

Executive Summary

Since winning the general election on 04 July 2024 the Labour Government has announced two UK airport expansions, the development of Sustainable Aviation Fuels (SAF), launched a consultation into creating airspace modernisation and HM Treasury has launched a consultation on Reform of Air Passenger Duty for private jets.

Airport expansion to boost the UK's economy is based on overturning local authority planning processes with little regard to advice from the Government's own expert adviser, the Climate Change Committee.

The UK Government is silent on the European Commission holding to account airlines potentially engaging in Voluntary Carbon Offsetting (VCO) greenwashing who use, or will use, the UK's 50 regional airports.

This policy brief assesses next steps to restore trust and collaboration:

- Review the planning regime towards a UK-wide airport capacity management framework.
- Collaborate with the aviation industry to frame VCO regulations and anti-greenwashing mitigation.
- Pro-actively address behaviours of UK flying public.

Introduction

In 1960, 100 million passengers travelled by air. By 2019, the total annual world-wide passenger 'hypermobility' count was 4.56 billion EESI (2022).

Over the next 20 years, IATA estimates that world passengers will increase by 3.8% per year on average with over 4 billion additional passenger journeys in 2043 compared to 2023. Asia Pacific will contribute over 50% net increase in global passenger numbers by 2043. IATA (2024).

Research by Transport & Environment (T&E) indicates that some UK airlines are polluting more as emissions approach pre-pandemic levels. Nearly 940,000 flights departed from UK airports in 2023, producing 32 Mt of CO2 emissions. Compared to 2022, the number of flights increased by 16% and emissions rose by 23%. Transport & Environment (2024).

Government, industry and the flying public all have roles to play to uphold the 'Net-Zero Carbon Emissions by 2050' ambitions of IATA's 330 member airlines. IATA (2021).

Recommendations

- DfT develop a UK-wide capacity management framework with Welsh, Scottish and Northern Irish Governments and MHCLG.
- DfT, DESNZ, Climate Change Committee, Sustainable Aviation to work on measures by industry and Government on UK aviation emission levels to 2050.
- DfT, DfB&T to engage with aviation industry on VCO regulation. Watching brief EU greenwashing outcomes.
- CAA Consumer panel establish an inter-government/ industry taskforce to develop a carbon reductions communications platform with NGO and citizen stakeholders.

Towards a UK-wide capacity management framework

"Cannot believe any government would want to increase aviation – the carbon footprint of an expanded Stansted will be enormous – followed but that of the increased air traffic... I am speechless." Marion Hebblethwaite, Airport World (2024) 'UK government welcomes London Stansted's expansion plans', 14 October.

Expansion plans for London City Airport and the £1.1 billion investment in Stansted Airport follow fraught reversals of local authority planning decisions with resistance from community stakeholders. London City Airport Expansion was reported as showing 'false hope' in the Jet Zero Strategy. (Lo. 2024). 'Stansted Airport planning appeal: Inspectors overturn Uttlesford District Council's refusal for passenger growth', *Bishop's Stortford Independent*, 26 May. (Corr. S. 2021).

There is need for sustainable practices in airport terminal production (Xiong et al., 2024) and a need for a diligent review and examination of the UK planning regime and aviation emissions of regional airport development. (Bogojević, 2024).

... the legal duty under section 1 of the Climate Change Act 2008, which, as revised is set to achieve climate neutrality by 2050, falls only on the Secretary of State ...statutory climate law does not require local planning authorities to consider climate impacts when deciding on regional airport development applications. (Bogojević, 2024).

There are wide variations among UK airports in net zero reference, target years and proposed routes to decarbonisation. (Hemmings et al., 2023).

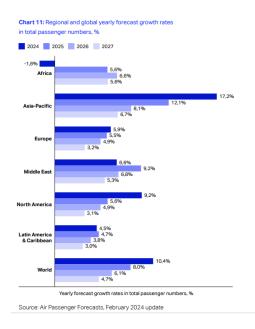


Fig 1: ATA (2024) Global Outlook for Air Transport - Deep Change Regional and global yearly forecast growth rates in total passenger numbers,%

Revisiting Climate Change Committee expertise



"The UK is already substantially off track for 2030, and the Government must resist the temptation to take their foot off the accelerator." Professor Piers Forster, Interim Chair of the Climate Change Committee (2024). Future Emissions targets must not be loosened, CCC 28 February.

