

Product Environmental Report

OLED S95H

2026. 8. 31



At Samsung, we work to integrate energy-efficient technologies and recycled materials in our products. By considering sustainability across the product life cycle, such as material sourcing, manufacturing, distribution, use, and recycling, we aim to empower our customers to join us in our journey to build a better tomorrow.



Product Carbon
Footprint

www.tuv.com
ID 0217009957

[1]

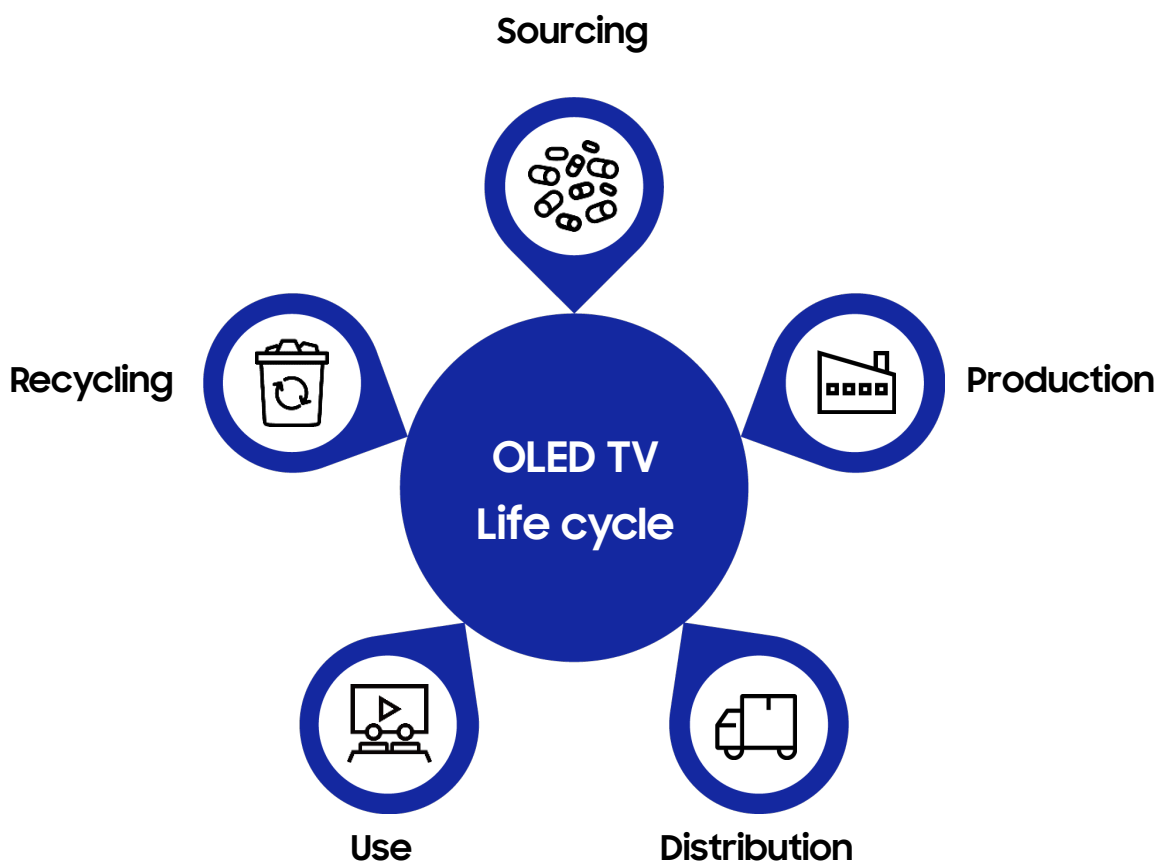
* Certified model : **55S95H**** / **55SH95**** (138 cm),
65S95H** / **65SH95**** (163 cm),
77S95H** / **77SH95**** (195 cm),
83S95H** / **83SH95**** (209 cm)

* Note : 'S95H' and 'SH95' are products of identical specification;
'SH95' is sold only in Korea.

