



We have quoted a lot of different research in episode six of Which? investigates so if you want to do any more reading here are the links to all the articles we came across while doing our investigation.

Boeing's 747 manual tells me a single jumbo jet carries 240,000 litres of jet fuel, and burns through it at a whopping rate of 4 litres every second

http://www.boeing.com/commercial/aeromagazine/aero_21/747ER.pdf

And I know that doing that produces, not just loads of carbon dioxide, but also nitrogen oxides that can break down into ozone, contributing to global warming and plenty of other climate impacts too

<https://www.ccacoalition.org/en/slcps/tropospheric-ozone>

I'll have flygskam - a Swedish term I recently read that translates to "flight shame"

<https://www.nomadicmatt.com/travel-blogs/flight-shaming-flying-environment/>

One of the studies I was reading for this episode - a 2018 article in Nature Climate Change entitled 'The carbon footprint of global tourism' - suggests that travel is responsible for around 8% of the world's carbon emissions.

<https://www.nature.com/articles/s41558-018-0141-x>

At the top of the list of the biggest producers of CO2 from flights is the US, Followed by China, Ireland, India, and the UK.

<https://sustainabletravel.org/issues/carbon-footprint-tourism/>

Budget airlines tend to have newer planes

<https://www.theperspective.com/debates/businessandtechnology/fly-low-cost-traditional-airlines/#:~:text=Newer%2C%20Safer%20Planes,made%20each%20plane%20so%20cheap.>

Indeed a 2017 study by the European Commission found that 85% of offset projects under the Kyoto Protocol's Clean Development Mechanism (CDM) had failed to reduce emissions.

https://ec.europa.eu/clima/sites/clima/files/ets/docs/clean_dev_mechanism_en.pdf

Last year Ryan Air did increase that voluntary carbon offset contribution from €1 to €2.

<https://corporate.ryanair.com/news/ryanair-continues-to-promote-sustainability-voluntary-carbon-offset-to-increase-from-e1-to-e2-from-april/>



Oh and for Ryanair this contribution doesn't necessarily go towards planting trees... a couple of years ago one of the projects that the carbon offsetting donations went towards was a whale and dolphin research group

<https://corporate.ryanair.com/news/from-the-sky-to-the-sea-ryanair-supports-iwdgs-latest-whaletrack-project/>

I read a recent working paper from the international council on clean transportation... they estimate that by the end of the decade, 2030, there'll be the resources & industry set-up to produce enough Sustainable Aviation Fuel to supply just over ... 5% ... of EU jet fuel demand

<https://theicct.org/publications/sustainable-aviation-fuel-feedstock-eu-mar2021>

Azul Airlines in Brazil did announce a test flight of a plane using this sugarcane based renewable fuel way back in 2012 and we've seen few additional developments in Brazil since then

<https://www.geaviation.com/press-release/other-news-information/azul-brazilian-airlines-makes-demonstration-flight-renewable>

Just before pressing UPLOAD on this episode we did hear more from the UK government on their 'Transport Decarbonisation Plan'. They've announced that new green taxes on motoring and flying are likely to be introduced, with the plan promising to reconsider carbon prices to QUOTE "help accelerate" the move to green fuels.

https://www.telegraph.co.uk/environment/2021/07/14/cars-flights-hit-green-taxes/?WT.mc_id=e_DM1461434&WT.tsrc=email&etype=Edi_FAM_New_ES&utm_source=email&utm_medium=Edi_FAM_New_ES20210715&utm_campaign=DM1461434

I read in a New York Times piece on the impact of covid on travel destinations... That said that because many governments pay for conservation and enforcement through fees associated with tourism, as tourism dried up during the pandemic, that revenue did too

<https://www.nytimes.com/2021/03/07/travel/covid-pandemic-environmental-impact.html>

In 2019 Prince Harry co-founded Travalyst, a non-profit organisation that say they're working to identify - and help bring about - the systemic changes needed in order for sustainable travel to be taken out of the niche, and into the mainstream. In their annual report Harry says that post-pandemic travel offers QUOTE "an opportunity to do things differently, to do things better".

<https://mk0travalyst7i961fjw.kinstacdn.com/wp-content/uploads/2021/01/The-Re-emergence-of-Travel-Report-A-Travalyst-View.pdf>

In 2018 Germany's Nature And Biodiversity Conservation Union surveyed 77 cruise ships and found that all but one used something called Heavy Fuel Oil, something the group described as the "dirtiest of all fuels".

<https://www.independent.co.uk/climate-change/news/cruise-ships-air-pollution-dirty-fuel-heavy-oil-europe-ports-nabu-a8502771.html>

80% of the food consumed by the tourism industry in the Pacific Islands is brought in from overseas.

<https://sustainabletravel.org/issues/carbon-footprint-tourism/#:~:text=It%20is%20estimated%20that%20up,travel%20a%20very%20long%20way.>