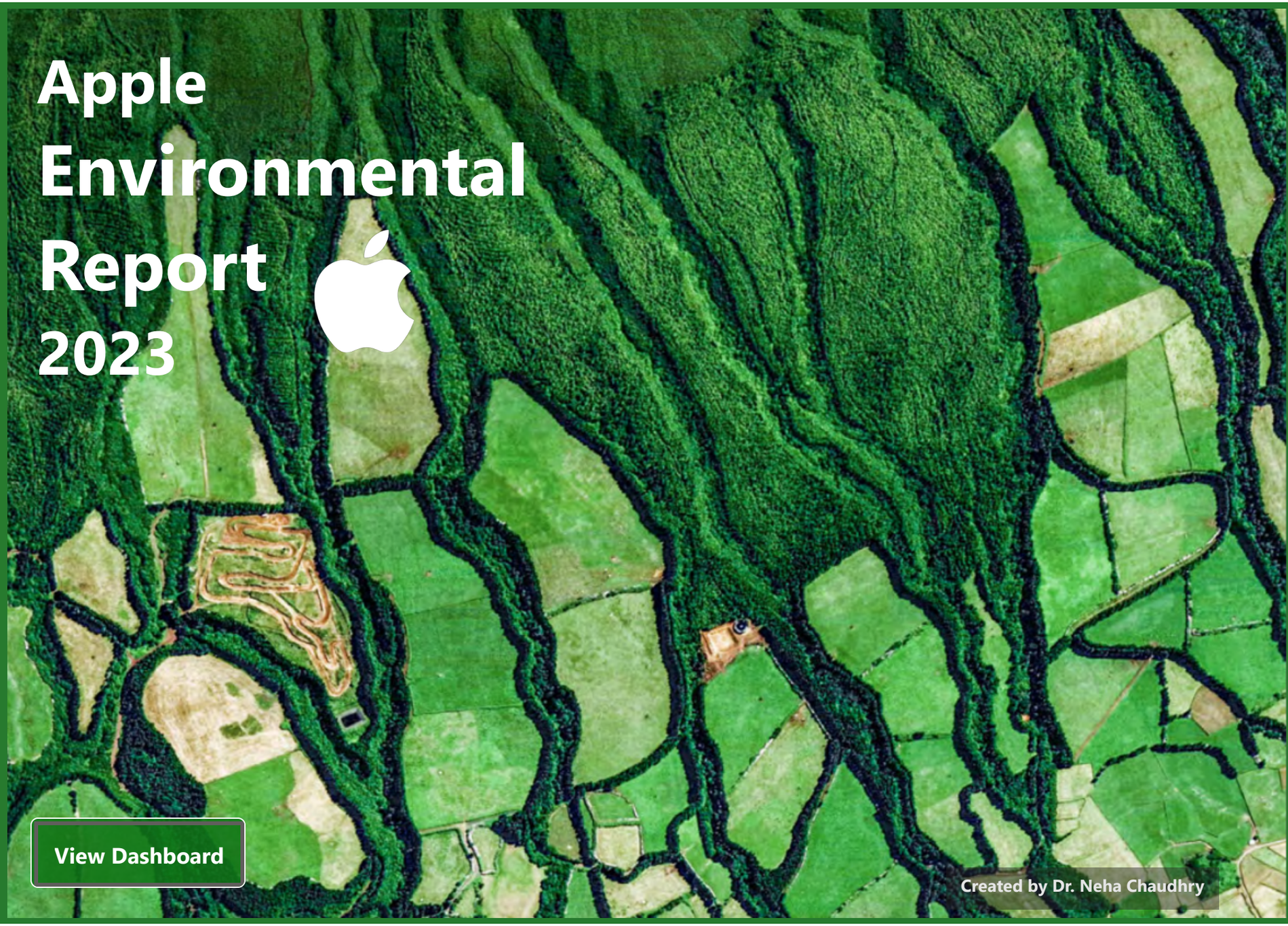
Apple Environmental Report 2023



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Created by Dr. Neha Chaudhry

Apple's Green Revolution: Charting the Path to Carbon Neutrality

We're committed to making all of our products **CARBON NEUTRAL** by 2030

HIGHLIGHT

We've reduced the emissions across our value chain by **OVER 45 PERCENT** since 2015.

Behind every Apple product is a plan for the future

Apple's carbon footprint through five pillars:

Low-carbon design
Design products and manufacturing processes to be less carbon-intensive through thoughtful material selection, increased material efficiency, and greater product energy efficiency

Energy efficiency
Increase energy efficiency at our facilities and in our supply chain by finding opportunities to reduce energy use, such as retrofitting outdated or inefficient equipment and systems.

Clean electricity
Transition our entire product value chain — including manufacturing and our customers' use of our products — to 100 percent clean electricity by 2030.

