7</sup> and at the materiality of the professional judgement of the verifier.

### LRQA's Approach

LRQA's assurance engagements are carried out in accordance with ISAE 3000 (Revised) and ISO 14064-3:2019 for GHG emissions. The following tasks were undertaken as part of the evidence gathering process for this assurance engagement:

- Auditing the Company's data management systems to confirm that there were no significant errors, omissions or misstatements in the report. We did this by reviewing the effectiveness of data handling procedures, instructions and systems, including those for internal verification.
- Interviewing with those key people responsible for compiling the data and drafting the report.
- Sampling datasets and traced activity data back to aggregated levels;
- Verifying the historical environmental data and records for the fiscal year 2022; and
- Visiting Panasonic Eco Systems to confirm the data collection processes, record management practices, and to physically check the main facilities in the scope of the site.
- Visited Panasonic Eco Systems Co., Ltd. to confirm the data collection processes, record management practices, and to physically check their facilities.
- By implementing the Company's "No Visitor" Policy due to the global infection spread of COVID-19, conducting the remote verification to Panasonic Energy (Wuxi) Co., Ltd. and Panasonic Motor (Zhuhai) Co., Ltd. for confirming the effectiveness of its data management systems via emails and Microsoft Teams.
- In order to achieve practically zero CO<sub>2</sub> emissions, verified that each site has achieved full renewable energy use through the use of renewable energy contracts or non-fossil certificates for electricity, and each site has achieved carbon neutrality by using available carbon credits for carbon offset.<sup>8</sup>

### Observations

Further observations, made during the assurance engagement, is:

It is recommended the Company will continue to maintain the high-level data management systems and discover further improvement opportunities proactively to ensure accurate aggregation and calculation of environmental data.

### LRQA's Standards, Competence and Independence

LRQA implements and maintains a comprehensive management system that meets accreditation requirements for ISO 14065 *Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition* and ISO/IEC 17021-1 *Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part1: Requirements* that are at least as demanding as the requirements of the International Standard on Quality Control 1 and comply with the *Code of Ethics for Professional Accountants* issued by the International Ethics Standards Board for Accountants.

---

<sup>7</sup> The extent of evidence-gathering for a limited assurance engagement is less than for a reasonable assurance engagement. Limited assurance engagements focus on aggregated data rather than physically checking source data at sites. Consequently, the level of assurance obtained in a limited assurance engagement is lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.

<sup>8</sup> The Company's total GHG emissions are offset by the carbon credit. While LRQA confirmed that these offset credits have been obtained by the Company and offset appropriately, but LRQA has not taken any action against the provider of these carbon credits and expresses no opinion as to whether the offset credits will result in a reduction in CO<sub>2</sub>.



LRQA ensures the selection of appropriately qualified individuals based on their qualifications, training and experience. The outcome of all verification and certification assessments is then internally reviewed by senior management to ensure that the approach applied is rigorous and transparent.

LRQA is the Company's certification body for ISO 9001, ISO14001, IATF16949 and AS9100. These certification services do not compromise LRQA's independence or impartiality with respect to the assurance services that LRQA provides to the Company.

Signed

Dated: 11 July 2022

A handwritten signature in black ink, appearing to read 'N. Kinoshita', is written over a faint, light-colored signature line.

Norihiko Kinoshita

LRQA Lead Verifier

On behalf of LRQA Limited

10th Floor, Queen's Tower A, 2-3-1 Minatomirai, Nishi-ku, Yokohama, JAPAN

LRQA reference: YKA00001034

LRQA, its affiliates and subsidiaries, and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'LRQA'. LRQA assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant LRQA entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

The English version of this Assurance Statement is the only valid version. LRQA assumes no responsibility for versions translated into other languages.

This Assurance Statement is only valid when published with the report to which it refers. It may only be reproduced in its entirety.

Copyright © LRQA, 2022.