



**CARBON
TRUST**

Certificate of Assurance

Samsung Electronics

have measured and demonstrated saving in the Energy Consumption and GHG Emissions of the use-phase of their

Energy-efficient washer models featuring AI Energy Mode

Carbon Trust Assurance Limited verifies in accordance with DUCD that Samsung Electronics Co., Ltd have calculated and demonstrated savings in Energy Consumption and GHG Emissions from AI Energy Mode in their energy-efficient washing machines sold and marketed globally, in accordance with:

- Carbon Trust - Assessment of Product Use-phase GHG Emissions from Electrical and Electronic Products - Part 1: Specification and Guidance

A detailed list of verified Use-Phase Product Carbon Footprints and Reductions results can be found in the associated Verification Letter supplementary results document, CTA-14018.

Awarded: 09 December 2025

for and on behalf of Carbon Trust Assurance Ltd,

Martin Hockaday
Head of Assurance



Dasom Shi,
Samsung Electronics Co., Ltd
129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do 16677, Korea

09/12/2025

Dear Dasom Shi,

Re: Carbon Trust Assurance Limited - your successful verification

I am delighted to confirm that the total energy consumption and use-phase emissions reductions across all washing machine models connected to the SmartThings Platform submitted by Samsung Electronics Co., Ltd have successfully been verified in line with the contracted standards.

I have great pleasure in enclosing your assurance letter and certificate of assurance. We would like to encourage you to display this certificate on your product web listing to help promote your achievement. Key information about your assessment, including details of the boundary, emissions reduction, and verification dates, can be found in the verification letter. Please keep in mind that the claim period starts immediately from the day your letter is issued and will remain valid for 12 months, subject to the terms and conditions of our contract.

Thank you again for all your efforts in tackling climate change and congratulations to everyone at Samsung Electronics Co., Ltd on achieving this verification; if you need any further assistance please don't hesitate to contact Bob Burgoyne.

Yours sincerely,

A handwritten signature in black ink, appearing to read "M Hockaday".

Martin Hockaday,
Head of Assurance



Carbon Trust Assurance Limited
Level 5, Arbor
255 Blackfriars Road
London SE1 9AX, UK

Dasom Shi,
Samsung Electronics Co., Ltd
129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do 16677, Korea

09/12/2025

Decarbonising the Use-phase of Connected Devices Assurance Letter

CTA-14018

Dear Dasom Shi,

Carbon Trust Assurance Limited (**'The Company'**) verifies that:

Samsung Electronics Co., Ltd (**'You'**) has submitted for verification purposes and achieved a reduction in the calculated Energy Consumption and GHG Emissions of the use-phase of their active energy-efficient washing machines marketed globally and when using AI Energy Mode, in accordance with:

- Carbon Trust - Assessment of Product Use-phase GHG Emissions from Electrical and Electronic Products - Part 1: Specification and Guidance;

Listed Countries and Use-Phase Energy Consumption and GHG Emissions

Decarbonising the Use-phase of Connected Devices Verification Results

The Company verifies the Energy Consumption and GHG Emissions results set out in the supplementary 'CTA-14018_Results' document (hereafter "supplementary results document"). This is the first time that these Energy Consumption and GHG Emissions Results have been verified by the Company.

The SKUs set out in the supplementary results document can be summarised as the following product(s): All active energy-efficient washing machines

Use-Phase Reduction Assessment Results

In accordance with the 'DUCD Specification', Samsung Electronics Co., Ltd has achieved the verified Energy Consumption and GHG Emissions reductions set out in the supplementary results document. The reduction results have been obtained by comparing the energy consumption for AI Mode on versus AI Mode off.

The SKUs that have achieved reductions are set out in the supplementary results document and can be summarised as the following product(s): All active energy-efficient washing machines.

Please note that any communications shall be based on the total energy consumption and use-phase emissions across all washing machine models connected to SmartThings Platform. Further communication opportunities are outlined under the Communications section of this letter.

The Company verifies the total Energy Consumption and GHG Emissions across all washing machine models connected to the SmartThings Platform listed in the supplementary results document based on the data provided.

Level of Assurance

This verification was carried out to a Limited Level of Assurance in accordance with Assessment of Product Use-phase GHG Emissions from Electrical and Electronic Products - Part 1: Specification and Guidance.

Our Responsibilities

Our responsibility is to plan and perform our work to obtain limited assurance about whether the Listed Energy Consumption and GHG Emissions have been prepared in accordance with the Reporting Criteria as defined at the beginning of this letter and to report to Samsung Electronics in the form of an independent limited assurance conclusion based on the work undertaken and the evidence obtained.

Our Assurance Activities

Our objective was to assess whether the Listed Energy Consumption and GHG Emissions are reported in accordance with the principles of completeness, comparability and accuracy. We planned and performed our work to obtain all the information and explanations that we believe were necessary to provide a basis for our assurance conclusions.