Direct emissions abatement
Reduce direct greenhouse gas emissions in our facilities and our supply chain through process innovation, emissions abatement, and moving away from fossil fuels.

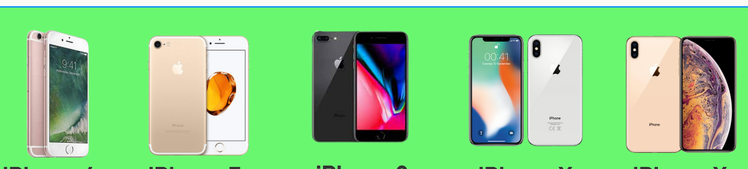
Carbon removal
In parallel with our emissions reduction efforts, scale up investments in carbon removal projects, including nature-based solutions that protect and restore ecosystems around the world.

Prepared by:- Dr. Neha Chaudhry

"How Have Apple's iPhone Carbon Footprints Evolved from 2015 to 2022?"

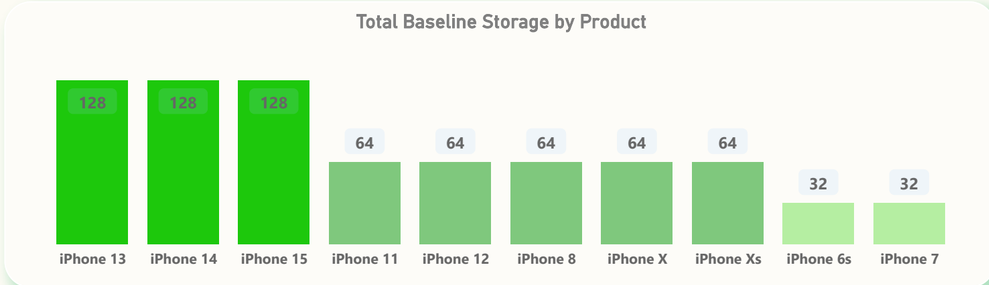
A detailed analysis of the changing carbon footprints of Apple's iPhone models.

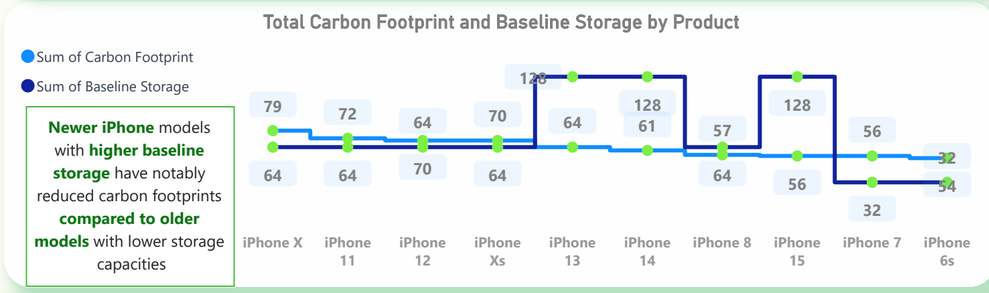
Release Year: 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023



iPhone 6s	iPhone 7	iPhone 8	iPhone X	iPhone Xs
54 Footprint	56 Footprint	57 Footprint	79 Footprint	70 Footprint

iPhone 11	iPhone 12	iPhone 13	iPhone 14	iPhone 15
72 Footprint	70 Footprint	64 Footprint	61 Footprint	56 Footprint

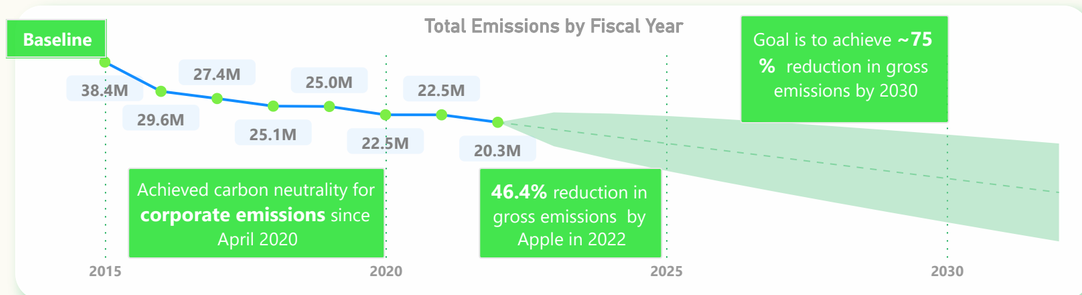




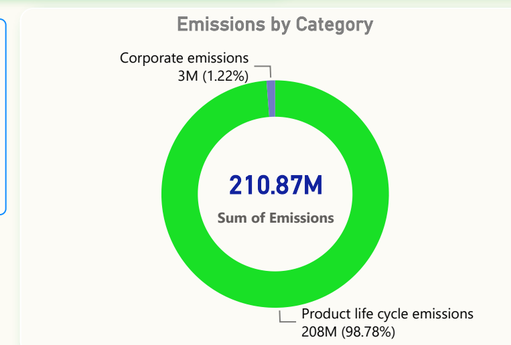
"Apple has notably reduced the carbon footprint of its iPhones over the years, with the latest **iPhone 15 (128GB) in 2023** having a carbon footprint of **56**, showcasing a consistent commitment to environmental sustainability and efficiency improvements."