UK governments fuel the ideological and fantasmatic narratives of 'technological fixes' and 'sustainable aviation' while defusing persistent opposition to airport expansion (Griggs and Howarth, 2023).

CCC staying on message

The Climate Change Committee (CCC) was established under the Climate Change Act 2008 and advises the UK and devolved

governments on reducing emission and adapting to the impacts of climate change.

- 2024 Climate Change Committee (2024) Progress in reducing emissions 2024 Report to Parliament. Table 4.2 p 87. Priority actions: Stop airport expansion without a UK wide capacity management framework. Available at: https://www.theccc.org.uk/publication/progress-in-reducingemissions-2024-report-to-parliament/
- 2023 Climate Change Committee (2023) Progress in reducing emissions 2023 Report to Parliament p.267: No airport expansions should proceed until a UK-wide capacity management framework is in place to annually assess and, if required, control sector CO₂ emissions and non- CO₂ effects. Available at: https://www.theccc.org.uk/wp-content/uploads/2023/06/Progress-in-reducing-UK-emissions-2023-Report-to-Parliament-1.pdf

Revisiting House of Commons Environmental Audit Committee

The House of Commons Environment Audit Committee (2024) *Net zero* and the UK aviation sector: Government Response to the Committee's Third Report includes two recommendations that this Government may revisit that elicited the response: 'The Government notes this recommendation':

- No. 3: The Government work with the Climate Change Committee and Sustainable Aviation on a comparative analysis of the models underpinning the projections for UK aircraft emissions. p3.
- No. 4: The Government sustain and enhance its engagement with the aviation industry on the delivery of operational to maintain the ambition to secure 2% year-on-year CO2 emissions reductions from fuel and operational efficiencies. p.3.

Greenwashing – who to trust?



Image credit: stay-grounded.org

Greenwashing is an intrinsic element of the neoclassical economics playbook based on human exceptionalism to create economic growth while deflecting from, and capitalising upon, the climate crisis. (Gürçam, 2022), (Clapp and Dauvergne, 2011).

... as states pursue economic growth, environmental conditions—such as air and water quality—may deteriorate as governments and citizens give firms more scope to pursue short-term profits. (Clapp and Dauvergne, 2011).

However, UK based law firm Linklaters in assessing the implications of the 20 March 2024 district court of Amsterdam decision against Dutch flag carrier KLM notes a sea change in corporate boardrooms:

... litigation concerning greenwashing is assuming a more crucial role within the legal landscape. This trend underscores the growing recognition among corporate boardrooms of the importance of environmental authenticity and the potential risks associated with misleading eco-friendly claims. (Strik_et al., 2024).

In April 2024 the European Commission announced it had written to 20 airlines identifying misleading green claims potentially prohibited under Articles 5, 6 and 7 of the Unfair Commercial Practices Directive inviting them to bring their practices in line with EU consumer law within 30 days. European Commission 2024, 'Commission and national consumer protection authorities starts action against 20 airlines for misleading greenwashing practices' (30 April).

The Commission did not name airlines. Reporting online, the European Consumer Organisation BEUC listed 17: Air Baltic, Air Dolomiti, Air France, Austrian, Brussels Airlines, Eurowings, Finnair, KLM, Lufthansa, Norwegian, Ryanair, SAS, SWISS, TAP, Volotea, Vueling, Wizz Air. (Surgenor, C., 2024).

UK law firm, Stevens & Bolton advise that while the UK is not subject to the EU Green Claims Directive, the UK Competition and Markets Authority has imposed a Green Claims Code. Both EU and UK airlines: 'should take steps to critically evaluate any environmental claims they may be making to ensure that they are not misleading'. (Broadhurst N., Barrow., G., 2024).