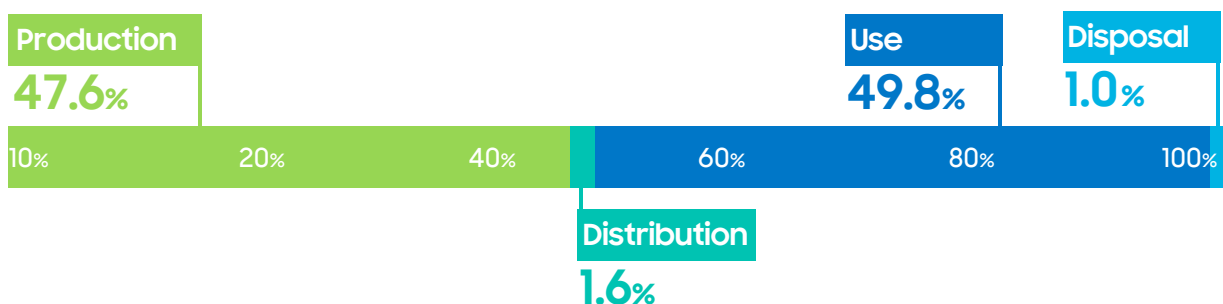
Product Carbon Footprint

To understand the environmental impacts of our products, at Samsung Electronics, we assess a product's life cycle across five phases: sourcing, production, distribution, product use and recycling.

At the production stage, our environmental practices include integrating recycled materials with a lower carbon footprint. At the distribution stage, we seek ways to optimize packaging volume and weight. Through improving product energy efficiency, we are trying to improve the environmental impact at the use stage.



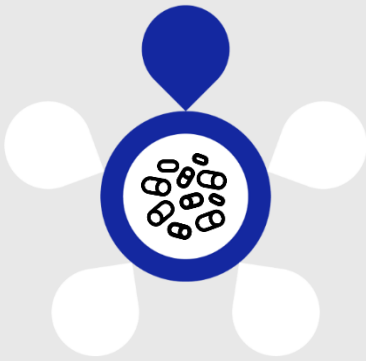
OLED 77S95H Life Cycle carbon emissions : 1,914 kg CO₂eq. ^[2]



* based on QN77S95HAFXZA configuration ^[3]

* The figure above calculates the environmental impact of one product over the entire life cycle as CO₂ emission ^[3]

Sourcing



Across the product lifecycle, from raw material sourcing to disposal and recycling, we are continuing our efforts to create a circular economy.

To build toward a circular system, we are using recycled materials and collecting e-waste to extract materials for reuse. By 2030, we aim for 50% of the plastic used in our DX products to incorporate recycled resin. By 2050, we anticipate this figure to increase to 100%.

Samsung Electronics uses the recycled materials for parts in the OLED S95H products. In addition, we are trying to manage its supply chain so that minerals used in its products are mined in accordance with OECD due diligence guidelines.

Plastic

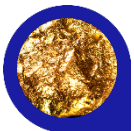


S95H's rear cover/rear deco contain a minimum of 35% recycled content, and cover stand contains a minimum of 10% recycled content. ^[4]

The front chassis/rear frame chassis inside the product applies 10% recycled plastic made from waste cooking oil/waste vinyl based raw materials. ^[5]

Furthermore, the SolarCell remote contains an average of at least 22% of recycled plastic in the total plastic used. ^[6]

Responsible minerals



For internationally disputed minerals such as tantalum, tin, tungsten, and gold, we elect to only use minerals supplied by smelters that have obtained global third-party certifications. Minerals that raise human rights violations or environmental destruction issues during mining are included in the management^[7] list and are avoided in our management of the mineral supply chain.



Chemical Mgmt.

To prevent hazardous substances from entering our products, we inspect manufactured parts and raw materials rigorously through our chemical management system.

Our Standards for the Control of Substances Used in Products^[8] are based on global regulations and standards, and we voluntarily established reduction plans for the use of potentially hazardous substances, such as polyvinyl chloride(PVC), brominated flame retardants(BFRs), beryllium, and antimony, as well as legally regulated substances.

Production



We are expanding the use of renewable energy at our business sites around the world.

Energy infrastructure and regulations, which vary widely by jurisdiction, require region-specific transition plans.



