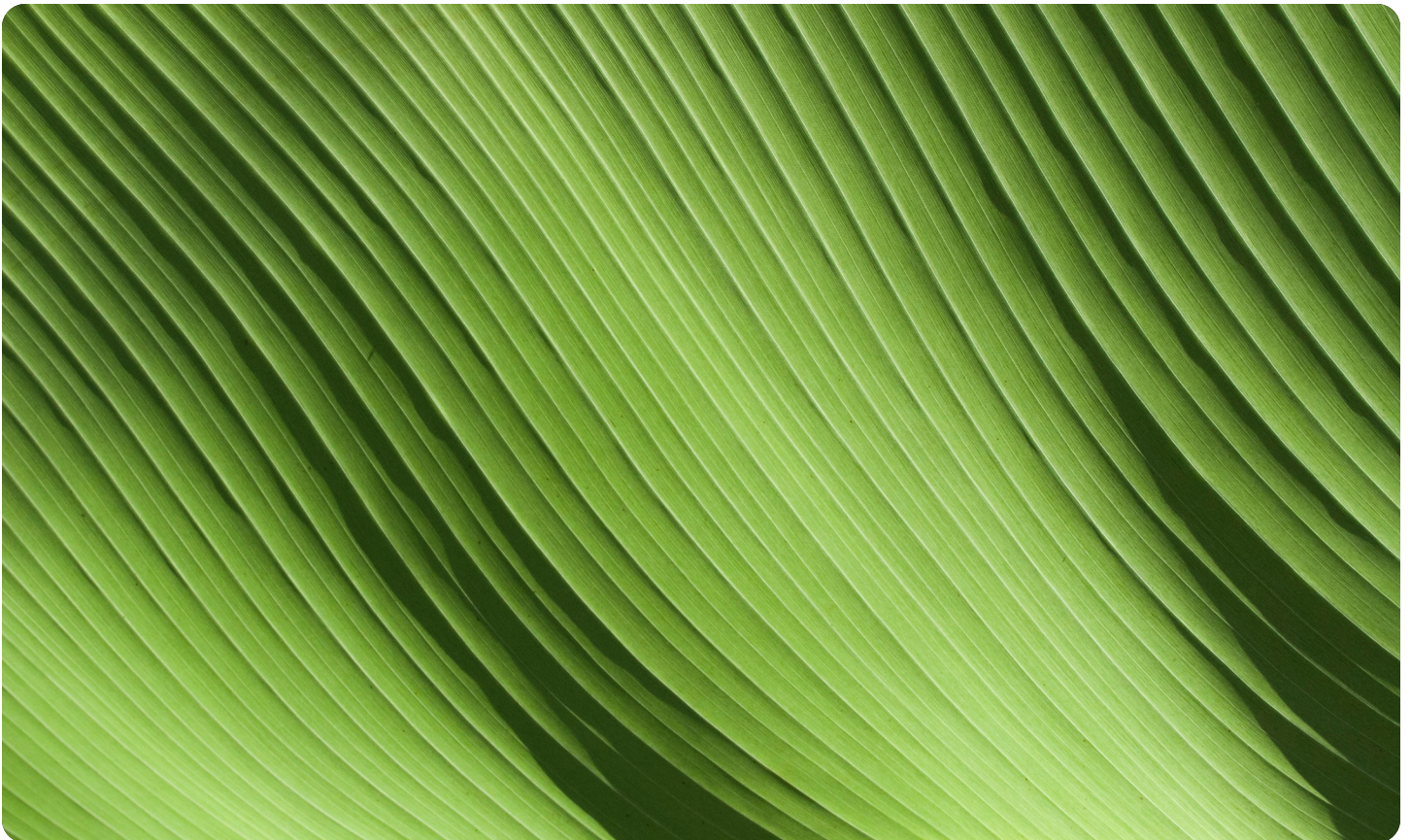


2025

SAMSUNG

SAMSUNG IN AMERICA

# Environmental Toolkit



ENVIRONMENTAL STRATEGY

4

PRODUCT ENERGY EFFICIENCY

7

PRODUCT STEWARDSHIP

18

SUSTAINABLE MATERIALS

23

SUSTAINABLE OPERATIONS

26

SHARING OUR VALUES

34

# Table of Contents





Meaningful impact starts with everyday changes. Every day we find new ways to drive efficiency and improve our product lines and operations around the world. Through bold thinking and revolutionary technology, we're using our global presence and scale to take a circular approach to sustainable innovation – with a focus on renewable energy, sustainable materials, responsible recycling, and energy efficiency.

All of the "little things" add up to large carbon savings: Customers' actions combined with our innovations help preserve resources for future generations and protect the planet we call home.

We are intentional about creating a positive environmental impact, empowering our customers to make meaningful differences through everyday changes. After all, our products' environmental impact doesn't stop once a customer takes a device or appliance home. That's why we tackle sustainability with two guiding questions:

- ① How do we make products less carbon-intensive?
- ② How can the use of these products make our customers' lives more sustainable?

When our products enter a customer's home, we offer ways to help them live more sustainably. Our SmartThings app educates them on their home energy use and opportunities for upcycling. Our 630+ ENERGY STAR certified electronics and appliance base models, by nature of their enhanced energy efficiency, help customers minimize their carbon emissions and lower their energy bills in the process.

We are committed to driving positive environmental change and are excited about the role of innovation in building a more sustainable future, a future we'll all be proud to pass on to our children.

Sincerely,  
**Mark Newton**  
Head of Corporate Sustainability  
Samsung Electronics America

Based on the belief that our environment is our future, we have established an environmental management strategy that aims to contribute toward the preservation of our environment.

# Environ- mental Strategy



# The 3 Pillars of our Environmental Strategy

## Net zero

carbon emissions  
by 2050

## Resource circularity

across the entire  
product lifecycle

## Innovative technologies

for a sustainable future





# Our Global Sustainability Goals

## Goals

## Progress

### 2025

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Obtain Platinum Zero Waste-to-Landfill validations in 22 global manufacturing sites</li> <li>• Incorporate and develop recycled materials in all products</li> <li>• Eliminate single-use plastics in mobile packaging</li> <li>• Achieve zero standby power consumption in chargers</li> <li>• Achieve renewable energy transition of 94%</li> <li>• Achieve Zero Waste to Landfill in global operations</li> <li>• Achieve water replenishment rate of 50%</li> </ul> | <ul style="list-style-type: none"> <li>• Obtained Platinum Zero Waste-to-Landfill validations in 18 manufacturing sites (2024)</li> <li>• Applied recycled plastic to 31% of DX plastic parts (2024)</li> <li>• Eliminated single-use plastics from all MX packaging (2025)</li> <li>• Achieved zero standby power consumption in chargers (2025)</li> <li>• Achieved renewable energy transition rate of 93.4% globally; 100% in the U.S.</li> <li>• Achieved 98% company-wide recycling rate (DX 94%, DS 99%)</li> <li>• Achieved water replenishment rate of 38.6% (2024)</li> </ul> |
|--|---|

### 2027

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• 100% transition to clean vehicles</li> <li>• 100% transition to renewable energy for all DX operations</li> </ul> | <ul style="list-style-type: none"> <li>• We transitioned a total of 106 vehicles to zero-emission vehicles (electric and hydrogen-powered) (2024)</li> <li>• 93.4% transition completed for DX division in 2024</li> </ul> |
|--|--|

