



Newcastle International
Your Airport



NET ZERO 
CARBON
2035

Foreword

"De-carbonising the Airport before 2035 will be a challenge, but this is something that we feel strongly about.

"Newcastle International Airport is the region's international gateway, promoting connectivity that is critical to the success of the North East. It is also part of a community and we are committed to doing all we can to achieve our goals for the local residents.

"The people of the North East are at the heart of everything we do, so it is vital that we make the further changes needed to be able to continue to grow the Airport in a sustainable manner.

"I hope you will support us on our journey to a Net Zero 2035."



Nick Jones
Chief Executive
Newcastle International Airport



Setting the Scene

For the North East to grow, the Airport will need to grow and provide more flights to new destinations.

We recognise the contribution aviation makes to carbon emissions and understand our responsibility to become a Net Zero Carbon Airport by 2035. This commitment is being made as part of ACI EUROPE (the trade association for the European airport industry) announcing a resolution formally committing the industry to achieve net zero by 2050, at the latest.

We have been tracking and reducing our carbon emissions for several years but we now want to make clear our ambitious commitments to addressing this growing issue, in line with wider regional and national commitments. A bold target has been set to achieve net zero by 2035, aligned with the end date of the Masterplan and the Airport's centenary year.

In order to achieve this goal we have calculated our current carbon footprint and identified measures to both reduce and offset carbon emissions. This strategy sets out the key interventions we will take to achieve the goal.



Carbon Emissions Overview

Carbon Emissions Overview

As Newcastle International Airport begins 2020, its carbon footprint includes the following emissions:

Scope 1 and 2

Emissions that the Airport controls:

Activity	tCO ₂ e*
Heating and Fuel Use	2,049
Electricity	3,662

Scope 3

Emissions that the Airport has the most influence over:

Activity	tCO ₂ e*
Staff Commuting	464
Passenger Surface Transport Access	21,723
Sold Fuels	1,279
Waste Processing	31

Scope 3

Emissions that the Airport has limited influence over:

Activity	tCO ₂ e*
Aircraft Landing and Take-off (LTO) Cycle Up to 3,000 ft	51,685

*Tonnes of carbon dioxide equivalent



Our 2035 Goals



Scope 1 and 2 Emissions

Our goal is to be a Net Zero carbon airport by 2035.

Emissions that the Airport controls:

What does this include?

- Heating and Fuel Use (Scope 1)
- Electricity (Scope 2)

What does this mean?

This means that we will not generate any carbon from energy used to run the ground-based infrastructure within our direct control, such as vehicles for passengers, terminal operations and the general running of the buildings.

How will we achieve this?

We will be driving energy efficiency actions, purchasing electric vehicles, as well as generating and procuring zero carbon energy for buildings and vehicles. In 2020, we will also seek to join the ACI Europe Airport Carbon Accreditation Scheme.



Scope 3 Emissions

Our goal is to be carbon neutral for passengers journeys to and from the Airport 2035.

Emissions that the Airport has the most influence over:

What does this include?

- Staff Commuting
- Passenger Surface Transport Access
- Sold Fuels
- Waste Processing

What does this mean?

We will take responsibility for Scope 3 emissions that we have the most influence over by reducing and off-setting the residual emissions. A goal has been set to be carbon neutral for passenger journeys to and from the airport by 2035.

How will we achieve this?

The Airport Surface Access Strategy sets out a clear plan to improve the efficiency of travel on existing and future infrastructure, in particular embracing innovative technology to allow for 'smart' travel planning. We will continue to work with local partners, including metro and bus operators to improve transport provision to suit our customer needs.

In addition, a significant programme of broad-leaf tree planting will be implemented on site to achieve carbon neutrality. Trees sequester carbon directly from the atmosphere and will help offset emissions from ourselves and our passengers.





Scope 3 Emissions

Emissions that the Airport has limited influence over:

What does this include?

- Aircraft Landing and Take-off (LTO) Cycle – Up to 3,000 ft

What does this mean?

Emissions from flights account for a major component of our Scope 3 emissions and whilst we have less influence over these, we must take action to help airlines to reduce carbon emissions from flights.

How will we achieve this?

We will continue to work with our airlines to encourage the use of the latest, most efficient aircraft. The A320 NEO operates regularly out of the Airport and delivers a 15% saving in CO2 emissions. We also support 'Sustainable Aviation', which is a collective approach of UK aviation to tackle the challenge of ensuring a cleaner, quieter, smarter future for our industry. Sustainable Aviation brings together major UK airlines, airports, manufacturers, air navigation service providers and key business partners.

On the airfield we will increase the number of Fixed Electrical Ground Power (FEGP) units and allow aircraft to reduce their emissions by drawing electricity from a 100% renewable supply.

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Our Path to Net Zero

Our Path to Net Zero



Energy Efficiency

We will continue our programme of retrofitting energy efficient technologies to help drive down energy usage across the airport. Any new development will include energy efficient measures.



EV Charging Point Provision

We will install EV charging points in new car park infrastructure and explore opportunities to retrofit into our existing car parks.



Switch to Electric Fleet

We will transition our ground vehicle fleet (including buses and air-side support vehicles) to full plug in electric vehicles.



Tree Planting

We have already planted thousands of trees and will explore opportunities for further woodland planting.



Public Transport Access

We will work with local partners to develop better public transport provision to suit our customers needs and encourage greater use of local services for transport to and from the Airport.



Green Energy Contracts

We will procure 100% green electricity and green gas backed up by Guarantees of Origin, to reduce our Scope 1 & 2 emissions and provide renewable electricity.



Zero Carbon Heating

We will consider transitioning from natural gas heating systems to air/ground source heat pumps powered by renewable electricity. This would enable us to heat our buildings and water with zero carbon emissions.



Solar Energy Generation

We will investigate the opportunity to invest in on-site renewable energy, including solar.

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