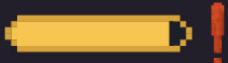
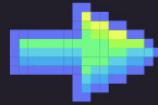




With **21 gaming companies pledging to reduce their carbon footprint by more than 30 million tonnes by 2030** through greener features and offset emissions, Console Carbon Footprint reveals why reducing plastic packaging is crucial to combatting climate change...

GLOBAL PLASTIC WASTE


91% of the 8.3 billion metric tonnes of plastic that has ever been produced isn't recycled




If current trends continue, there will be 12 billion metric tonnes of plastic in landfills by 2050

PHYSICAL VS DIGITAL

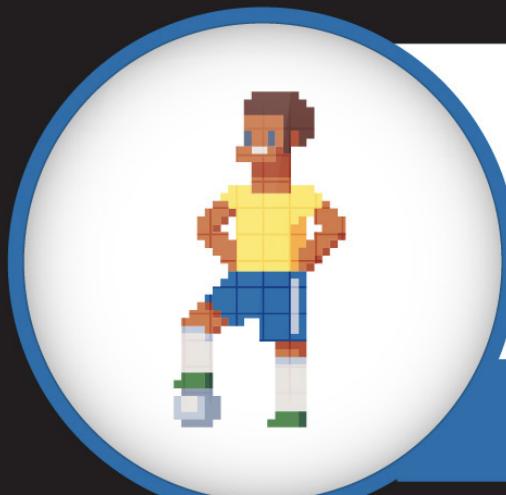
When looking at the materials used to produce physical games and the electricity used for digital downloads, it reveals

that physical copies emit more than 23 times the CO2 of downloads.

	MATERIALS	WEIGHT	CO2E FOOTPRINT KG	
PHYSICAL GAME	DISC	ALUMINIUM POLYCARBONATE	15G 0.11	
	PLASTIC CASE	POLYPROPYLENE POLYETHYLENE	53G 0.26	
	PRINTED COVER AND LEAFLET	GLOSSY PAPER	5G 0.02	
DIGITAL DOWNLOAD	ELECTRICITY	WATTS 60	KWH 0.06	CO2E FOOTPRINT KG 0.017
				
				
				

POPULAR GAME EMISSIONS

Looking at the most popular game titles over the last year reveals **FIFA 19** is responsible for **912,581kg of CO2**, based on physical sales and digital downloads.