### 2030

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Achieve zero increase in water withdrawal compared to 2021 baseline (DS)</li> <li>• Establish a closed-loop battery materials recovery system</li> <li>• Achieve net-zero carbon emissions for all DX operations</li> <li>• Apply recycled resin to 50% of all plastic parts</li> <li>• 100% restoration of consumed water</li> <li>• Incorporate at least one recycled material in every module of every mobile product</li> </ul> | <ul style="list-style-type: none"> <li>• Achieved Korean manufacturing sites' water reuse amount of 1.01 million tonnes; Achieved Alliance for Water Stewardship (AWS) Platinum certification for all Korean manufacturing sites)</li> <li>• We established a Circular Battery Supply Chain for the Galaxy S25 by utilizing recycled cobalt extracted from previously used Galaxy smartphones and batteries discarded during the manufacturing process</li> <li>• Achieved Scope 1 and 2 emissions of: 340k tonnes CO<sub>2</sub>e1</li> <li>• Applied recycled plastic to 31% of DX product plastic parts (Cumulative 769,000 tonnes)</li> <li>• Achieved water replenishment rate of: 38.6% (Korean sites' replenishment rate: 100%)</li> <li>• 768,811 tonnes of plastic containing recycled materials used cumulatively since 2009</li> </ul> |
|--|---|

### 2040

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Treat air and water pollutants to natural levels</li> </ul> | <ul style="list-style-type: none"> <li>• Achieved water replenishment rate of 38.6%, 100% at Korean replenishment sites (2024); Received Alliance for Water Stewardship (AWS) Platinum certification at our Vietnam manufacturing site</li> </ul> |
|--|---|

### 2050+

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Collect 25M tons of e-waste</li> <li>• Achieve 100% renewable energy for all DS + DX operations</li> <li>• Achieve net-zero emissions for Scope 1 and Scope 2 for all DX and DS operations</li> </ul> | <ul style="list-style-type: none"> <li>• We have collected 6.9M tons of e-waste (2025)</li> <li>• 31.4% company-wide transition to renewable energy in 2024</li> <li>• DS achieved Scope 1 and 2 emissions of: 14.55 million tonnes CO<sub>2</sub>e in 2024; DX achieved achieved Scope 1 and 2 emissions of: 340k tonnes CO<sub>2</sub>e in 2024</li> </ul> |
|--|--|

DX: Device eXperience Division   DS: Device Solutions Division   DX + DS: Device eXperience + Device Solutions Divisions

Source: 2025 Global Sustainability Report

With continuous efficiency improvements, we are reducing the energy consumption of our devices and helping our customers live more sustainably.

# Product Energy Efficiency

## Product Efficiency Impact

Samsung has a long history of developing energy-efficient products. In the 1970s, our Econo TV reduced energy consumption by over 20%. As of 2024, we have improved the energy efficiency of seven major product categories to consume 31.5% less energy in comparison to 2019 performance - surpassing our goal of 30% by 2030.

### Our Pledge for Greater Energy Efficiency (2019 baseline)

# 31.5%

Our major consumer products are 31.5% more energy-efficient

# 20%

By 2025, our mobile memory products will be 20% more energy-efficient

# 60%

By 2025, our data center memory products will be 60% more energy-efficient

Source: <https://news.samsung.com/global/samsung-electronics-announces-new-environmental-strategy>

Our goals are to reduce carbon emissions (Scope 1 and 2) by 2030 for DX and 2050 for DS and 100% renewable energy transition for DX business sites by 2030 and DS business sites by 2050.

### DX 2024 Progress

- Achieved Scope 1 and 2 emissions of 340k tonnes of CO<sub>2</sub>
- Achieved renewable energy transition rate of 93.4%

### DS 2024 Progress

- Achieved Scope 1 and 2 emissions of: 14.55 million tonnes CO<sub>2</sub>
- Achieved renewable energy transition rate of 24.8%
- Develop high efficiency Regenerative Catalytic System (RCS)

\*Products included in calculation: smartphones, TVs, refrigerators, washing machines, air conditioners, PCs, and monitors.

\*\*"Major" is defined by DX as smartphones, TVs, refrigerators, washing machines, air conditioners, PCs, and monitors.



## ENERGY STAR

According to the EPA, choosing ENERGY STAR can save a typical household about **\$450** on their energy bills each year – all while enjoying the same quality and performance they expect. Since 1992, ENERGY STAR and its partners have helped prevent **four billion** metric tons of greenhouse gas emissions from entering our atmosphere.

**As of 2025, Samsung has over 630+ ENERGY STAR certified base models across our entire product portfolio.**

70% of active lineup are ENERGY STAR certified within ENERGY STAR qualifying categories and subcategories.

**29%**

of built-in  
cooktops

**91%**

of refrigerators

**55%**

of ranges  
(electric only\*)

**95%**

of dishwashers

**49%**

of washer/  
dryer combos

**100%**

of all washers from our  
South Carolina facility

We are the first major brand to rejoin the ENERGY STAR TV Category with 50 models earning the certification as of 2025.

We are the only company in the past 10 years to receive the ENERGY STAR Corporate Commitment Award.

Source: [www.energystar.gov/productfinder/product/certified-televisions/results](https://www.energystar.gov/productfinder/product/certified-televisions/results) for other brands/offerings

\*Induction is included in electric

## Bespoke AI Slide-In Induction Range ENERGY STAR certified

In 2024, 11 new induction cooking products – one induction cooktop and 10 induction ranges – **were certified to the brand new ENERGY STAR specification for residential electric cooking products.** This includes Samsung's innovative, energy-efficient induction range, the Bespoke AI Slide-In Induction Range.

In 2021, Samsung's Smart Induction Cooktop was the **first cooktop in the industry to be recognized with the EPA Emerging Technology Award** for its ability to reduce energy use and lower emissions – all while maintaining outstanding performance. Samsung has more models that have won this award than any other company.

## Bespoke AI Hybrid 4-Door Flex Refrigerator ENERGY STAR certified

**AI Energy Mode Integration:** Through SmartThings Energy App, users can activate AI Energy Mode to enact consumption pattern data to optimize compressor and defrost cycles.

The high-efficiency AI Inverter Compressor and a Peltier module reduces internal temperature fluctuation in the fridge when activated. The fridge leverages the residual heat from the Peltier mode during the defrosting process, reducing the chance of excessive temperature fluctuations throughout the cooling and heating cycle.

**High Efficiency LED Lighting:** Reduces energy usage while providing bright internal illumination.

**Low Global Warming Potential (GP) Refrigerant:** Uses R600a refrigerant, which is a very efficient refrigerant with low discharge temperatures.

## Bespoke AI Laundry Vented Combo ENERGY STAR certified

Industry's first vented all-in-one washer-dryer in its class.

**SmartThings Energy:** Allows consumers to monitor power consumption and estimate their monthly electricity bill for improved control over their energy usage.

**AI Energy Mode:** Deploys Vented Combo to automatically optimize energy consumption and reduce usage by up to 30%.

**Flex Auto Dispense System:** Automatically dispenses the ideal amount of detergent and fabric softener for every load, for up to 47 loads  
**Less Microfiber cycle:** This cycle allows users to gently clean synthetic textiles while reducing 39% of microfibers released into the ocean.

## IRA Home Rebates for ENERGY STAR certified Products

In 2025, we continue to be a major supporter of the [Inflation Reduction Act \(IRA\) home rebate programs and advocate for greater access to ENERGY STAR products](#) – especially for low and moderate income households.

Once states apply for and receive funding to launch these programs, customers can save up to \$840 on new appliances depending on two factors: the rebate amount set by their state and the customer's income level. The latter must be less than 150% of area median income – as defined by the U.S. Department of Housing and Urban Development – to qualify.

Samsung is committed to advancing these voluntary solutions, benefiting American consumers and reinforcing their choice.



## Recognition

From our products to operations, Samsung has won many accolades that recognize our efforts to scale up energy efficiency and reduce greenhouse gas emissions. In 2024, we celebrated our 11th year winning the **ENERGY STAR Partner of the Year** award for Sustained Excellence in the Product Brand Owner category and our 2nd year winning the **ENERGY STAR Partner of the Year** award for Sustained Excellence for Energy Management. We continue to protect the environment through our efforts to increase the energy efficiency of our products and reduce emissions in our operations.

