

Tailored environmental solutions based on broad expertise

NATS Services has a wide range of environmental experience spanning all areas of air traffic management. We first gain an in-depth understanding of your challenges before creating the right solution for your present and future environmental needs.

We can provide tailored solutions for both individual parts of an airport operation or for an entire ATM system. These solutions will enable you to quantify how your operation impacts on the environment, where the greatest improvements can be made and how to implement changes which will realise the maximum benefits.

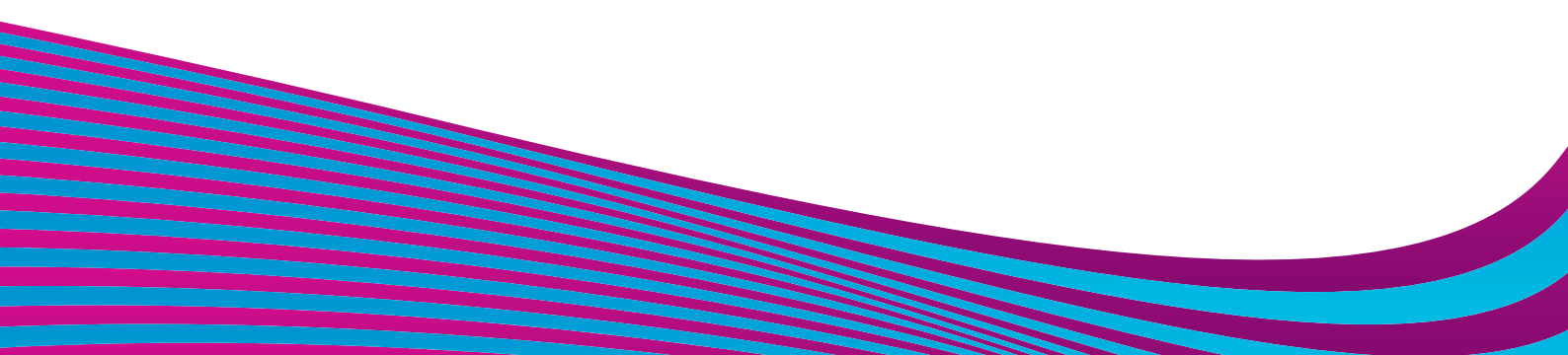
Our expertise encompasses operational and procedure optimisation, culture change, CO2 baselining and efficiency strategies. We bring a practical, results-driven approach that focuses on how you can deliver savings in your operational environment.

A trusted partner delivering tangible results

One way in which we can help airport operators to improve their environmental performance is by redesigning airspace and procedures to enable controllers to maximise the number of aircraft utilising continuous descent approaches (CDA). High levels of CDAs are employed at Heathrow and Gatwick airports, saving in the region of 200kg of fuel per flight, or 600kg of CO2.

A wide range of capabilities:

- Airport and related infrastructure CO2 assessments
- CO2 baselining for regions, countries, or individual airspace or airport operations
- Individual airline/airspace efficiency analysis
- Airspace and procedure efficiency measurements
- Procedure and airspace optimisation for 4D trajectories
- Noise assessment and tracking
- Embedding of environmental strategies within ANSP's
- Airspace change environmental impact assessments
- Environmental awareness training for all stakeholders
- CDA training and efficiency measurement

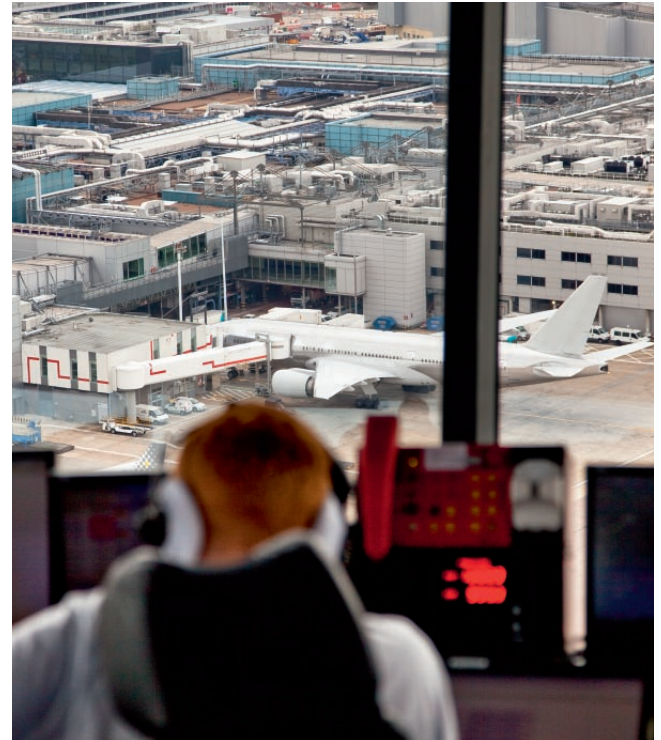


We're also trialling the benefit of 'flight plannable' direct routes through the use of a Route Availability Document. If airlines know in advance that they will get a direct route, then they can reduce their fuel uplift. Results on the trialled route indicate that the route mileage reduction saved airlines 8 tonnes of fuel; extrapolated across a year this would amount to 2,920 tonnes fuel saved and 9,125 tonnes CO₂.

Meanwhile, work we're conducting on arrivals speed profiles enables certain aircraft to fly 'clean' with gear up for longer than previously. Trials at Gatwick and Stansted have delivered fuel savings of 3kg per arrival and CO₂ savings of around 9.42kg on aircraft such as the B737. Improved high level descent profiles for oceanic traffic into Manchester could deliver overall savings of 8,000 to 15,000 tonnes of CO₂ per annum.

Delivering benefits

NATS Services will gain a thorough understanding of the issues you face and your unique requirements before offering a bespoke solution. We'll then draw upon environmental expertise from across the NATS Group in order to deliver quantifiable results that will directly benefit you and your customers. NATS Services can help you deliver significant fuel savings to airlines within entire ATM systems or in individual airspace and route structures by taking a collaborative approach to working with airlines, ANSPs and airports



For more information on how NATS Services can help with environmental projects, please contact:

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