

**Opportunity name: NERC Jet Zero - Aviation's Non-CO2 Impacts on the Climate**

**Meeting Date: 4 April 2024**

Application Reference	Project Title	Research Organisation	Outcome
20794	REVEAL-NOx: Reducing aviation Emissions' uncertain climate impacts: NOx	University of Cambridge	Successful
22325	Modelling Aviation Global climate Impacts from Contrails and Aerosols (MAGICA)	University of Leeds	Successful
23844	Contrail Avoidance Using climate enhanced Cost Index (CONAVOID)	University of Nottingham	Unsuccessful
24179	(AEROSOL): Ammonia for zERO aviation emissionS: Mitigating non-CO2 emissions and understanding their interact with cLimate	Queen Mary University of London	Unsuccessful
24355	cOntrails pRediction by mAchine LEarning (ORACLE)	University of Leeds	Unsuccessful
24454	Quantifying and Reducing aviation Contrail radiative forcing (QR-CODE)	University of Birmingham	Successful
24737	A Systems Approach to Mitigating Non-CO2 Climate Impacts from Algae-based Sustainable Aviation Fuel Production and Utilisation	Brunel University London	Unsuccessful
24797	GRIM-SAF: Ground and Inflight Measurements involving SAF	The University of Manchester	Successful
24873	Quantifying and Minimising Aviation NOx-induced Climate Forcing with Clean Fuels by 2050	University of Edinburgh	Unsuccessful
25236	Climate Responses to Aviation NOx Emissions (CRANE)	University of Reading	Successful
25286	Contrail Observations And Lifecycle Tracking (COBALT)	Imperial College London	Successful
25569	Contrail assessment of future aircraft and propulsion architectures	University of Southampton	Successful
26915	AFTERBURN: Assessment of Future Technology and Emissions Regulations with a Better Understanding of the Response to NOx	Imperial College London	Unsuccessful
27076	The impacts of fuel type and propulsion technologies on near-field non-CO2 emissions	Imperial College London	Unsuccessful
28269	CAPTIVATE: Contrail Avoidance Phase Two Investigation to Validate and And Test Effectiveness	University of Cambridge	Unsuccessful
28586	Metrics for Aviation non-CO2 emissions and Policy Levers (MAPLE)	Manchester Metropolitan University	Successful
28722	The effect of transitioning to sustainable aviation fuels on contrails and climate (SAFice)	University of Leeds	Successful

28842	Bounding Uncertainty in Contrails for SAFs, Hydrogen and Sulphur: From PM Chemistry, Morphology and Concentration to Global Contrail Warming	University of Cambridge	Unsuccessful
28953	Contrails from SAF and H2 combustion; from lab experiments to global mitigation policy	Imperial College London	Successful
29407	Model investigations on ways to reduce aviation non-CO2 climate impact (MITIGATE)	University of Bristol	Unsuccessful