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iPhones Turning Green

Let it be known, Green iPhones changing the world



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emission of what the iPhones hold, what materials the iPhone utilizes, and the battery of the iPhone, using charts and infographics.

Gas emission continues to rise as a result of growth in population and industrialization. Apple acknowledges finding a solution to reduce Greenhouse gas emission by manufacturing their iPhone with a shortened life cycle.

As it was stated by Rodriguez that Apple utilized 'a strategy of planned obsolescence, resulting in a shorter life cycle, increased mining of rare earth minerals, higher rates of product turnover, and higher shipping costs and fuel usage'. This very much shows the impact of Apple's strategy of changing to a short life cycle.

Demonstrated in figure 1 and 2 page 4, Over the years Apple has decreased how much emission the iPhone holds, shown in the column chart below. From iPhone 5s to 8 there has been a decrease in how much kg it holds. Apple states 'As we reduce emissions to as low as we can, we invest in Earth's natural carbon removers'.

Apple has promised and stated that 'Climate change is a defining issue of our time. Our goal is for Apple and all of our products to be carbon neutral by 2030.' Apple has been focusing every year on methods to improve and make the new iPhones safer for the environment. In this magazine it will explore; the

Why these Materials ?



Apple has declared that they are prioritizing 14 materials that would benefit from transitioning to recycled or renewable sources first: which is aluminum, cobalt, copper, glass, gold, lithium, paper, plastics, etc. Since a lot of these materials can be recyclable and renewable, in a way which assists the company to produce more phones and also

beneficial for the earth e-waste system.

The infographic and doughnut charts below are a detailed analysis of the iPhone 8 and the materials that are utilized revealed from the inside and outside of the phone.

The iPhone 8 is made out of Aluminum, Glass, and other Material that are highly desired by recyclers. The plastic used in the iPhone is made out of 35 percent post-consumer recycled content, which helps reduce dependence on finite resources.

To continue its sustainability efforts, Apple announced planning and using more recycled materials in its new iPhones. For example one of their main material sources Apple is going to implement According to a Fast Company report, 'Apple

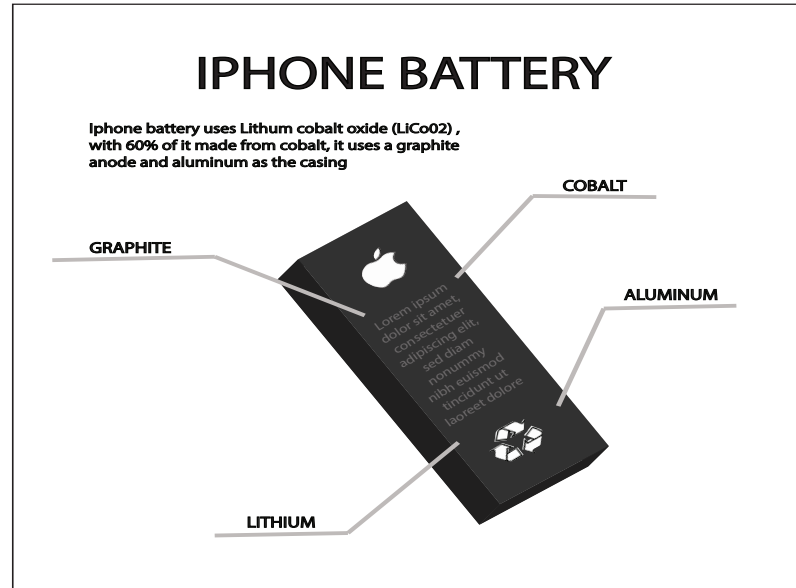
will use recycled tin in its phones' logic boards, use 35 percent post-consumer recycled plastic in speaker enclosures and 32 percent bio-based plastic for the frame around the cover glass.' This will help the environment by preventing 10,000 tons worth of iron ore being mined each year.

Apple utilizes a set of minerals that help create their phones are called Raw Earth Materials (REM), Rare Earth Elements (REE) refers to the 17 chemical similar element in the periodic table which consist of Scandium, Lanthanum, Yttrium, etc they have a key factor and characteristics in which they share is a magnetic conductive activity Which help contribute to a working iPhone.

Recyclable and Serviced Batteries

The iPhone Battery is made out of lithium-ion. The main factor that lithium ion contributes to the iPhone is its charges faster, it lasts longer, and lastly, it also has high power density for more battery life as Apple advises that using 'lithium-ion provides the best performance for your device, the batteries weigh less and last longer'.