Following the November 2023 Virgin Atlantic SAF test flight, the Advertising Standards Authority (ASA) upheld a ruling that a Virgin Atlantic radio ad was in breach of BCAP Code rules and that the

unqualified claim "100% sustainable aviation fuel" was misleading. ASA (2024) Rulings 07 August.

A study has interrogated the authenticity, verifiability, and alignment of Voluntary Carbon Offset (VCO) claims made by 18 European airlines (Fabiana Peixoto de and Rosario, 2024). A key finding is:

> insignificance and misalignment of the VCO programs, indicating that these initiatives are implemented without any substantial impact on the airlines' mitigation efforts and are not integrated into their overall strategies. (Fabiana Peixoto de and Rosario, 2024) p 12.

M. Fabiana Peixoto de and M. Rosario

Journal of the Air Transport

Me	easurement compor	nent.
	Airline	

Table 1

Airline	Discloses Emissions	Discloses Methodology	Discloses Results	Greenwashing Engagement Level
Air France	0	8	8	A
KLM	Ø	Proprietary	0	A
Transavia	8	8	8	A
British Airways	Ø	8	8	A
Iberia	0	8	8	A
Vueling	Ø	8	8	A
EasyJet	Ø	Southpole	8	A
Finnair	0	8	8	A
Lufthansa	Ø	Myclimate	8	A
Air Dolomiti	Ø	Myclimate	8	A
Eurowings	0	Myclimate	8	A
Austrian Airlines	0	8	8	A
Norwegian	8	ICAO	8	A
Ryanair	0	8	8	A
SAS	8	8	8	A
TAP	0	ICAO	8	A
Turkish Airlines	0	8	8	A
Wizz Air	0	IATA	8	A

Fig 2: Fabiana Peixoto de, M., Rosario, M., 2024. Assessing the efficacy of EU greenwashing directive: A study of European airlines' voluntary carbon offset programs. J. Air Transp. Res. Soc. 3, 100028. https://doi.org/10.1016/j.jatrs.2024.100028 Page 8

As the Regulator, the UK Civil Aviation Authority (CAA) has set up a consultation to drive accuracy and accessibility in the environmental information consumers receive including standard reporting metrics. CAA (2024) New proposals for environmental information to be available to consumers booking flights. (Consultation on draft principles for aviation consumer environmental information, 2024).

"Providing consumers with accessible, transparent, and accurate environmental information is essential to making more informed travel choices." Tim Johnson, Director of Policy at the UK Civil Aviation



Review regulation of Voluntary Carbon Offsets (VCO) to create market stability and build consumer confidence

Researchers delved into the ways customers face deceptive and obfuscated communications about VCO. (Guix et al., 2022). Findings include airlines provide the moral license to fly by shifting responsibility by framing VCO as 'the' solution for customers to act green.

The VCO market is 'currently plagued by failures that prevent it from reaching its potential' (Battocletti et al., 2023).

Global law firm Norton Rose Fulbright advises: 'CORSIA is no panacea'. It only applies to international flights, is an offset (not cap) and requires airlines to offset emissions over a high threshold baseline. Nor does CORSIA address emissions other than CO2. (Norton Rose Fullbright, 2024).

Corporate appetite for the Carbon Offset Market is volatile. 'More Companies Ditch Junk Carbon Offsets but New Buyers Loom,' *Bloomberg* (2024) reports 24 October. The carbon offset market showed downturns in 2023 connected to renewable-energy projects with little climate benefit.

Consumer behaviour and understanding VCO

'Personal norms, subjective norms, attitudes, and perceived behavioral (sic) control' influence customers' intentions to purchase VCO programs and in that order. (Park et al., 2024).

The tragedy-of-the-commons outlook creates a powerful sense of awaiting others to act first before individual sacrifices are regarded as worthwhile. (Stoll-Kleemann et al., 2001 p 115).