FIFA 19

NO. OF PHYSICAL UNITS SOLD
1,889,401

NO. OF DIGITAL DOWNLOADS
9,224,723

TOTAL CO2 EMISSIONS FOOTPRINT KG

912,581

RED DEAD REDEMPTION 2

NO. OF PHYSICAL UNITS SOLD

1,757,212

NO. OF DIGITAL DOWNLOADS

8,579,329



TOTAL CO₂ EMISSIONS FOOTPRINT KG

848,733

CALL OF DUTY: OPS 4

NO. OF PHYSICAL UNITS SOLD

1,172,855

NO. OF DIGITAL DOWNLOADS

5,726,292



TOTAL CO₂ EMISSIONS FOOTPRINT KG

566,489

MARVEL'S SPIDER-MAN

NO. OF PHYSICAL UNITS SOLD

676,621

NO. OF DIGITAL DOWNLOADS

3,303,503



TOTAL CO₂ EMISSIONS FOOTPRINT KG

326,808

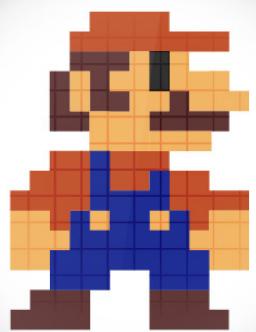
MARIO KART 8 DELUXE

NO. OF PHYSICAL UNITS SOLD

458,675

NO. OF DIGITAL DOWNLOADS

2,239,413



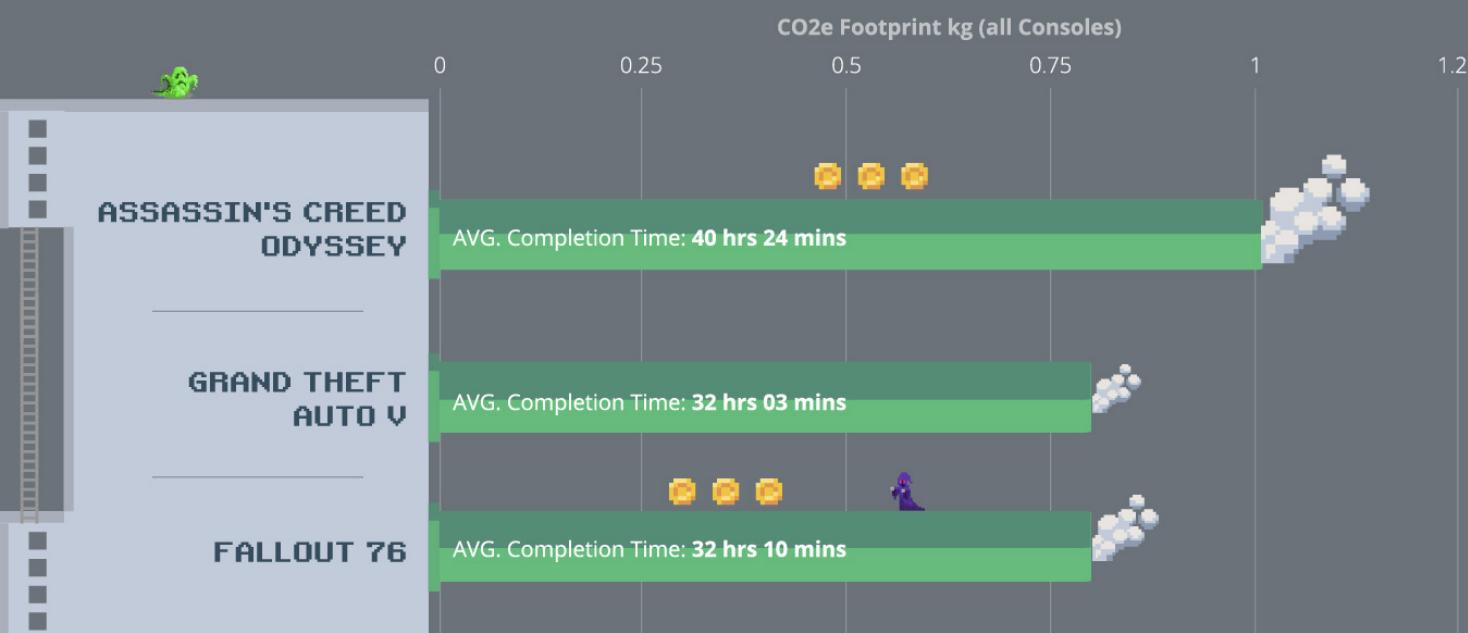
TOTAL CO₂ EMISSIONS FOOTPRINT KG

221,540



PLAYING TIME

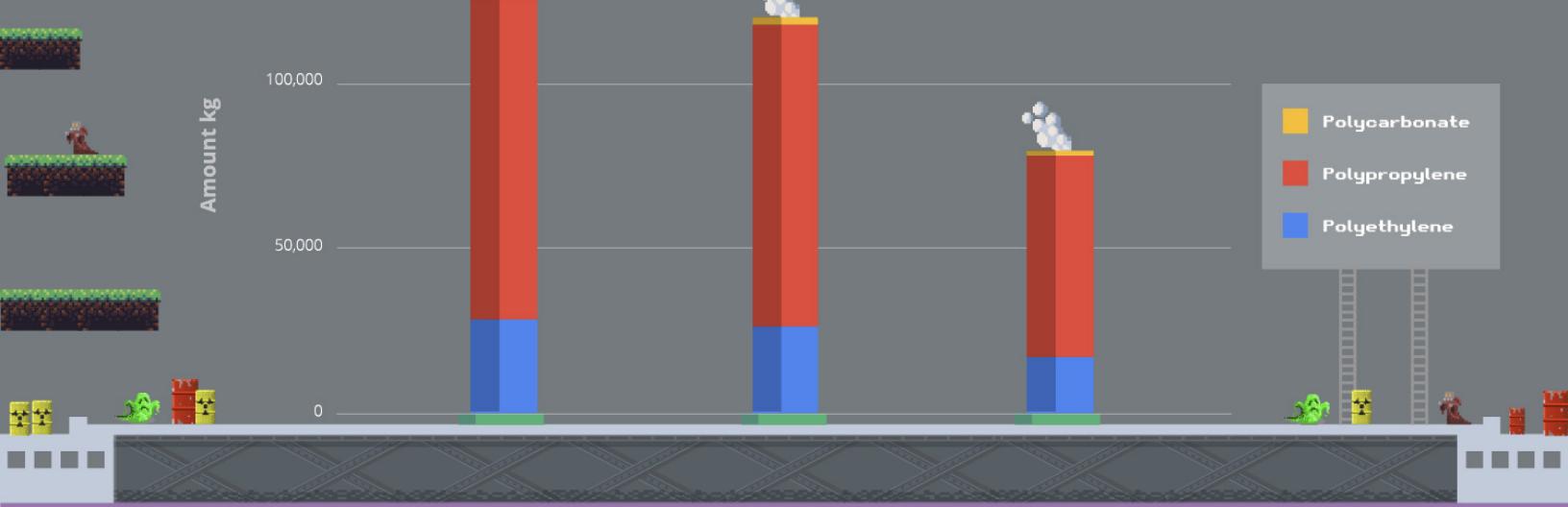
Comparing the average completion time of popular games against their CO2 Emissions footprint reveals that **Assassin's Creed Odyssey** is the most environmentally damaging game to complete.



PLASTIC WASTE

Measuring game sales against the packaging used reveals that **128,479kg of plastic could go to landfill if FIFA 19 players threw their old games away** when buying FIFA 20.

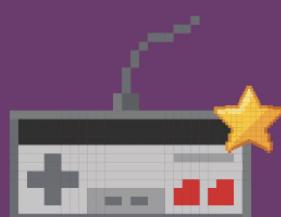
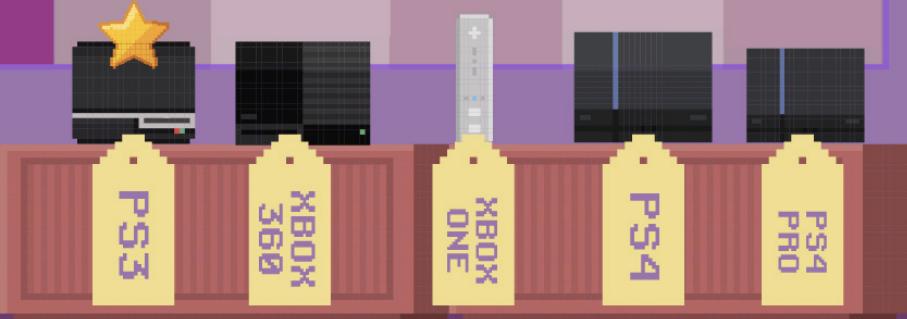




CONSOLE COMPARISON

