

Samsung Research



Our Journey towards a sustainable future

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Measure and report



Product Environmental Report

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Samsung Electronics Global Human Rights Principles

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2022 Sustainability Report

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02 Take actions to improve – measure and report again

Eco-Conscious Manufacturing Process

- Reducing GHG emissions by 6.03 million tonnes in the manufacturing process
 - Reducing GHG emissions by 3.03 million tonnes through improving flue gas treatment, change to alternative gases and reducing fuel consumption
 - Reducing GHG emissions by 480,000 tonnes by using high-efficiency equipment and parts, and by managing equipment power systems
 - Reducing GHG emissions by 2.52 million tonnes by using renewable energy
- Eco-conscious performance in the semiconductor manufacturing process
 - Managing water resources to save 6,857 tonnes of water per day and reducing sulfate ion concentration
 - Reducing and recycling waste



Climate Action

- Reducing direct greenhouse gas emissions
- Shifting to renewable energy
- Decarbonizing our value chain

Circular Economy

- Using recycled materials
- Extending product life
- Collecting and recycling e-waste

Clean Tech Ecosystem

- Researching carbon capture and particulate matter
- Tackling environmental challenges through C-Lab

Sustainability in Operations

- Managing on-site waste
- Reducing water use and air pollution
- Managing chemicals

SolarCell Remote Control

- We developed SolarCell Remote Control that can be charged via sunlight or illumination without the need for disposable batteries. Recycled materials are used in the exterior of the remote control (for QLED TV from 2021, expanded to air conditioners in 2022)
- We plan to replace the lithium-ion battery with a supercapacitor, which emits less GHGs, and use this remote control for all smart TV products in 2022



03 Putting Environment at the Heart

