



# LRQA Independent Assurance Statement

## Relating to Global Green Chemicals Public Company Limited (GGC)'s GHG Report for the calendar year 2021

This Assurance Statement has been prepared for Global Green Chemicals Public Company Limited (GGC) in accordance with our contract but is intended for the readers of this Report.

### Terms of engagement

LRQA (Thailand) Limited was commissioned by Global Green Chemicals Public Company Limited (GGC) to provide independent assurance on its GHG report ("the report") against the AccountAbility's AA1000AS v3 assurance criteria to a moderate level of assurance for the GRI specific standard disclosures listed below and materiality level of the professional judgement of the verifier is applied, where the scope was a Type 2 engagement.

Our assurance engagement covered GGC's operations and activities in Thailand only and specifically the following requirements:

- Evaluating the reliability of data and information for only the selected environmental indicators listed below:
  - GRI 305-1: Direct GHG emissions (Scope 1)<sup>2</sup>
  - GRI 305-2: Energy indirect GHG emissions (Scope 2)
  - GRI 305-3: Other indirect GHG emissions (Scope 3 – only Transmission Loss)

Our assurance engagement excluded the data and information of GGC's operations and activities outside Thailand, as well as suppliers, contractors and any third parties mentioned in the report.

LRQA's responsibility is only to GGC. LRQA disclaims any liability or responsibility to others as explained in the end footnote. GGCs' 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 GGC.

### LRQA's Opinion

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

- Met the requirements above
- Disclosed reliable performance data and information as no errors or omissions were detected

The opinion expressed is formed on the basis of a moderate level of assurance and at the materiality of the professional judgement of the verifier.

**Note:** The extent of evidence-gathering for a moderate level of assurance engagement is less than for a moderate level of assurance engagement. Moderate assurance engagements focus on aggregated data rather than physically checking source data at sites. Consequently, the level of assurance obtained in a moderate assurance engagement is substantially lower than the assurance that would have been obtained had a moderate assurance engagement been performed.

### LRQA's approach

LRQA's assurance engagements are carried out using AA1000AS v3. The following tasks though were undertaken as part of the evidence gathering process for this assurance engagement:

- Auditing GGC's data management systems to confirm that there were no significant errors, material mis-statements in the report. We did this by reviewing the effectiveness of data handling procedures, instructions, and systems, including those for internal verification. We also spoke with those key people responsible for compiling the data and drafting the report.
- Sampling of evidence during remote verification for only the selected indicators to confirm its reliability.

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<sup>1</sup> <https://www.globalreporting.org>

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



## Observations

Further observations and findings, made during the assurance engagement, is:

- Reliability: Data management systems are properly defined for the selected environmental indicators. However, we believe that GGC’s future reports should extend to all significant GHG Scope 3.

## LRQA’s standards, competence and independence

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.

This verification is the only works undertaken by LRQA for Global Green Chemicals Public Company Limited (GGC) and as such does not compromise our independence or impartiality.

Dated: 31 May 2022

*Opart Charuratana*  
LRQA Lead Verifier

On behalf of LRQA (Thailand) Limited  
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LRQA reference: BGK00000689A

**Table 1. Summary of Global Green Chemicals Public Company Limited, GHG Assertion 2021**

| Scope of CO2 emissions  | CY 2020<br>01 Jan - 31 Dec 2020 | CY 2021<br>01 Jan - 31 Dec 2021 |
|---|---------------------------------|---------------------------------|
| GRI 305-1: Direct GHG emissions (Scope 1).  | 27,714                          | 30,708                          |
| GRI 305-2: Energy indirect GHG emissions (Scope 2)  |                                 |                                 |
| + Location based  | 6,367                           | 8,362                           |
| + Market based without attributed bundle  | 65,607                          | 49,119                          |
| GRI 305-3: Other indirect GHG emissions (Scope 3 – Transmission loss only).   | 3,874                           | 3,125                           |
| Notes:  |                                 |                                 |
| <ul style="list-style-type: none"> <li>• Data is presented in tonnes of CO<sub>2</sub> equivalent.</li> <li>• CY2020 is an organization selected base year</li> </ul> |                                 |                                 |

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