Based on the CO₂ emissions resulting from power usage, the **PS3 Original** is the least eco-friendly console.

Average Power Usage (Watts)	190	180	122.5	120	117.5
kWh	0.19	0.18	0.1225	0.12	0.1175
CO ₂ e kg per hour	0.054	0.051	0.035	0.034	0.033



Nintendo consoles are the most environmentally friendly, with average



Xbox consoles are the worst for the environment, with average emissions of 0.031kg p/h.

emissions of 0.008kg p/h.

UPCOMING RELEASES

A substantial portion of consoles' energy use is determined by graphics processing.

Based on that alone, the **PS5 could be the eco-friendliest PlayStation since the Classic.**



PS5

1.5x performance-per-watt compared to earlier Graphic Processing Units (GPUs)
**Estimated CO₂ Emissions per hour
0.022KG**



XBOX SERIES X

Graphic Processing Unit (GPU) will be double that of the Xbox One X
**Estimated CO₂ Emissions per hour
0.07KG**



Note: Digital download figures based on 83% of all video game sales being digital in 2018.

Sources: Data gathered from a range of sources, including the energy use calculator, Forbes and National Geographic.

Console Carbon Footprint was conducted by **online slots** specialists Slots Online Canada and used a number of sources such as National Geographic, Huffington Post and The Energy Saving Trust to conduct the research.

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