Apple had implemented a short life span in the iPhone batteries. The effect of the limited short life span of the iPhone battery should be recycled and serviced. Apple advises that 'putting any battery directly in the rubbish is dangerous for the environment'. Apple's ask by servicing apple batteries only through apple or an apple authorised service provider, for sure it will be recycled for the safety and respect for the earth.



Overall, Apple is a great and promising company that is on the verge of making their iPhones and products safer for the environment and also for the future.

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Figure 1

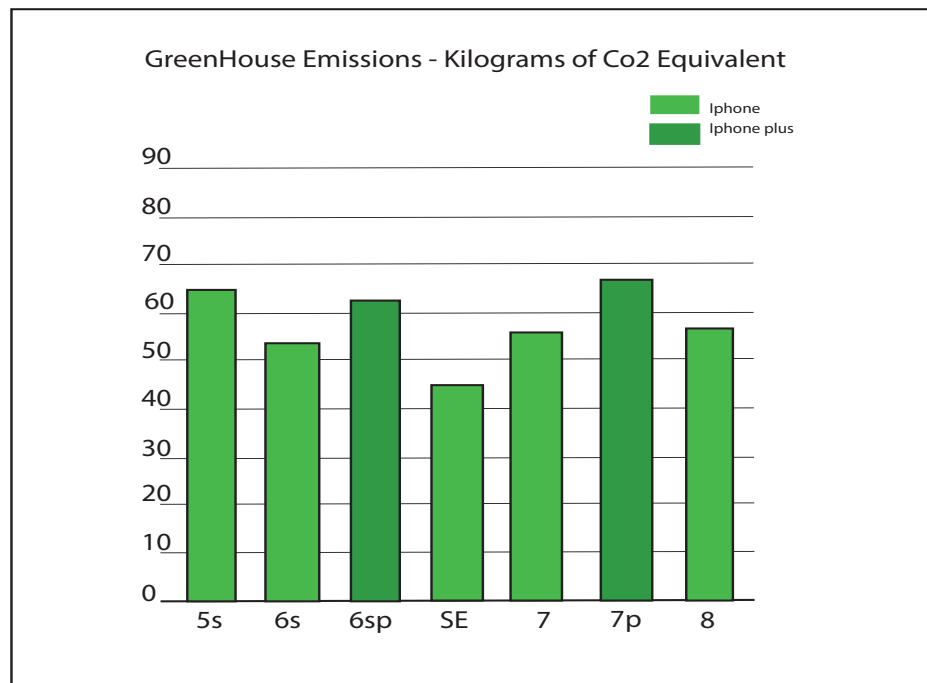


Figure 2

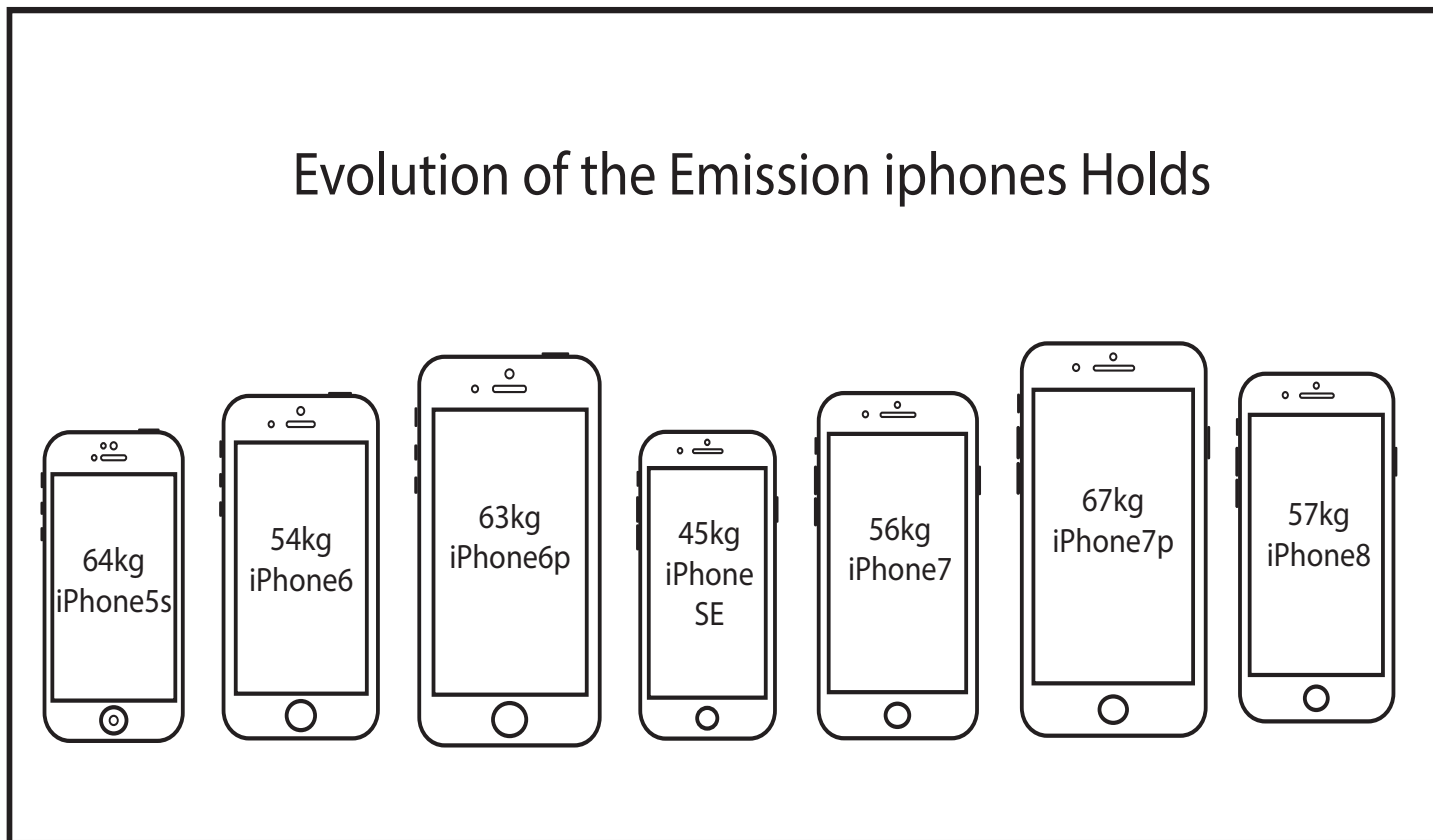


Figure 3

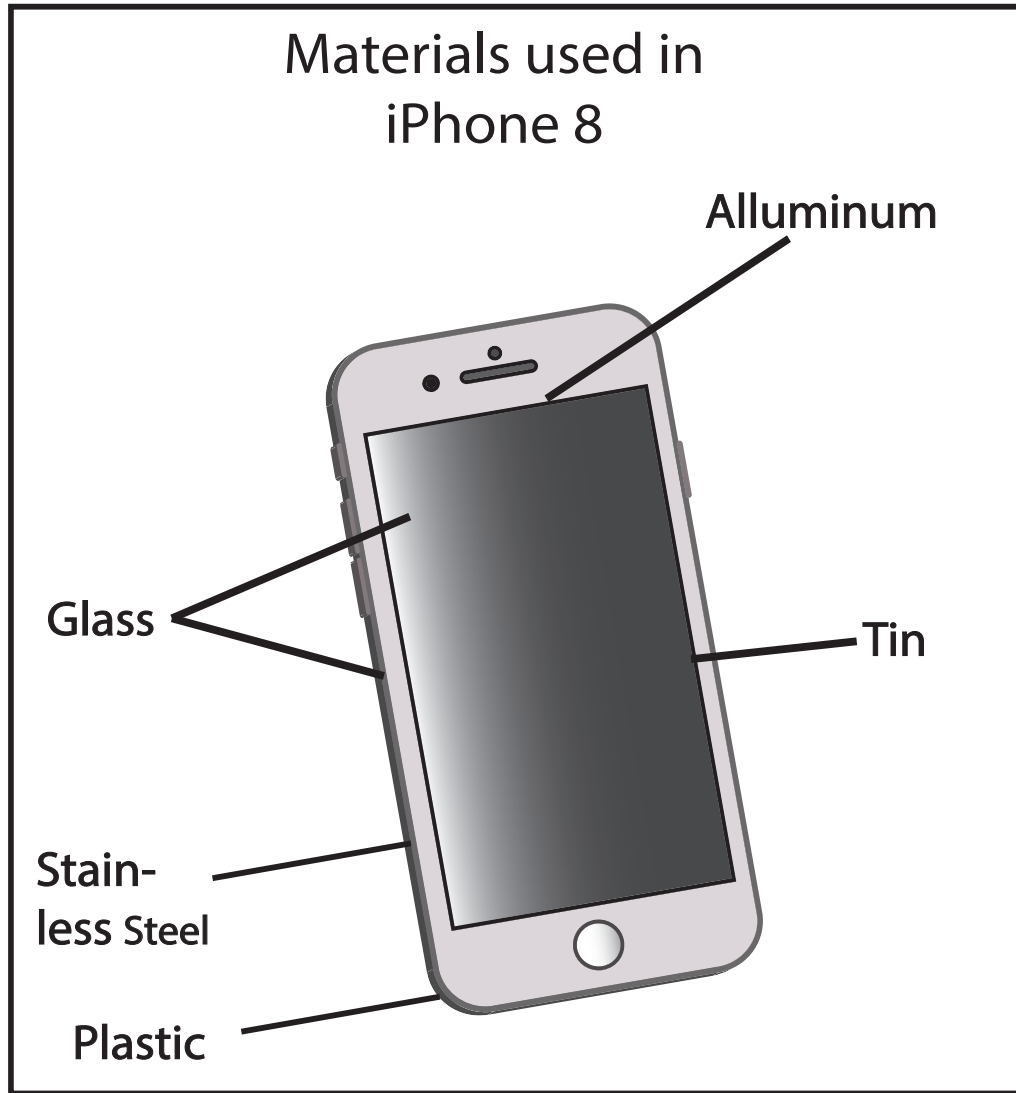


Figure 4

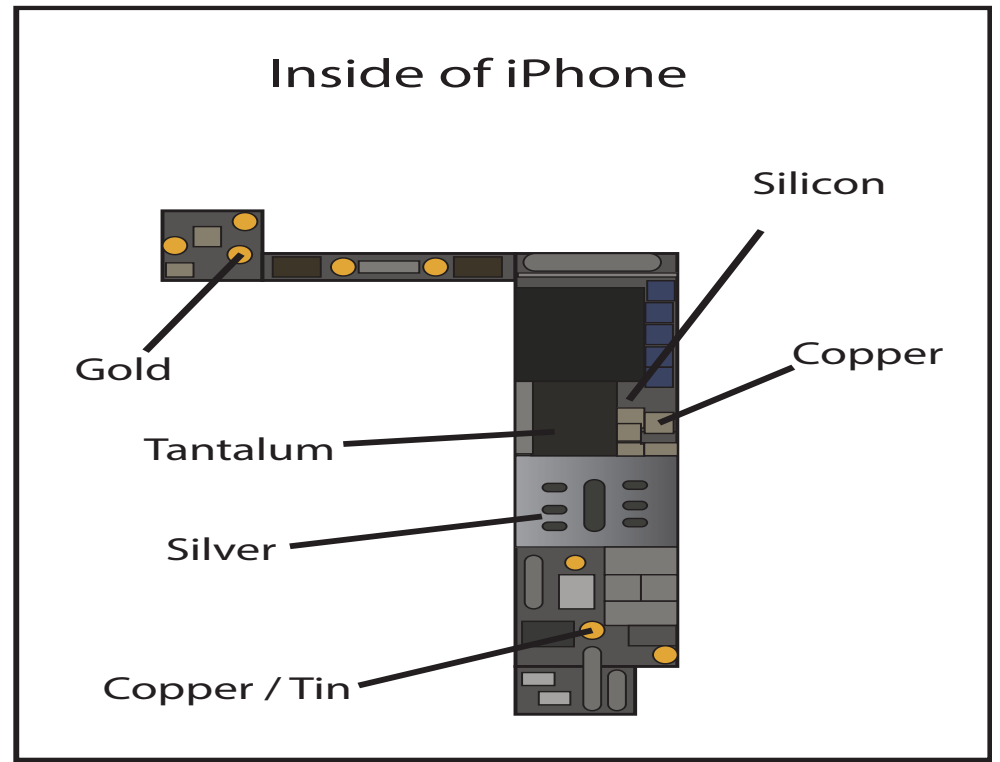


Figure 5