# 27

ENERGY STAR Awards  
since 2009

# 20X

ENERGY STAR  
Partner of the Year

# 4X

Winner of the ENERGY STAR  
Emerging Technology Award

## Samsung Electronics Canada

Samsung is one of the world's leading electronics companies, focused on innovation in consumer products, including digital appliances, televisions, monitors, smartphones, tablets and wearable devices. Since 2003, Samsung is dedicated to making meaningful contributions to fight climate change by developing more energy efficient products through the ENERGY STAR program.

### Key accomplishments include:

- In 2025, we won the ENERGY STAR Canada Manufacturer of the Year Award for Appliances, which is Samsung Electronics Canada's fifteenth ENERGY STAR Canada award.
- Expanded their certified product offerings in Canada, with 100% of dishwashers and front-load washers, 81% of refrigerators, 60% of top-load washers, and 49% of dryers now ENERGY STAR certified. A total of 170 ENERGY STAR certified models are now on the market, up from 156 in 2023.
- Amplified ENERGY STAR initiatives via social media channels, including participation in the 12 Days of ENERGY STAR campaign, ENERGY STAR Day, ENERGY STAR Awards, and an ENERGY STAR promotional offer on Earth Day.
- Partnered with influencers to promote ENERGY STAR certified appliances, gaining 100 million impressions across social media platforms.
- Highlighted ENERGY STAR certified appliances at national retailer partner stores across Canada with in-store materials.
- Continued promotion of ENERGY STAR on the [samsung.ca](https://www.samsung.ca) website, including native filters, certification logos on applicable product pages, category banners and ENERGY STAR promotions.



# Efficiency Through Innovation

## Solar-cell remote

- Avoids waste from single-use batteries, it is projected to avoid the use of up to 99 million disposable batteries over a 7-year period.
- Designed with recycled materials to help reduce the environmental impact, using 24% recycled polyethylene terephthalate (PET).
- Runs on about 10% of the power that typical remote controls use, contributing to additional energy savings.

## Improvement of energy efficiency

The SolarCell Remote offers vastly improved energy efficiency as it can be powered by indoor lights. Based on users' TV watching patterns, the number of times they push the remote control's buttons, and the time spent using the remote control, the power consumption of the SolarCell Remote per day is 88%\* less than that of our 2020 remote controls.

## Phone chargers

- Our S25 15W charger, released in 2025, has a standby power consumption under 0.005W
- Our goal is to reduce standby to less than 0.005W by the end of 2025 for all our phone chargers, on our way toward zero

## OptiWash AI technology

- Reduces water and energy consumption in washing machines
- Determines the ideal amount of water and detergent per cycle

## Partnerships

### patagonia®

We partnered with Patagonia to decrease marine pollution. We developed the Less Microfiber Cycle which reduces microplastic discharge from fabrics by 54%, and an add-on filter preventing up to 98% of microplastics released during laundry cycles.

### BEST BUY

We partner with Best Buy to offer promotions and incentives that encourage customers to purchase ENERGY STAR-certified products.

### Walmart ✱

Given our advancements in product energy efficiency, we are a major contributor to Walmart's Project Gigaton, which aims to cut one billion metric tons (a gigaton) of greenhouse gasses by 2030.



# SmartThings

## SmartThings AI Energy Mode

Artificial Intelligence (AI) Energy Mode is an innovative feature within SmartThings Energy that can save consumers energy on select products and cycles.

AI Energy Mode learns your routines and automatically adjusts your devices to save energy. Using machine learning, it recognizes when your energy use goes beyond your targets set in SmartThings Energy. Plus, it gives you insights into why it happened.

Additional features like Optimal Charging and Optimal Scheduling go beyond AI Energy Mode to help users save energy – all available in SmartThings Energy.

## SmartThings Flex Connect (DR) Program

The Flex Connect program is a DR program that gives California and New York SmartThings Energy users another way to save energy at peak demand times. Eligible users can now leverage their devices in the program to save energy and earn Samsung Rewards.

Users have the flexibility to automate a large variety of loads like plugs, AC, lights, TVs, and appliances in Flex Connect. The program automates leveraged devices to participate in an event when a Demand Response (DR) signal is received, like when extreme weather causes electricity demand to surge. Reduced demand on the energy grid helps balance and stabilize the supply and demand of energy.

## Energy Rewards

Saving energy can be even more fun with SmartThings Energy Rewards. Users can now experience gamified elements, including reaching new Energy Levels, based on energy savings obtained in the home through things like AI Energy Mode.

When users save energy efficiently, they can receive an Energy Stamp. This can be converted into Samsung Rewards and used to purchase products on our website. Users can earn one Energy Stamp per day for every 400Wh of electricity saved, which can be converted to a total of 20 Samsung Rewards Points.

## SmartThings Partnership with Electricity Maps

Established in 2023, this partnership helps inform SmartThings users via API integration by providing real-time historical and forecasted data on their carbon emissions based on home electricity usage.

The integration allowed for the launch of pivotal features within SmartThings Energy, like Optimal Charging, Optimal Scheduling, and AI Energy Mode.



## Innovative Ways SmartThings Saves Energy

### Leveraging Machine Learning with SmartThings Energy AI Mode

Set energy use targets and our model will identify when use exceeds that threshold.

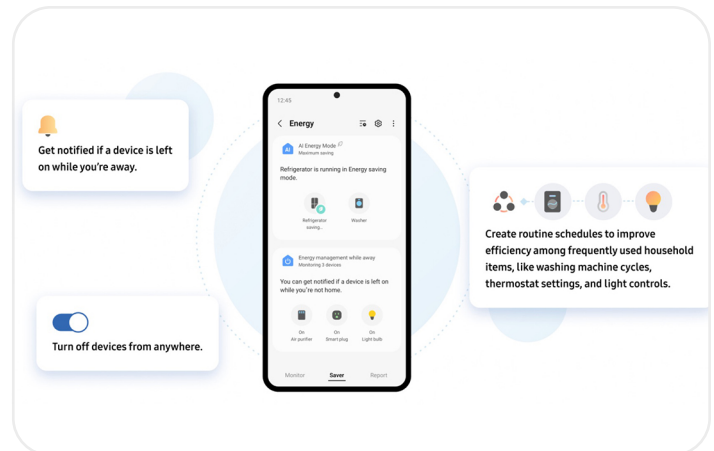
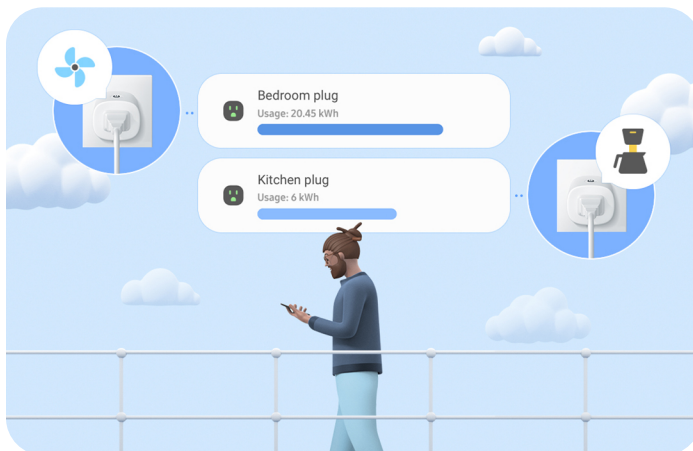
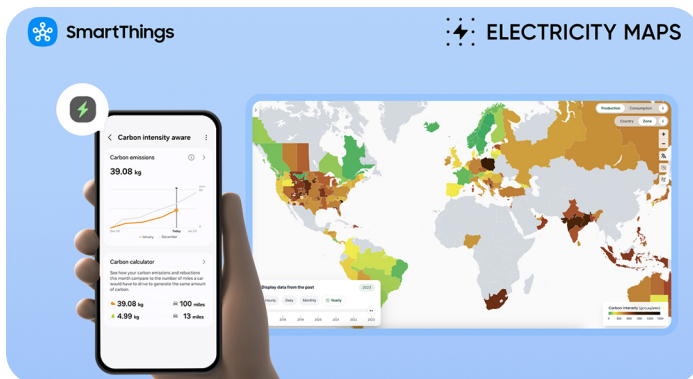
### Reducing Energy Demand with Flex Connect

Automate loads like plugs, lights, and TVs to balance supply and demand of energy.