Considering the level of assurance and our assessment of the risk of material misstatement of the Listed Energy Consumption and GHG Emissions, our work included, but was not restricted to:

- assessing the appropriateness of the Reporting Criteria for the Listed Energy Consumption and GHG Emissions;
- conducting interviews with Samsung Electronics management to obtain an understanding of the key processes, systems, controls and related documentation in place over the preparation of the Listed Energy Consumption and GHG Emissions;
- carrying out one site visit to operating company in Seoul, Korea;
- performing analytical reviews and detailed sampling of the Listed Energy Consumption and GHG Emissions; and
- reading the DUCD Data_251121_4 and narrative accompanying the Listed Carbon Footprint(s) in the DUCD Data_251121_4 with regard to the Reporting Criteria, and for consistency with our findings.

Our Conclusion

Based on the work we have undertaken and the evidence provided by Samsung Electronics, nothing has come to our attention that leads us to believe that the Listed Energy Consumption and GHG Emissions has not been properly prepared, in all material respects, in accordance with the Reporting Criteria as defined at the beginning of the letter. The verification opinion is unmodified.

Materiality

It has been verified that all material non-conformities identified during the sampling performed on the footprint models submitted have been closed. If at any time and for whatever reason You or the Company identify any further non-conformities, the terms described in the Description of Service and General Terms and Conditions will apply. It is also Your duty to promptly inform the Company in writing.

Provision for material discrepancy

The Company has performed the verification in accordance with the applicable material discrepancy threshold: where actual errors, omissions or misstatements affect the final footprint result by the equivalent of 1% or more individually or 5% or more in aggregate they are predetermined to be a material discrepancy and therefore a non-conformity.



Footprint period and Claim Period

The footprint period represents the time period for which the use-phase product carbon footprint is representative, this is from 01 July 2024 to 30 June 2025. The Claim Period for this Verification is a period of 12 months from 10 December 2025 (the "effective date") until 09 December 2026. Subject to the provisions in this Assurance Letter, during the Claim Period you may communicate the Listed Energy Consumption and GHG Emissions as being valid in respect of representing the current Energy Consumption and GHG Emissions of the Listed Products.

We will be in touch with you prior to the expiry of this verification to discuss your communications as well as re-verification. However, if you have any questions or would like to look into re-verification or reduction assessment at any time, please feel free to get in touch with us.

Inherent Limitations

The accuracy and completeness of the Listed Energy Consumption and GHG Emissions is subject to inherent limitations given their nature and methods for determining, calculating and estimating such data. As such, this Assurance Statement should be read in connection with DUCD Data_251121_4. For those subject matters with a limited assurance, the evidence-gathering procedures are more limited than with a reasonable assurance, and therefore less assurance is obtained than in an overall reasonable assurance statement.

Conflict(s) of Interest

The Carbon Trust prioritises impartiality in the delivery of its assurance services. This principle is integral to our operational procedures, ensuring objectivity, transparency, and independence. We rigorously manage any actual or potential conflicts of interest.

The footprint(s) of this (these) product(s) were calculated by Samsung Electronics which have no affiliation with the Carbon Trust.

We additionally have an impartiality process in place which is documented in our Assurance Manual and aligned to our Carbon Trust Assurance Impartiality Commitment Statement. All identified potential threats to impartiality are logged in our Impartiality log.

This framework ensures the credibility and impartiality of our assurance services.

Carbon Trust Assurance's Competence and Independence

CTA 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 is rigorous and transparent.

Communications

Any claims regarding the verification results or any other claims shall be made in accordance with the 'Assessment of Product Use-phase GHG Emissions from Electrical and Electronic Products - Part 1: Specification and Guidance'.

In accordance with the Specification and Brand Guidelines You are permitted to communicate the verified results and claim, as set out below and in any associated Annex:

The total energy consumption and associated GHG emissions of select active energy efficient washing machines using the SmartThings Platform globally during the period July 2024 to June 2025 have been verified at 12,276,764 kWh, resulting in 5,266 tCO₂e, by Carbon Trust Assurance Ltd according to the DUCD Part 1: Specification and Guidance. The verified total energy savings and GHG emission reductions attributable to using AI Energy Mode compared to a baseline of the same devices without using AI Energy Mode during July 2024 to June 2025 across all active devices globally amount to 5,017,351 kWh, resulting in 2,084 tCO₂e. The list of applicable washing machine models and the full lifecycle product carbon footprint and reduction is available at www...

For and on behalf of
Carbon Trust Assurance Limited

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Martin Hockaday,
Head of Assurance

Appendix.

[List of applicable washing machine models](#)

[Lifecycle product carbon footprint – Washing Machine](#)