The CAA's Environmental Sustainability Strategy (2022) includes consumer protection. The CAA Environmental Sustainability Panel Meeting minutes of August 2024 record that the UK CAA recognises the Government wants to move forward quickly with sustainability and that consumer protection is key. (CAA 2024 Environmental Sustainability Panel Meeting Minutes 05 August).

Conclusion

The Government may consider: Revisiting recommendations of expert bodies to address a national framework for future airport developments; collaborating with industry on VCO regulation; concentrating on role of CAA consumer protection to facilitate environmental education outreach to millions of individual passengers.

Bibliography

- European Commission (2024) Action against 20 airlines for misleading greenwashing practices. 30 April. Available at: https://ec.europa.eu/commission/presscorner/detail/en/ip_24_2 322 (Accessed: 08 November).
- Aviation Standards Authority (ASA) (2024) Rulings. 07 August. Available at: https://www.asa.org.uk/rulings/virgin-atlantic-airways-ltd-g23-1224417-virgin-atlantic-airways-ltd.html:
- Bloomberg (2024) 'More Companies Ditch Junk Carbon Offsets but New Buyers Loom', 24 October. Available at:
 https://www.bloomberg.com/news/features/2024-10-24/carbon-offsets-see-falling-demand-but-cop29-may-open-new-market
 More Companies Ditch Junk Carbon Offsets but New Buyers Loom.
- Bogojević, S. (2024). 'Squaring the Circle? Regional Airport Expansion, Climate Change and the Planning Regime'. Modern Law Review. Issue 87, pps 967–994. doi: https://doi.org/10.1111/1468-2230.12868.
- Civil Aviation Authority (2024) Environmental Sustainability Panel Meeting Minutes. 05 August. Available at: https://www.caa.co.uk/media/f4wdpaub/caa-esp-minutes-05-august-2024.pdf.
- Civil Aviation Authority (2024) Consumer Environmental Information:

 Consultation on draft principles for aviation consumer
 environmental information. Available at:

 https://consultations.caa.co.uk/policy-development/consumerenvironmental-information-consultation/.

- Civil Aviation Authority (2022) *Environmental Sustainability Strategy*Available at: https://www.caa.co.uk/passengers-and-public/environment/environmental-sustainability-strategy/(Accessed: 11 August).
- Chapman, A. and Postle, M. (2021) *Turbulence expected: The climate cost of airport expansion*, New Economics Foundation. Available at: https://neweconomics.org/uploads/files/NEF_Turbulence_Expect ed.pdf https://neweconomics.org/2021/05/turbulence-expected.
- Climate Change Act (2008) Available at: https://www.legislation.gov.uk/ukpga/2008/27/contents.
- Climate Change Committee (2023) 2023 Progress Report to Parliament.
 Available at: https://www.the ccc.oeg.uk/publication.2023-progress-report-to-parliament/.
- Climate Change Committee (2024), Progress in reducing emissions 2024
 Report to Parliament p 87. Available at:
 https://www.theccc.org.uk/publication/progress-in-reducing-emissions-2024-report-to-parliament/ (Accessed 11 May 24).
- EESI (2022) 'The Growth in Greenhouse Gas Emissions from Commercial Aviation (2019, updated 2022)'. *Issue Brief*. Environmental and Energy Study Institute. Available at: https://www.eesi.org/papers/view/fact-sheet-the-growth-ingreenhouse-gas-emissions-from-commercial-aviation (Accessed 11 October).
- Ghussain, A. A. (2020). 'The biggest problem with carbon offsetting is that it doesn't really work', Greenpeace UK. 26 May. Available at: https://www.greenpeace.org.uk/news/the-biggest-problem-with-carbon-offsetting-is-that-it-doesnt-really-work/ (Accessed 11 August).
- Griggs, S., Howarth, D. (2023) *Problematising the dilemmas of UK airport expansion—puzzles and research strategies*. Contesting Aviation Expansion. Policy Press, pp. 1–20. doi: https://doi.org/10.46692/9781447344292.001
- Hemmings, P., Mulheron, M., Murphy, R.J., Prescott, M., (2023).