### Tracking Real-time Carbon Emissions Data with Electricity Maps

Inform users via API integration about their home electricity usage, backed by historical and forecasted data.

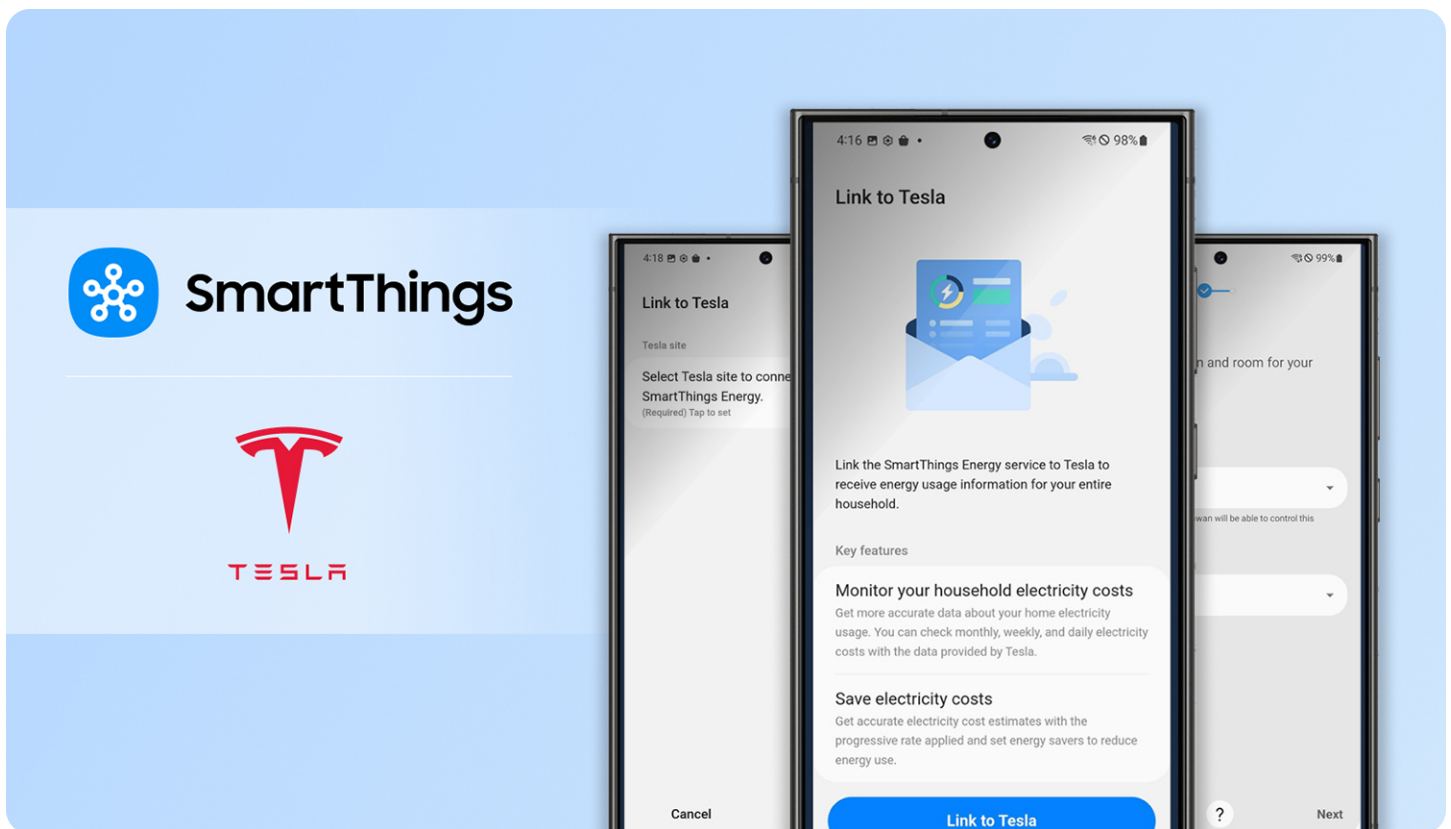
Source: <https://blog.smartthings.com/smartthings-energy/embrace-green-routines-with-smartthings-energy/>



## SmartThings Announces Tesla Integration

Tesla Solar and Powerwall products are now part of the SmartThings Energy platform. Tesla users can enable Tesla notifications in the SmartThings app and receive home energy notifications and alerts through their connected Samsung TVs and mobile devices.

When a power outage occurs, the Powerwall automatically detects the outage and instantly powers the home with stored backup energy. If a storm is forecasted, Storm Watch automatically charges the Powerwall to ensure users are prepared.





## Building Net Zero Homes with SmartThings

We are taking our SmartThings Energy offering to the next level by placing it at the core of the Net Zero Home – where all of a household's energy consumption is managed with energy generated within the home itself, leading to significant energy savings for the environment and cost savings for the consumer. **Today, there are more than 1.85 million app users in the U.S. alone.**

Our partnership with Siemens on the Smart City housing project in Sterling Ranch, Colorado will further our mission to support sustainable housing and empower users to live more eco-conscious lives.



ENERGY STAR Certified  
Smart Home Energy  
Management System

**Our efforts to enrich and expand SmartThings Energy led the EPA to award us the industry's first mass-market Smart Home Energy Management Systems certification.**

Download the  
SmartThings App



To foster a circular economy, we design our products to be repaired or recycled easily. We reduce e-waste in landfills through upcycling and convenient repair options.

# Product Steward- ship

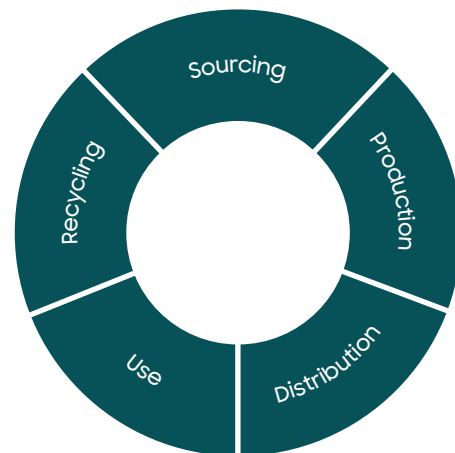


## Life Cycle Assessments

To understand the full impact of our products, we conduct life cycle assessments.

Check out our Product Carbon Footprint reports for each product category:

- [Mobile](#)
- [Home Electronics](#)
- [Home Appliances](#)



## Responsible Recycling

Our global e-waste recycling program is one of the largest in the tech sector. Since 2012, we've collected and recycled an average of 100 million pounds of e-waste in the U.S. per year, amounting to a total of over 1.4 billion pounds of e-waste. [We offer over 1,700+ recycling locations across the U.S.](#) to responsibly recycle old or unwanted electronics. In addition, [we offer a mail in service for Samsung branded products directly to our recycling partners.](#)

At Samsung Austin Semiconductor (SAS) foundry, 97.35% of trash is diverted from landfills and recycled. In 2025, SAS maintained its gold Zero Waste to Landfill certification.