"Environmental Impact and Emissions Analysis"

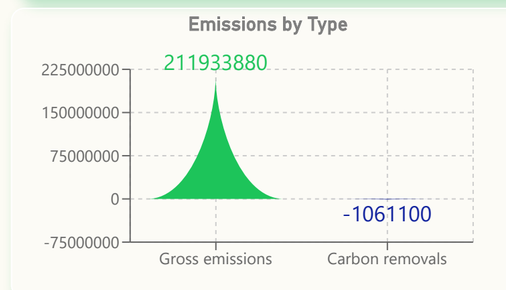
How has the company's corporate emissions and carbon offset performance changed over the past several years?



Apple's CO2 emissions are predominantly driven by its product life cycle **(99.78%)**, with only a minor portion originating from corporate emissions **(1.22%)**.To reduce carbon emissions, Apple should prioritize sustainability across its product life cycle and corporate operations.



Scope 1 emissions represent direct emissions from sources controlled by the reporting entity. These are emissions occurring within the organization's operational boundaries.
Scope 2 emissions represent indirect emissions associated with purchased energy (e.g., electricity) used by the organization. These emissions are not generated within the organization's boundaries but are linked to its energy consumption.
Scope 3 emissions represent other indirect emissions that occur outside the organization's operational boundaries but are associated with its activities, including its value chain.

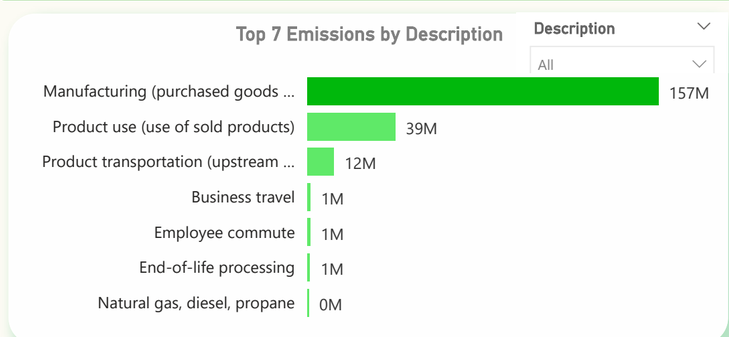


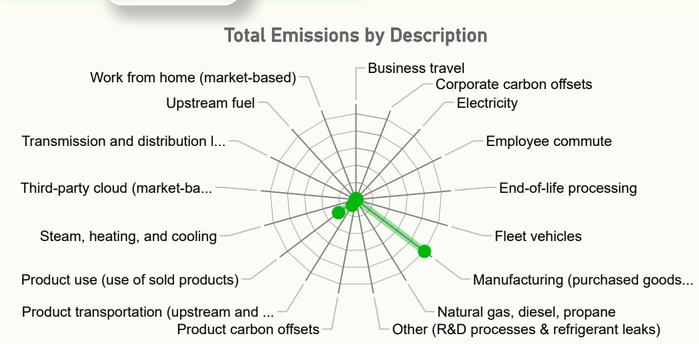
Scope 3
Business travel
Corporate carbon offsets
Employee commute
End of life processing
Work from home (market-based) Product carbon offsets

Scope 1
Fleet vehicles
Manufacturing purchased goods and services
Natural gas, diesel, propane
Scope 2
Electricity
Steam, heating, and cooling
Other (R&D processes & refrigerant leaks)

Scope 3
Product transportation (upstream and downstream) Product use (use of sold products)
Transmission and distribution loss (market-based) Third-party cloud (market-based)

Total Scope 1: **378K**
Total Scope 2: **134K**
Total Scope 3: **211M**





Apple's emissions by type show a substantial **gross emission of 21,193,380**, offset by **carbon removals of -1,061,100**, emphasizing the importance of managing emissions and adopting carbon removal strategies.

Most of Apple's product emissions result from **manufacturing purchased goods and services** (about 75% of total emissions), followed by **product use** (contributing to 19% of emissions), with the third category being **product transportation upstream and downstream**, amounting to around 12 million

"Is Apple's Growth Sustainable?"