Renewable Energy

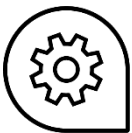
We plan to run all operations of the DX(Device eXperience) Division on renewable energy by 2027. ^[9]



On-site Waste

We achieved highest Platinum grade for Zero Waste to Landfill validated by global safety science company, UL(Underwriters Laboratories), across all our global manufacturing sites in 2025. ^[10]

All of our business sites where Samsung TV, audio, and display products are produced have attained ISO14001(environmental management system) and ISO50001(energy management system). ^[11]



Reducing material & Scrap recycling

Samsung Electronics is increasing the efficiency of using raw materials to reduce environmental impact during the production stage. We are using External Gas Molding (EGM) technology, which uses air instead of plastic to shape parts, thus reducing the amount of plastic used in the injection process.



Distribution



To reduce the environmental impact of our product packaging, we are progressively replacing plastic packaging and protective films with recycled paper and materials.

We are also reducing the volume and weight of packaging to mitigate Greenhouse gas emissions in the transportation and shipping process.



Packaging

We have applied recycled materials for the package of S95H.(EPS cushion, Accessory bag, PP band, Stand bag). Not only for product components but for the packaging, we are expanding the range of application and increasing the percentage of recycled materials.

For models of the same performance released since 2024, the recycled material content of the EPS cushion and the stand bag were 10% and 50%, respectively. ^[12]

Plastic
tape/band
removal

100%

The plastic tape that seals the packaging box has been removed or replaced with paper, and the plastic band that binds the accessory cable has been changed to paper. ^[13]

Metal staple
removal

100%

The recycling of the paper box was enhanced by removing the metal staples used in the side joints of the box. ^[14]



Use



To reduce the environmental footprint of our products during their lifecycle, Samsung Electronics integrates environmental considerations into the development process. These specialists focus on optimizing energy efficiency, designing for reparability, and conducting rigorous durability testing.



Energy
Efficiency

To reduce greenhouse gas emissions during the use of our key products, we set our plan to reduce power consumption by an avg. of 30% by 2030, compared to products with the same specifications in 2019 ^[15]

* Power consumption of the 77S95H ^[16]

Using a light sensor, TV detects its surroundings and automatically adjusts brightness accordingly. It also enters power saving mode when there is no user movement, helping to save energy. ^[17]



SolarCell
Remote

Samsung Electronics' SolarCell Remote operates using energy from solar power or indoor lighting, eliminating the need for disposable batteries. It is designed not only to enhance convenience by eliminating the need for users to replace batteries or perform separate charging operations but also to reduce waste.



Recycling



To promote the circular economy and a low-carbon society, we are expanding responsible recycling around the world.

Samsung's recycling programs provide collection services tailored to each region for customers disposing e-waste, and we take back electrical and electronic waste regardless of product brand.



Collection

Samsung Electronics operates a range of recycling programs in over 100 countries, including Korea, to collect e-waste regardless of brand. By 2030, we plan to expand e-waste collection system to all countries where our products are sold.

Collected electronic goods are sorted, pre-processed, and shredded to be recycled as materials. Some of the materials like plastic are used for new product manufacturing. We also internally operate 'Requirements for Recycling Service Partners' that specify requirements such as compliance obligations related to EHS-related laws and regulations, supplier management, and prohibition of illegal waste exportation.



Repair & Reuse

We actively reuse components in our TV and display repair services. In 2025, we recovered about 420,000 parts across 28 countries, successfully reusing 90,000 of them after thorough quality checks.



Endnotes

Disclaimer

1. TUV Rheinland of Germany has certified that Samsung Electronics has correctly measured carbon footprints by applying the "ISO 14067:2018" standard.

- Certified model : **55S95H***** / ** 55SH95***** (138 cm),
 65S95H*** / **65SH95***** (163 cm),
 77S95H*** / **77SH95***** (195 cm),
 83S95H*** / **83SH95***** (209 cm)

※ In model name notation, ' * ' consists of numbers 0 to 9 or alphabets (A to Z).