As of the end of 2024, we achieved:

# 6.9M

**6.9 million metric tons** of e-waste have been collected globally since 2009

# 97%+

**97%+ of waste** diverted through methods not involving thermal processing

# 80

**80 countries** with e-waste recycling programs

Source: [2025 Global Sustainability Report](#)

### Our goals

# 10M

**10 million metric tons** of e-waste recycled globally by 2030

# 25M

**25 million metric tons** of e-waste recycled globally by 2050

# 180

**180 countries** with e-waste recycling programs

## Our Recycling Partners



All of our semiconductor operation sites received UL's Zero Waste to Landfill validation gold level or above, meaning these sites achieve at least 97% waste diversion through methods not involving thermal processing.



We partner with Call2Recycle in the U.S. and Canada to collect rechargeable batteries and mobile phones.



We adopted Basel Action Network's (BAN) EarthEye™ service to ensure e-waste is handled properly. We also prohibit recyclers from exporting non-working electronics to developing countries.

### UBREAKIFIX

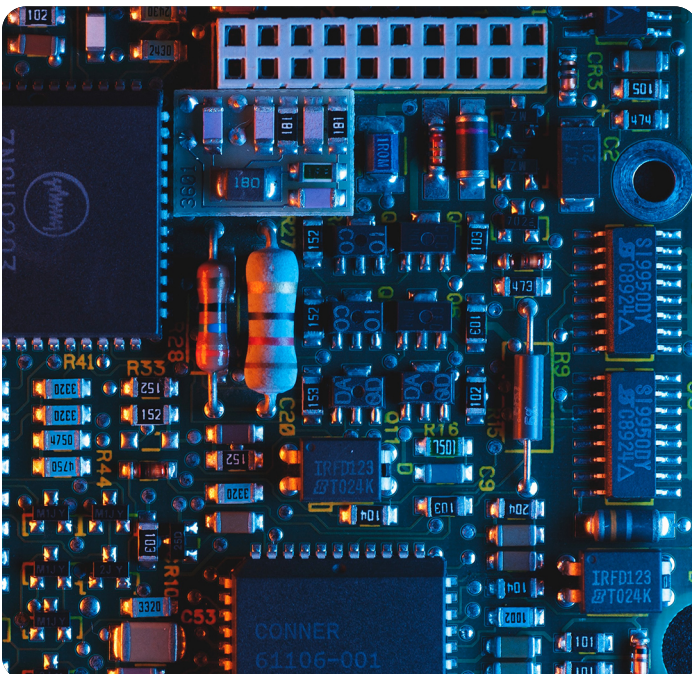
We partner with uBreakiFix to help customers responsibly dispose of their electronic devices at 700+ locations nationwide with 340+ We Come To You Vans.



The partnership with Batteries Plus has been extended to more than 171 stores to offer even more convenient in-warranty walk-in service for Galaxy smartphone repairs, often completed on the same day.



Our appliance haul-away programs are run multiple times a year in partnership with Best Buy to help ensure products are responsibly recycled.



The Consumer Technology Association® (CTA) launched the Consumer Technology Circularity Initiative (CTCI), a groundbreaking and voluntary industry initiative to reduce waste, encourage more reuse, enhance recycling, reduce climate impact, and see less consumer electronics discarded.

Announced on the first day of CES® 2024, CTCI highlights industry innovations across the lifecycle of consumer technology products. Samsung is one of the founding members of the new circularity initiative, as well as Lenovo, LG Electronics, Panasonic, and Sony Electronics Inc.



# Product Upcycling

## Galaxy upcycling at home

Galaxy phones can be repurposed into a sound sensor, illumination sensor and notification sender for a smartphone via the SmartThings app.

## Certified Re-Newed

Through our Certified Re-Newed program, old mobile devices are refurbished. Consumers get outstanding performance at a lower price, while contributing to reduced GHG emissions.

## Trade-in and take-back programs

We offer convenient and responsible take-back options for Samsung-branded electronic products nationwide for qualifying MX products and TVs.

## Reducing waste through upcycled packaging

Packaging designed to be upcycled as everyday items has been implemented in all TV products. We are expanding this to include vacuum cleaners, air purifiers, and more.



## Repair

Our mission is to deliver a customer-first care experience as innovative as our products. To achieve this, we have a vast network of repair options for our customers, including self-repair options, mail-ins, over 340 "We Come To You" vans offering in-person service and same-day repair for Galaxy devices in over 2,000 retail locations nationwide.

We've expanded our Self-Repair Program with our partnership with Encompass Supply Chain Solutions, giving you more ways to expand the life of Samsung products by taking product repair into your own hands.

Samsung has also expanded Same Unit Repair (SUR) care options with AT&T to enable customer to schedule in-warranty or walk-in appointments at nearly 700 locations nationwide across Samsung retail or uBreakiFix by Asurion stores. The partnership with Samsung and uBreakiFix by Asurion has been expanded to 675 uBreakiFix stores, making quality and convenient in-person device care more accessible. These stores boast the highest Net Promoter Scores (NPS) in the network, 5.5% higher than the broader network.

At the end of the day, we see Care as part of our effort to make a positive impact on the environment and support a sustainable circular economy.

Our network of mobile repair providers has over 81% coverage in the U.S. for in-person, same-day service, usually in 2 hours or less. This includes:

**2K+**

Total Authorized  
Service Centers

**1.5K+**

Independent Service  
Providers (ISPs)

**9K+**

Samsung Mobile-certified  
repair technicians in the U.S.

To find a repair location, we offer a range of options through [our repair locator site](#).

We design hardware and packaging with a circular economy in mind. By using recycled materials and removing single-use plastic from our packaging, we are working to ensure that resources can be given a new life.

# Sustainable Materials

# Our products give a new life to materials

We are constantly looking for ways to minimize our impact on the land and sea. By focusing on plastic waste as one of the biggest threats to the marine environment, we have developed technology to recycle discarded fishing nets and are continuing our efforts to improve circularity by recycling resources.

Along with the recycled plastic, rare earth elements, steel, and glass, the Samsung Galaxy S25 Series released in 2025 incorporates new recycled materials such as recycled gold, copper, cobalt, and aluminum. The Galaxy S25 and S25+ frames also incorporate recycled Armor Aluminum.

In addition, the Galaxy S25 uses recycled cobalt extracted from previously used Galaxy smartphones and batteries discarded during the manufacturing process through Circular Battery Supply Chain. Furthermore, recycled plastics from wafer trays discarded during the semiconductor manufacturing process have been newly applied.

Our efforts to scale the use of recycled materials extend to televisions as well. The graphite sheets of the 2024 and 2025 Neo QLED 8K televisions, used for internal heat dissipation, contain recycled graphite<sup>9)</sup> extracted from end-of-life batteries.



2025

- All of our mobile products incorporate recycled materials
- 768,811 tonnes of plastic containing recycled materials used cumulatively in DX products since 2009
- Eliminated single-use plastic from mobile packaging
- Incorporate recycled cobalt in S25 sourced through Circular Battery Supply Chain

2030

- Incorporate at least one recycled material in every module of every mobile product by 2030
- Apply recycled plastic to 50% of plastic parts in DX products
- Establish a recycling system for minerals from collected waste batteries

2050

- Apply recycled plastic to 100% of plastic parts in DX products

Source: 2025 Global Sustainability Report



## Chemical Management

We have shown leadership in the removal of high global warming potential (GWP) refrigerants from our refrigerator products, moving to the more environmentally preferable R-600 (isobutane), ahead of U.S. Federal and State restrictions

Samsung remains committed to facing the challenge that PFAS poses to the complex consumer products industry. We have conducted extensive reviews of food contact and drinking water contact parts in our appliances to determine if any PFAS was present, and we have worked to replace affected parts with PFAS-free alternatives prior to State requirements. We require all suppliers of all parts to disclose any PFAS in all homogenous materials - regardless of application - as we work to address the ongoing challenge of PFAS in complex products.

## Product Packaging

We continue to expand our mobile, TV and appliance boxes and manuals to include recycled and/or sustainably sourced materials. All interior packaging has been redesigned to reduce its environmental footprint and consume fewer resources.