What Do Financial Metrics Reveal?"

Apple has consistently grown its **revenue, market capitalization, and employee** base, indicating financial stability, investor confidence, and expansion.

Total Workforce size
1.08M

Employee Count Growth Rate
5.9%

*Apple's CAGR of **5.9%** reflects steady, gradual workforce growth, indicating sustained operations and workforce management.*

Total Revenue Earnings
2.24M

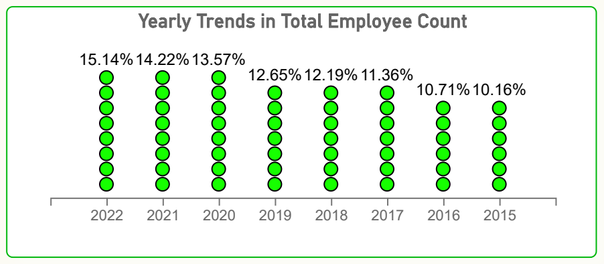
Revenue Growth Rate
7.8%

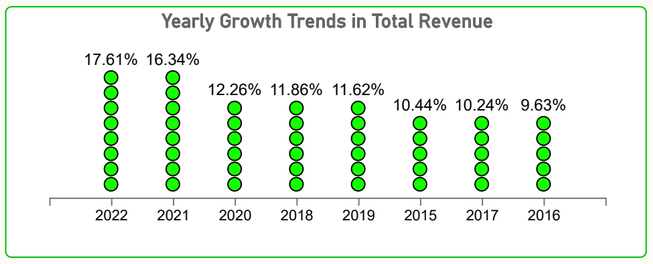
*Apple's 2015-2022 Revenue CAGR of around **8%** signifies the consistent year-over-year revenue growth, highlighting the company's robust financial performance and market expansion.*

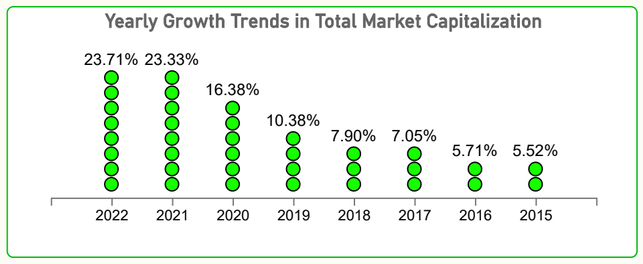
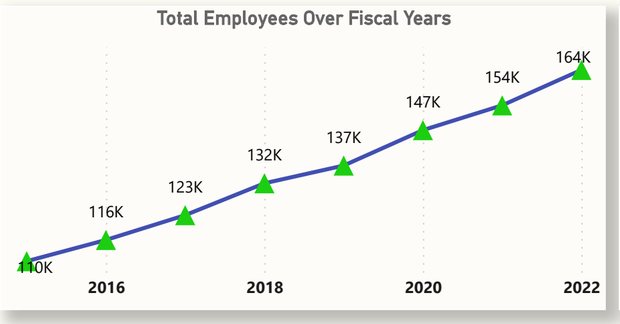
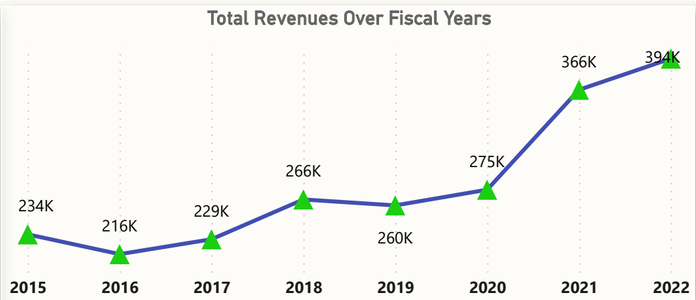
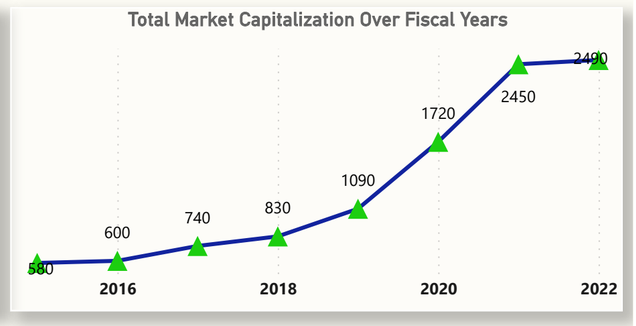
Total Market Capitalization
10.50K

Market Capitalization Growth Rate
23.1%

*The **23.1%** CAGR in Apple's market capitalization indicates a consistent annual increase, showcasing the company's financial stability, market value growth, and strong investor confidence.*







How Did Apple Perform Over the Years?