 Investigating the robustness of UK airport net zero plans. Journal of Air Transport Management. 113, 102468. doi: https://doi.org/10.1016/j.jairtraman.2023.102468
- IATA (2024) Global Outlook for Air Transport Deep Change. Available at: https://www.iata.org/en/iata-repository/publications/economic-reports/global-outlook-for-air-transport-june-2024-report/.
- IATA (2021) Net-Zero Carbon Emissions by 2050. 04 October. Available at: https://www.iata.org/en/pressroom/pressroom-archive/2021-releases/2021-10-04-03/.
- Lo, J., Climate Home News (2024). 'London airport expansion shows danger of "false hope" Jet Zero strategy'. 23 August. Available at: https://www.climatechangenews.com/2024/08/23/london-

- airport-expansion-spotlights-danger-of-false-hope-jet-zero-strategy/ (Accessed: 11 September).
- Mair, J., (2011). Exploring air travellers' voluntary carbon-offsetting behaviour. Journal of Sustainable Tourism. 19, pps 215–230. doi: https://doi.org/10.1080/09669582.2010.517317.
- Peixoto de Mello, F., and Rosario, M. (2024) Assessing the efficacy of EU greenwashing directive: 'A study of European airlines voluntary carbon offset programs'. Journal of the Air Transport Research Society. Res. Soc. 3, 100028. doi: https://doi.org/10.1016/j.jatrs.2024.100028
- Professor Piers Forster, Interim Chair of the Climate Change Committee (2024) Future Emissions targets must not be loosened, CCC. 28 February. Available at: https://www.theccc.org.uk/2024/02/28/future-emissions-targets-must-not-be-loosened/.
- Stevens & Bolton LLP (2024) 'Addressing greenwashing in the airline industry: The impact of the "green claims" directive 2024'.

 Available at: https://www.stevens-bolton.com/site/insights/articles/addressing-greenwashing-in-the-airline-industry (Accessed: 11 July 24).
- Surgenor, C., 2024. 'European Commission and national consumer authorities accuse 20 airlines of greenwashing'. GreenAir News 14 May. Available at: https://www.greenairnews.com/?p=5672 (Accessed: 11 August).
- Transport & Environment (2024) *Above the clouds: UK aviation trends in 2023* (2024). 19 April. Available at: https://www.transportenvironment.org/uploads/files/2404-2023-UK-Aviation 2024-05-07-101123 plkk.pdf.
- Xiong, S.-H., Xiong, X., Li, G., Pedrycz, W., Deveci, M., Chen, Z.-S., (2024). Green production of airport terminals considering carbon footprint and indoor air quality: A multi-objective optimization perspective. Building and Environment 263, 111859. doi: https://doi.org/10.1016/j.bldenv.2024.111859.

	Option 1	Option 2	Option 3
	Establish a	Collaborate with	Build on consumer
	national	aviation industry to	protection/education role to
	framework for	review Voluntary	CAA
	airport	Carbon Offsets (VCO)	
	expansions	regulation on	
		greenwashing	
Government	Inter-	Financial mechanism	All funding from industry as
budget	governmental	providing revenue	part of CSR
	with Treasury	streams	
Cost to the	Statutory	Establishes regulatory	Increased public awareness
environment	climate law	standards, consistency	with campaigns up to 2050
	does not	across 13 UK airlines	
	require local	and potentially with	
	planning		

	authorities to	IATA's 330 member	
	consider climate	airlines	
	impacts		
Costs to	Good for	Heavy fines for airlines	Help mend damaged brand
aviation	forward	who do not comply	values and reputations
	planning		
Cost to	Potential for	Secondary polluters	Incentive schemes to be
communities	long running	will pay but at what	funded by aviation industry
	campaigns	cost to far flung	
		communities	
Undesirable	Further conflicts	The markets remain	Makes no difference to
side effects	with NGOs/	volatile and concept is	human exceptionalism and
	communities	flawed	entitlement to fly
	UK's 50 airports		

Fig. 3 Potential outcomes