### Packaging for the Galaxy S25, Fold7, and Flip7

0%

virgin plastic

100%

recycled and FSC-certified paper

100%

of the paper we use in packaging and manuals is certified by global environmental organizations like the Forest Stewardship Council.

100%

of the smelters we source metals from are certified by the Responsible Minerals Assurance Process to avoid conflict minerals.



We have eliminated all plastic in mobile packaging this year. However, some countries continue to use shrink wrap (e.g., Indonesia, Pakistan, Thailand) and plastic sealing label (e.g., Peru) as per requests from partners.

Chargers produced and approved before 2021 use plastic packaging and may still be available in some countries.

Samsung is committed to reducing the climate impact of our operations. We have a three-pronged strategy: we optimize the efficiency of our processes and products to reduce our energy consumption, expand our use of renewable and green power to match our load and avoid landfill waste.

# Sustainable Operations

# Reducing Our Energy Consumption

Our energy management efforts enable us to understand our operations' energy, and we use this information to inform our goals and capital improvement investment strategies. Samsung continues to mandate ENERGY STAR products in our facilities and encourage vendors to purchase and use ENERGY STAR products when providing products or services.

# 9.3%

reduction in our energy use compared to an established baseline\*

\*Baseline: 2018; SEA Energy Program Performance Report

# 84

ENERGY STAR-certified EV charging stations at our facilities

# 100%

of our corporate vehicles will be replaced with ZEV by 2027

# 18

As of 2024, Samsung obtained Platinum Zero Waste to Landfill validations in 18 manufacturing sites

At Samsung Semiconductor, Inc in 2025, we upgraded our site from LEED Silver to LEED Gold by adding to our sustainable practices in water, waste, transportation, and more.

At Samsung Electronics America 12 of our buildings are ENERGY STAR Tenant Space Recognized. In addition to the below office spaces, several of our repair facilities and warehouses are also ENERGY STAR certified.

In 2023, Samsung Electronics America enrolled in the ENERGY STAR Challenge for Industry for two of our manufacturing plants, 1651 N 1000 W (Logan, UT) and 240 Dividend Dr (Coppell, TX). Both sites have established their Energy Use Intensity (EUI) baseline as calendar year 2022 and are actively implementing energy efficiency measures and best practices to meet and exceed the 10% energy reduction goal. Our Logan Utah site already achieved 10% reduction in 2024!



Texas



New York City



Washington, D.C.



South Carolina



California



New Jersey



Georgia



Washington



North Carolina



Illinois



Pennsylvania



Maryland



Arkansas

**2021 GOAL****10%**

of Samsung premises  
ENERGY STAR certified

**NOW****100%**

of eligible Samsung premises  
ENERGY STAR certified or  
Tenant Space Recognized

## Renewable Energy

As a result of our renewable energy efforts, we rank among the top performers in the EPA's Green Power Partnership program.

In the U.S., **Samsung achieved five years of 100% renewable energy across our facilities and operations.** Our U.S. subsidiaries increased their renewable energy generation by installing solar power generating facilities in company buildings and purchasing Renewable Energy Certificates (RECs). As a result, our U.S. subsidiaries achieved a 100% renewable energy transition as of 2020.

**100%**

100% renewable energy is used  
to power worksites in the U.S.

**100%**

100% renewable energy is sourced to  
make semiconductor chips in the U.S.

### U.S. Manufacturing

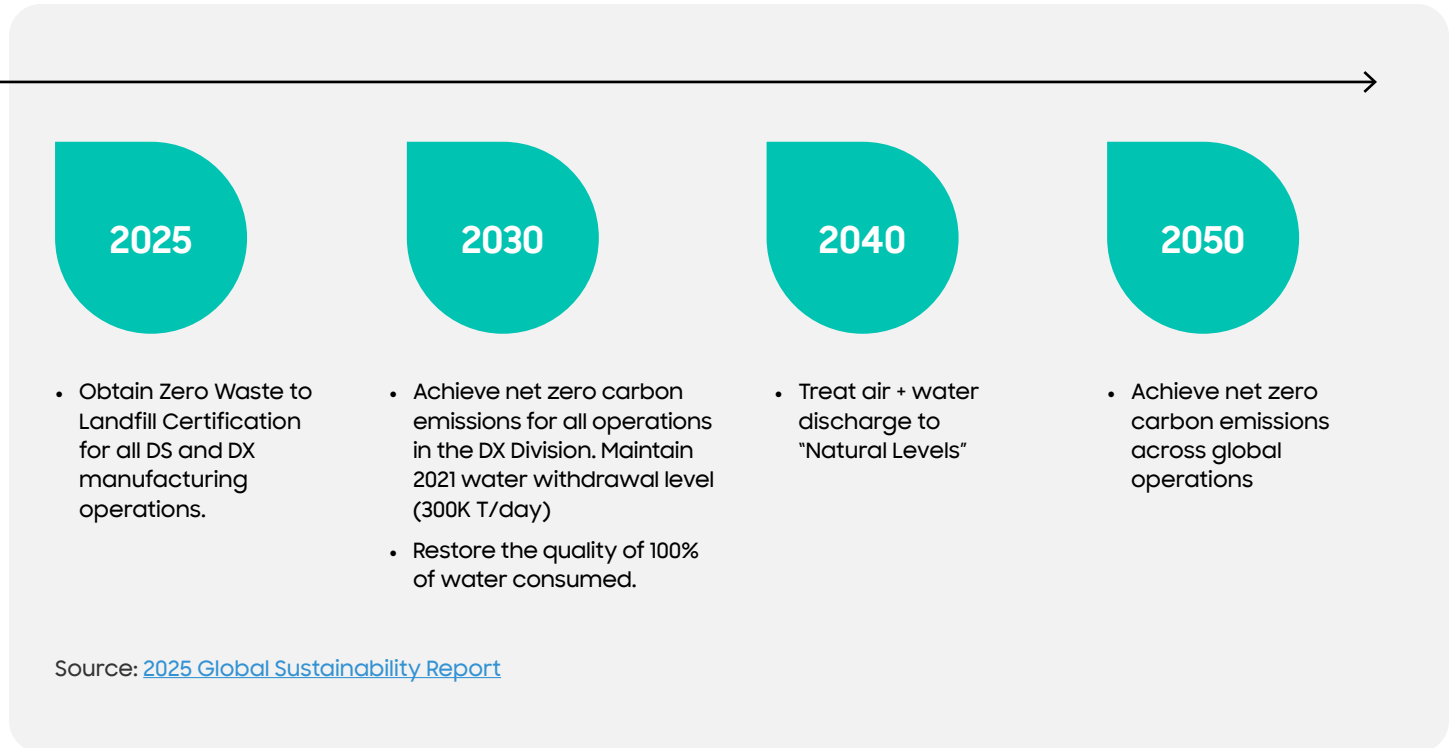
Our Samsung Austin Semiconductor site uses 100% renewable energy via renewable energy credits (Green-e certified) and virtual power purchase agreement (vPPA). 59,577 MWh of power has been produced from the vPPA in 2024.

### Leading Sustainable Innovation in Taylor, Texas

The Taylor site will launch operations in 2026, boosting the production of semiconductor solutions that will power next-generation technologies in areas like 5G, artificial intelligence (AI) and high-performance computing by using leading-edge sustainability strategies to promote carbon-free electricity use, conserve water resources, and reduce other environmental impacts.



## Our Zero Waste & Emissions Reduction Goals



### Reducing Waste at our U.S. Manufacturing Sites

Samsung Austin Semiconductor has committed to achieving the UL Platinum-level certification with a landfill diversion rate of 99.9% by 2025. To achieve this, the environmental team completed a waste composition analysis to determine the source and type of landfill waste in order to develop a focused solution. The environmental team has developed a recycling improvement plan to achieve this year's goal, and sustainability team executes an annual site wide waste segregation training to improve recycle and compost rates in the cafeterias through employee engagement.