2. Guidelines and conditions applied to the calculation of carbon emissions

- Database : Ecoinvent 3.9.1, Korea LCI DB
- ISO 14067:2018 Carbon footprint of products
- ※ TUV Rheinland has certified that Samsung Electronics' carbon emissions calculation method conforms to ISO 14067:2018 guidelines (Review of Product Carbon Footprint Method)

3. System boundary of Life Cycle Assessment

- Production : Pre-manufacturing(Parts and materials constituting the products and its transportation) and Product assembly by Samsung Electronics
- Distribution : from Mexico to U.S.A
- Use : 7 years use
- Disposal : Waste disposal of parts and materials

4. Environmental Claim Validation (ECV) verification was obtained from UL for recycled materials.

- Verification method: ECV Procedure for Recycled content, UL ECVP 2809-2, Second Edition
- PCM PC contained parts : Rear Cover / Rear Deco
 (It contains a minimum of 35% of recycled PCM PC in total plastic, based on weight)
- PCM PP contained parts : Cover stand
 (138/163/195cm, It contains a minimum of 10% of recycled PCM PP in total plastic, based on weight)
- PCM PA6 contained parts : Cover stand
 (209cm, It contains a minimum of 10% of recycled PCM PA6 in total plastic, based on weight)
- ※ PCM : Post-Consumer Material (recycled plastic from waste products)
- ※ PC : PolyCarbonate
- ※ PP : Polypropylene
- ※ PA6 : Nylon6
- ※ UL : Underwriters Laboratories (Global Environmental Safety Certification Authority)
- ※ ECV : Environmental Claim Validation

5. ISCC PLUS was obtained from Control Union.

- Recycled parts made from waste cooking oil/waste vinyl : Front chassis / Rear frame chassis
 (It contains 10% in total plastic parts, based on Mass balance method certified by Control Union)
- ※ Control Union : One of the Global Certification Authorities
- ※ ISCC PLUS : International Sustainability & Carbon Certification Plus

6. Environmental Claim Validation (ECV) verification was obtained from UL for recycled materials.

- Verification method : ECV Procedure for Recycled content,
 UL ECVP 2809-2, Second Edition for PCR PC
 / UL ECVP 2809, Fifth Edition for PCR PET
- Cover-Top, Cover-Bottom : Contains 30% PCR PC (based on weight)
- Bottom-Navigation, Bottom-Volume, Cover-Battery Bottom : Contains 28% PCR PET (based on weight)
- ※ PCR : Post-Consumer Recycled material
- ※ PET : Poly Ethylene Terephthalate

7. Samsung Electronics operates a mineral management process based on OECD due diligence guidelines for responsible minerals.

<https://www.samsung.com/sec/sustainability/people/supply-chain/#anchor4>

Endnotes

8. Standards for Control of Substances Used in Products

<https://www.samsung.com/sec/sustainability/digital-library/policy-document/>

9. Shifting to renewable energy

Samsung Electronics joined RE100, a global initiative, to reduce indirect carbon emissions (Scope 2) caused by power use and decided to convert all power used to renewable energy by 2050. First, Samsung Electronics is working to achieve a 100% transition to renewable energy at all overseas operations and the DX division by 2027. In particular, operations in the U.S., China, Europe, and several other regions have completed the transition to renewable energy, and the company plans to continue expanding power purchase agreements (PPAs) signed directly with renewable energy generation operators, focusing on regions with active renewable energy markets.

※ Samsung Electronics' Device experience (DX) division is in the business of producing and selling TVs, monitors, refrigerators, washing machines, air conditioners, smartphones, tablets, PCs, and wearable products.
<https://www.samsung.com/sec/sustainability/planet/climate-action/#anchor2>

10. UL issues Zero Waste to Landfill designations based on a facility's waste diversion rate, Platinum(100%), Gold(95-99%), and Silver(90-94%). Facilities that achieve diversion rate less than 90% and above 80% can still qualify for a certified landfill diversion claim. (As a rate with fractional value is rounded off by UL, 99.5% will be rounded off to 100%)

11. Samsung Electronics' manufacturing sites operate environmental management and energy management systems based on global standards including ISO14001 and ISO50001 certifications. We also strive to ensure that our suppliers have robust occupational health and safety management systems in place by encouraging them to attain certification for international standards and reflect related outcomes in the comprehensive supplier evaluations.

