



## Assurance brief

RISE has been contracted by Ardagh Group to perform a limited assurance of the data underpinning their 2022 sustainability report and CDP disclosure. In particular, the scope of the assurance provided is focused on the acquisition, processing and aggregation of the quantitative data necessary to calculate the principal environmental and health & safety key performance indicators (KPIs), namely:

- Production (tonnes, pieces)
- Raw materials (coils, alu and steel)
- Recycled metal (alu and steel)
- Energy consumption
- Scope 1 GHG emissions
- Scope 2 GHG emissions
- NOx emissions
- SOx emissions
- Particulate emissions
- VOCs emissions
- Process water
- Wastewater discharge
- Waste disposed
- Waste recycled
- Lost Time Accidents (LTAs)

In addition, RISE has also assured Ardagh Group's Scope 3 GHG estimations.

## Independence of the assurance provider

RISE (Research Institutes of Sweden) is a research, technology and consulting organisation consisting of six divisions: RISE Bioeconomy & Health, RISE Built Environment, RISE ICT, RISE Life Science, RISE Safety & Transport and RISE Certification. Between them, these divisions cover a diverse range of sectors and services.

RISE has worked with Ardagh Group on previous environment and sustainability projects but confirm their independence of the organisation for the purposes of providing the contracted assurance.

## Assurance conclusion

RISE has undertaken a limited assurance of the acquisition, processing and aggregation of the quantitative data necessary to calculate the principal environmental and health & safety KPIs reported in Ardagh Group's 2022 Sustainability Report and CDP submissions. RISE has also undertaken limited assurance of Ardagh Group's Scope 3 GHG emissions calculations. Procedures performed in a limited assurance engagement are aimed at determining the plausibility of information and are less extensive than those employed for a reasonable assurance engagement. Nonetheless,

*Based on the datasets and calculations reviewed and the evidence observed during site audits, nothing came to the practitioner's attention to cause belief that the KPI data or the Scope 3 GHG emissions are materially misstated.*

Subsequently, the assurance provider verifies the following GHG emissions to be an appropriate estimate of the environmental interventions of Ardagh Group:

- Scope 1 GHG emissions = 2,480,615 tonnes CO<sub>2</sub>e; Scope 2 GHG emissions (market-based) = 930,297 tonnes CO<sub>2</sub>e; Scope 3 GHG emissions = 4,145,107 tonnes CO<sub>2</sub>e; Total Scope 1,2 and 3 = 7,556,019 tonnes CO<sub>2</sub>e

Signed and dated:

Michael Sturges, 28<sup>th</sup> July 2022  
Assurance Consultant, RISE