## Reducing Our Logistics Carbon Footprint

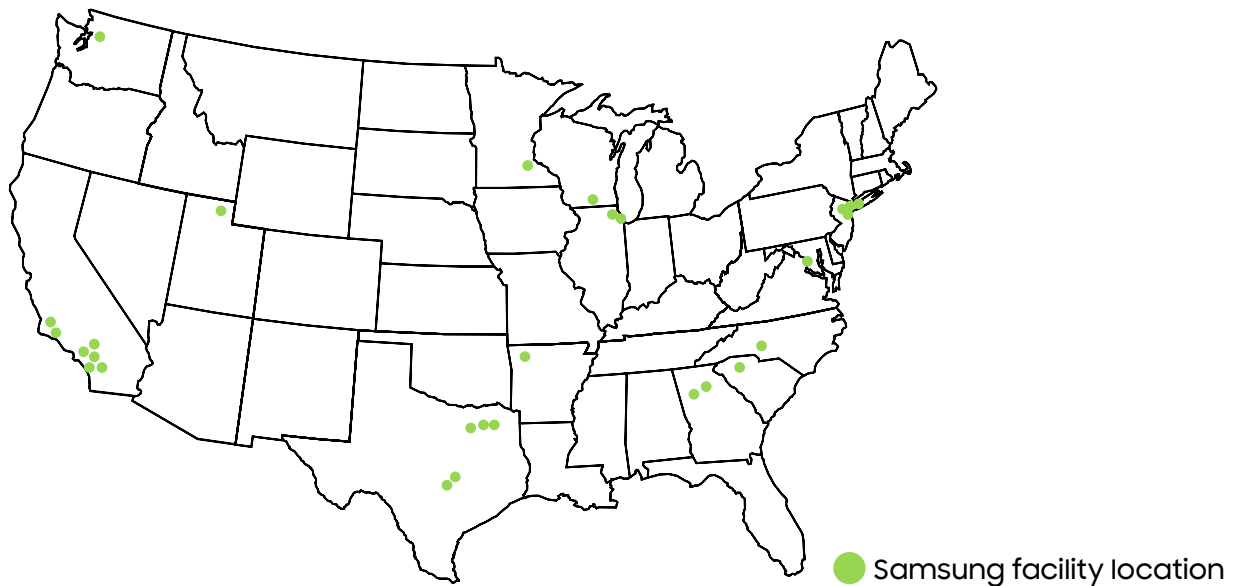
In 2024, Samsung Electronics America enrolled as a SmartWay Partner. We provide carbon tracking data and annual activity data like cargo tons and miles of freight shipped – taking into account SmartWay Carriers – plus other key performance data.

Partners can improve their transportation supply chains – such as by moving more ton-miles of freight with lower emissions and less energy, and often at a lower cost – while demonstrating corporate leadership for customers, shareholders, and other stakeholders. By reducing the carbon footprint of freight operations, companies also reduce risk and ensure long-term sustainability in their operations.

SmartWay's standardized tools and methods help freight shippers optimize supply chain performance to reduce costs and emissions, while earning recognition for their corporate environmental accomplishments.

## Sustainable Water Consumption

We strive to minimize water resource risks in our business operations. As part of our water stewardship efforts, we strive to minimize water resource risks in our business operations. As part of our water stewardship efforts, we recycled 1,090 million gallons of water at our Samsung Austin Semiconductor plant in 2024. Globally, Samsung Achieved water replenishment rate of 38.6 % with Korean sites' replenishment rate at 100% and received Alliance for Water Stewardship (AWS) Platinum certification at our Vietnam manufacturing sites in 2024.



## Our Manufacturing Footprint in the U.S.

**Samsung Electronics Home Appliance (SEHA):** Samsung's state of the art home appliance factory in Newberry, South Carolina became the company's first U.S.-based home appliance manufacturing facility in 2017.

All products manufactured at SEHA - top load and front load washers, as well as washer & dryer combos - are ENERGY STAR certified.

SEHA uses renewable energy for its operations, and prioritizes initiatives such as e-waste recycling, food waste recycling, and the use of biodegradable materials. SEHA achieved Zero Waste to Landfill Gold Operations, with 98% diversion and 2% Thermal Processing with Energy Recovery.

**REC Purchases:** SEHA intends to make a REC purchase for year 2025 as per attached PUMI.

SEHA currently has RBA Platinum Certification and is scheduled for our next audit to maintain such status in late 2025.

**RBA Background:** On October 12, 2023 SEHA completed the Responsible Business Alliance (RBA) audit that was conducted October 10-12 at SEHA and held the closing conference with the RBA audit firm. RBA is an onsite compliance verification program conducted by independent auditors, and covers important topics in great detail including Labor, Ethics, Supply Chain Management, Health & Safety, and Environment. This recognition program validates commitment to corporate responsibility and is used globally as an objective standard of excellence.

SEHA achieved a 100% result, which means no findings, and thus we received Platinum certification, which is the highest rating possible. Findings are categorized as Priority, Major, Minor, and Risk of Non-conformance. None were found at SEHA. Additionally, no Opportunities for Improvement (OFIs) were found, which is an exceptional result.

Samsung Electronics Home Appliances America, LLC Newberry, SC has achieved Zero Waste to Landfill Gold Operations, 98% diversion, with 2% Thermal Processing with Energy Recovery.

## Samsung Austin Semiconductor and Samsung Taylor

Located near Austin, Texas, Samsung Austin Semiconductor (SAS) is Samsung's first U.S. semiconductor manufacturing facility. Its Taylor, Texas location will step up the production of semiconductor solutions in 2026.

As part of a \$4.745B CHIPS Act funding agreement, SAS committed to achieving Net Positive Water by the end of 2029 for the Taylor site and 2031 for the Austin site. Efforts include process optimization, water reuse, watershed restoration projects, and community collaborations.

SAS aims for UL Platinum Zero Waste to Landfill certification with a 99.9% landfill diversion rate by 2025. A waste composition analysis was conducted to form a recycling improvement plan, supported by annual waste segregation training.

SAS continues to be committed to the use of 100% clean electricity through the purchase of Green-e® certified Renewable Energy Credits (RECs) and participation in our Virtual Power Purchase Agreement (VPPA).

## Spotlight on Samsung Semiconductor, Inc in the U.S.

Samsung Semiconductor, Inc continues to expand sustainability efforts in the U.S.

In 2025, Samsung Semiconductor, Inc (SSI) remains committed to reducing emissions across its operations and running on 100% renewable energy by obtaining energy from on-site solar panels as our first means of energy supply. For the remainder of our demand, we continue to be a part of Community Choice Aggregation (CCA) to directly procure 100% RE from the grid.

In 2025, SSI obtained LEED Gold for its office site, an upgrade from LEED Silver, by expanding sustainable practices in water, waste, transportation, and more. This included expanded waste sorting across its entire office site and reduced availability of disposable, one-time-use containers in our café. In addition, SSI offers 86 subsidized charging ports for EV vehicles in our parking lot to help encourage employees to drive EVs to the office.



## Earning Recognition for Our Green Power Commitment

We have been a leader on the EPA's Green Power Partnership list since 2019, when our semiconductor operations transitioned to 100% renewable energy.



2019

EPA Green  
Power Leadership  
Award

#15

EPA ranks us #15  
among Top 100 in green  
power users

#8

EPA ranks us #8  
among 100% green  
power users

#7

EPA ranks us #7 in  
Green Power among  
Tech and Telecom

Around the world, our technology is helping to accelerate the decarbonization of the global economy. Through investments in our communities and partnerships with our suppliers, we are training and inspiring the next generation of innovators to create the ethical, low-carbon economy of tomorrow.

# Sharing Our Values

# Employee Volunteerism

## Samsung Gives Day of Service

We have a long history of giving back to our communities. 2024 marked our fourteenth Samsung Gives Day of Service.