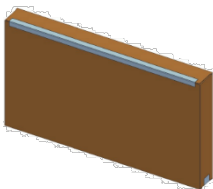
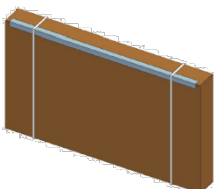
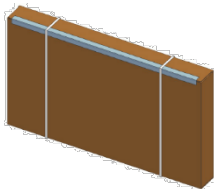
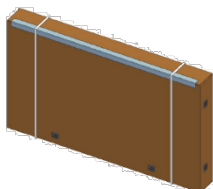
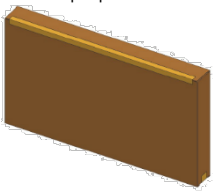
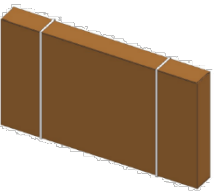
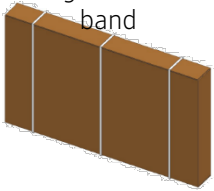
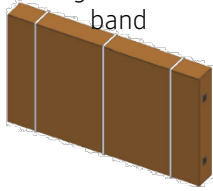
12. The recycled materials applied to the product packaging subsidiary materials are as follows.

- Subsidiary Materials Containing 50% Recycled Plastics: Accessories Bag, PP Band, Stand bag
- Subsidiary Materials Containing 10% Recycled Plastics: EPS cushion

※ PP : Polypropylene

※ EPS : Expandable Polystyrene

13. The plastic tape for box sealing has been deleted or changed to paper, and it is applied separately as shown in the table below according to the product size.

	~ 146 cm	152 ~ 163 cm	176 ~ 189 cm	206 cm ~
Before				
After (2023~)	Replacing tape with paper 	Plastic tape removal 	Plastic tape removal Adding a central PP band 	Plastic tape removal Adding a central PP band 

Endnotes

14. Recyclability of paper boxes was increased by removing metal staples and replacing them with glue. The reduction of box assembly process time also reduced energy consumption in the manufacturing process.

15. We plan to reduce power consumption by an avg. of 30% in 2030 compared to the same performance model in 2019 by applying low power technology to representative models of seven major electronic products such as TVs, monitors, smartphones, refrigerators, washing machines, air conditioners, and PCs. We are conducting twice/yearly implementation checks on the annual improvement goals of the representative models for each product line, and we are trying to spread the energy efficiency technology applied to the representative models horizontally to other models.

16. Average power consumption of the OLED 77S95H is 192.0W.

Measurement criteria model: QN77S95HAFXZA

Power consumption measurement criteria: 10 CFR Parts 430 'ANSI/CTA 2037 D'

Power consumption is calculated based on the power measured in our laboratory based on the initial shipment status product.

Different countries have different regulatory conditions or measurement standards, and measurement methods may be updated to change measurements when each country's regulatory conditions change.

The model name/model code of the product may vary by region or country where Samsung Electronics sells the product

17. It requires separate settings.

Corporate Sustainability Management

Samsung is constantly striving to deliver innovative products and services across the value chain. This is rooted in our core values in economy, society and environment. Therefore, we monitor the financial and non-financial impacts that we exert on society in order to maximize our positive impacts while minimizing any negative ones.

<https://www.samsung.com/sec/sustainability/main/>

Environmental Strategy

Samsung Electronics announced the New Environmental Strategy in September 2022 with the aim of addressing global environmental issues through our innovative technologies. This paradigm shift is essential for our sustainable growth and will create meaningful momentum to reinforce our competitiveness.

The New Environmental Strategy was developed based on our commitment to achieve net zero by 2050, joining the world's effort to combat climate change, maximize resource circularity to advance towards a circular economy, and continuously address environmental challenges with technological innovation. This effort is expected to bring positive change to the broader ecosystem of the ICT industry as we engage in the manufacturing and supply of an extensive range of products and services.

<https://www.samsung.com/sec/sustainability/planet/environmental-strategy/>

Circular Economy

We aim to create a more sustainable resource cycle by using recycled materials and researching methods to extract and re-use resources from e-waste.

<https://www.samsung.com/sec/sustainability/planet/circular-economy/>

Appendix Review of Product Carbon Footprint Method

Seite Page 1 / 3

Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*
Q 50717940 0001

Berichtsnummer *Report No.:*
KR268Y69 001

Genehmigungsinhaber *License Holder:*
Samsung Electronics Co., Ltd.
129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do 16677
Republic of Korea

Fertigungsstätte *Manufacturing Site:*
6 Fertigungsstätten auf Folgeseiten
Listing of 6 factories on following pages

Prüfzeichen *Test Mark:*



Geprüft nach *Tested according to:*
2 PFG Q2895/06.24
ISO 14067:2018

Geräteidentifikation

Product Identification

Produkt: Display Unit
Product: (OLED TV)

Modell: Modelle sind auf nächste(r) Seite(n) gelistet
Type: *Type designation(s) are listed on the next page(s)*

Technische Daten: Trademark : SAMSUNG
Technical Data: System boundary : Cradle to Grave
Data period : 1st Oct 2024 ~ 30th Sep 2025 for manufacturing;
2025 for product use stage
Method : IPCC2021GWP100
GHG emissions : refer to report KR268Y69 001

Gültig bis: 2027-03-05
Date of expiry:

Gültig ab: 2026-03-06
Valid from:

Zertifizierungsstelle:
Certification body:

Ausstellungsdatum: 2026-03-06
Date of issue:


JongMan Kim



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
<http://www.tuv.com/safety> E-mail: markcheck@tuv.com
Fax: +49 221 806-3935

www.tuv.com

 **TÜVRheinland®**
Precisely Right.

© TÜV, TÜV und TÜV are registered trademarks. Utilization and application requires prior approval.

Appendix Review of Product Carbon Footprint Method

Seite Page 2 / 3

Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*
Q 50717940 0001

Berichtsnummer *Report No.:*
KR268Y69 001

Produkt *Product:* Display Unit
(OLED TV)

Modell *Type:* **Bezeichnung** *Designation:*
S95H(SH95) 55, 65, 77, 83 inch

Remark: This certificate and report results should not be used for carbon reduction declaration purpose.



© TÜV, TÜV and TÜV are registered trademarks. Utilization and application requires prior approval.

Appendix Review of Product Carbon Footprint Method

Seite Page 3 / 3

Zertifikat *Certificate*

Zertifikatsnummer *Certificate No.:*
Q 50717940 0001

Berichtsnummer *Report No.:*
KR268Y69 001

Produkt *Product:*
Display Unit (OLED TV)

Fertigungsstätten *Factories:*

- 1 SAMSUNG ELECTRONICS EGYPT S.A.E (SEEG)
Piece No.98, Engineering Sector,
Kom Abu Radi Industrial Zone,
62815 Al Wasta, Beni Suef
Egypt
- 2 Samsung Electronics Hungarian
Priv. Co. Ltd.
Samsung ter 1
5126 Jaszfenyszaru
Hungary
- 3 Samsung Electronics Da Amazonia Ltda.
Avenida dos Oitis,
1460, Distrito Industrial, Manaus,
Amazonas, - AM
69075-842
Brazil
- 4 SAMSUNG MEXICANA, S.A. DE C.V.
BLVD. LOS OLIVOS #11110,
PARQUE INDUSTRIAL
EL FLORIDO, 2DA. SECCION,
22244 TIJUANA, Baja California,
Mexico
- 5 SAMSUNG ELECTRONICS HCMC CE
COMPLEX CO., LTD
Lot I-11, D2 Road,
Saigon Hi-tech Park,
Tang Nhon Phu B Ward,
Thu Duc City, Ho Chi Minh City 70000
Vietnam
- 6 Samsung Electronics Slovakia
s.r.o.
Hviezdoslavova 807
924 27 Galanta
Slovakia



© TÜV, TÜV and TÜV are registered trademarks. Utilization and application requires prior approval.