We have a long history of giving back to our communities. 2024 marked our fourteenth Samsung Gives Day of Service. With Samsung's core values of people and co-prosperity, we seek to empower individuals to achieve their full potential and pioneer positive social change. The day included 17 events dedicated to Samsung's commitment to the environment, including education on the effects of food growth, production, and consumption on our world's food system. Samsung is eager to continue driving change in communities and working together for a better tomorrow.



# Employee Awareness

We practice our commitment to sustainability both outwardly and inwardly by building awareness and education among our employees. We host "Sustainability 101 Series" and frequently update employees on our sustainability efforts.

SEA interns worked on a Sustainability Capstone Project, where teams identified and built a roadmap for a Sustainable Development Goal that Samsung should focus on. Presentations covered the intersection between sustainability and key business priorities like energy efficient networks, food waste, and logistics.

Samsung educates all new hires about our environmental conservation initiatives through annual sales trainings, new hire onboarding, internal channels and communications, recognition opportunities, and more.



## Education and Youth Outreach



### Using STEM to Solve Social and Environmental Issues

Each year, we host a national competition comprising a total of \$2 million prizes for public schools, grades 6-12, in which students are asked to consider how STEM can be used to create change in their communities. With the help of their teachers, students can compete to win up to \$100,000 in prizes for their school, plus the opportunity to work with our employees to develop their prototypes. Solve for Tomorrow has expanded to 68 countries, reaching over 2.3 million students. The 15th annual competition provided a \$25,000 Sustainability Innovation award to help bring the winning school's project idea to life. The 2024/25 winner was the Academy of Aerospace and Engineering in Windsor, CT. They won for their project, H.E.A.T-M.A.P., an AI-powered heat mapping platform that helps communities combat the Urban Heat Island (UHI) effect. They used thermal imaging, 3D printing, and smart data visualization to create their solution. Learn more about their outside the-box, sustainable solution [here](#).



# Mobilizing the Galaxy Community to Take Action

We [partnered](#) with the United Nations Development Programme to magnify the voices, stories and ingenuity of young leaders helping to achieve the program's 17 Sustainable Development Goals (SDGs). To date, Generation17 amplified the young leaders' efforts to create positive change by generating 70+ articles and 40 million+ impressions. Through 420+ hours of mentorship, 37+ Galaxy devices and 40+ global events, Generation17 is progressing all of the SDGs, such as climate action and poverty alleviation, in 64+ countries.

<b>Brigitta Gunawan</b> Indonesia  <p>"At 17, it struck me that we were nothing but a small speck in a big world that remains largely unexplored—that if we continued as bystanders, we would see this fragile ecosystem cripple within our lifetime—so there I was, ready to co-create a future where people and planet prosper."</p> 	<b>Jose Francisco Ochoa</b> Ecuador  <p>"The ocean sustains life, yet many don't realize how deeply connected we are to it. We must embrace innovation, education and collective action to protect our blue planet before it's too late."</p> 	<b>Renata Koch Alvarenga</b> Brazil  <p>"Climate disasters are exacerbating gender inequality, but through the Global Goals, we can raise awareness of the need for women's leadership in climate decision-making and ensure no one is left behind."</p> 	<b>Rahaf Abu Mayyaleh</b> Jordan  <p>"Green technology is key to a sustainable future, and young innovators have the power to lead this transformation. Through IBTKRGO, I strive to bridge the gap between technology and sustainability, ensuring solutions that serve both people and the planet."</p> 	<b>Soumya Dabriwal</b> India  <p>"Access to Sexual and Reproductive Health and Rights (SRHR) is a fundamental human right. Through collective advocacy and innovation, we can break barriers, challenge stigmas and build a world where everyone has the freedom and resources to make informed choices about their own bodies and futures."</p> 
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**GENERATION17**

# Samsung SeaTrees Partnership with Ocean Mode

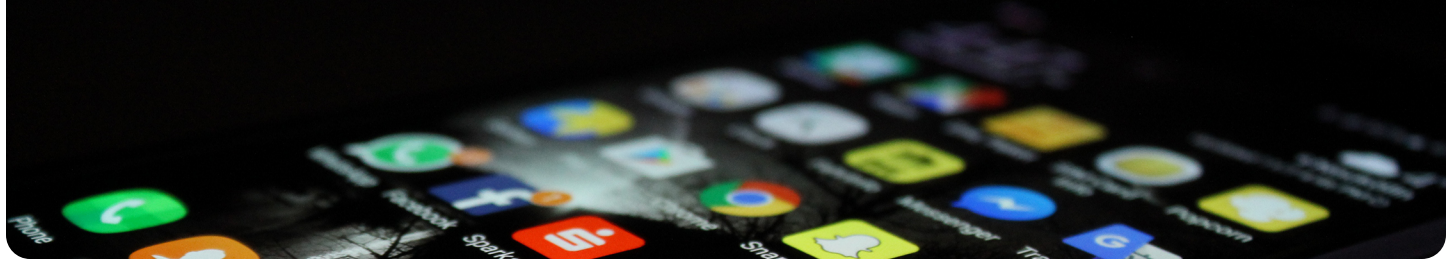
[Samsung and Seatrees have joined forces](#) to restore and safeguard one of the planet's most threatened ecosystems: coral reefs. Bringing together mobile innovation, marine science, and community action, the partnership aims to accelerate reef restoration in some of the world's most biodiverse coastal regions. With Samsung's advanced imaging and mobile technology, scientists and local conservationists can now monitor coral health more easily – in the field, with a handheld device. By using a smartphone to capture underwater pictures, restoration groups are now able to apply 3D photogrammetry – a technique that stitches overlapping images into detailed 3D models of reefs – to track coral growth, biodiversity, and structural changes accurately and efficiently. This major step forward in accessibility empowers local communities to measure restoration progress right in their backyard – a critical step forward for grass-roots conservation and climate action. In partnership with University of California San Diego and the Scripps Institution of Oceanography, the initiative is now active in Fiji, Indonesia, and the Florida Keys. Each site is equipped with Samsung Galaxy devices featuring Ocean Mode, a custom camera setting designed specifically for a diver or snorkeler to easily capture high-quality imagery of coral reefs.





## Samsung Global Goals App

Installed on over 300 million Galaxy phones worldwide, this [app](#) makes it easy for the next generation of young leaders to learn about the SDGs and raise more than \$17M in support of the UN Global Goals.



## Labor and Human Rights

We respect the freedom and human rights which all people deserve. Based on the United Nations Guiding Principles on Business and Human Rights and with the assistance of third-party experts, we established our own framework to identify, prevent, mitigate and account for any adverse human rights impacts across our business activities. In March 2022, we joined the UN Global Compact, expressing our commitment to embedding its principles in all aspects of our management and corporate culture and expanding our cooperation with global stakeholders, including the UN.

We have processes in place to ensure that our partners and suppliers take the same approach to the rights of those with whom they work. The cornerstones of our human rights and labor policies are our [Global Code of Conduct](#) and [Supplier Code of Conduct](#), which describe standards of integrity that our worksites and supply chain partners must meet, respectively.

## Governance

### Launching the SEA Sustainability Council and Sustainability Strategic Framework

In 2023, we launched the SEA Sustainability Council and a Sustainability Strategic Framework to minimize risk, drive cost synergies, and identify new opportunities across our business channels. This enables us to heavily focus on renewable energy, sustainable materials, responsible recycling, and energy efficiency.

## Guiding Principles

We have established a robust set of policies and guidelines to protect labor and human rights based on:

**Universal Declaration of Human Rights, UN Guiding Principles in Business and Human Rights, Organization for Economic Co-operation and Development Guidelines for Multinational Enterprises, UN Convention of the Rights of the Child, International Labor Organization Declaration on Fundamental Principles and Rights at Work, Responsible Business Alliance Code of Conduct**



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# Everyday Sustainability