



BELFAST CITY AIRPORT

NET ZERO ROADMAP

INTRODUCTION



Belfast City Airport provides fast, efficient connectivity to and from the heart of Belfast, enabling our community to thrive and our economy to realise its ambitions. At Belfast City Airport, our purpose is to be the heartbeat of connectivity, linking our community with people, places, and possibilities.

We exist to facilitate seamless travel experiences, enable economic growth, nurture our employees in an inclusive workspace and enrich the community we serve, with a commitment to sustainability and responsible business.

We recognise the contribution we make to Greenhouse Gas (GHG) emissions and we take seriously our responsibility to reduce these emissions as far as possible.

We have been working to reduce our carbon emissions for a number of years, measuring and reporting our carbon footprint since 2017 and participating in the ACI's Airport Carbon Accreditation (ACA) programme since 2019 – currently we are accredited at Level 3 'Optimisation'.¹

Belfast City Airport is signatory to ACI Europe's Net Zero 2050 Commitment.

This document sets out key actions we plan to take in order to achieve our Net Zero ambitions.

Our Commitment

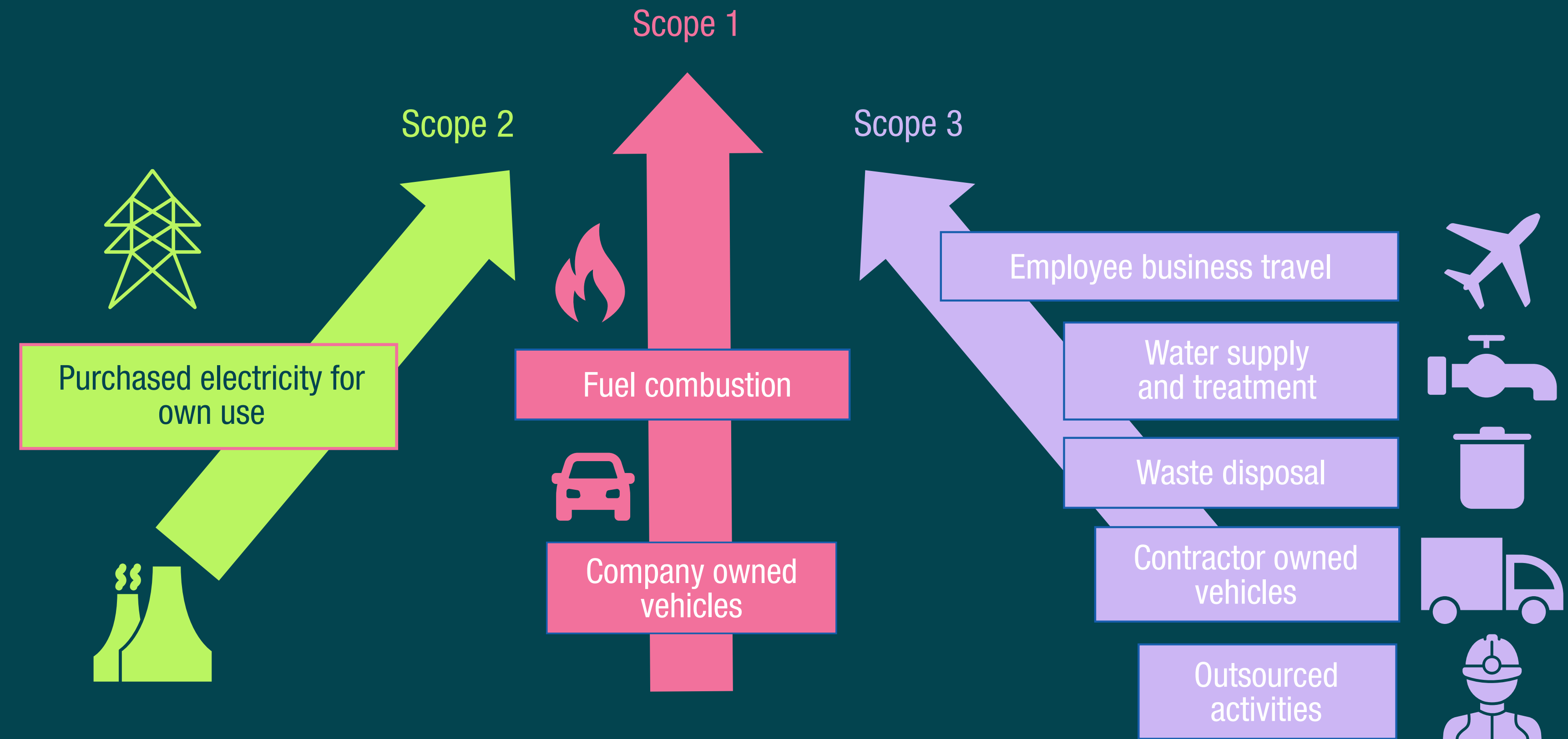
Achieving Net Zero by 2050 at the latest for those emissions under our direct control (Scope 1 and 2).

BACKGROUND

Carbon Emissions

A company's GHG emissions can be considered to fall into three 'Scopes'.

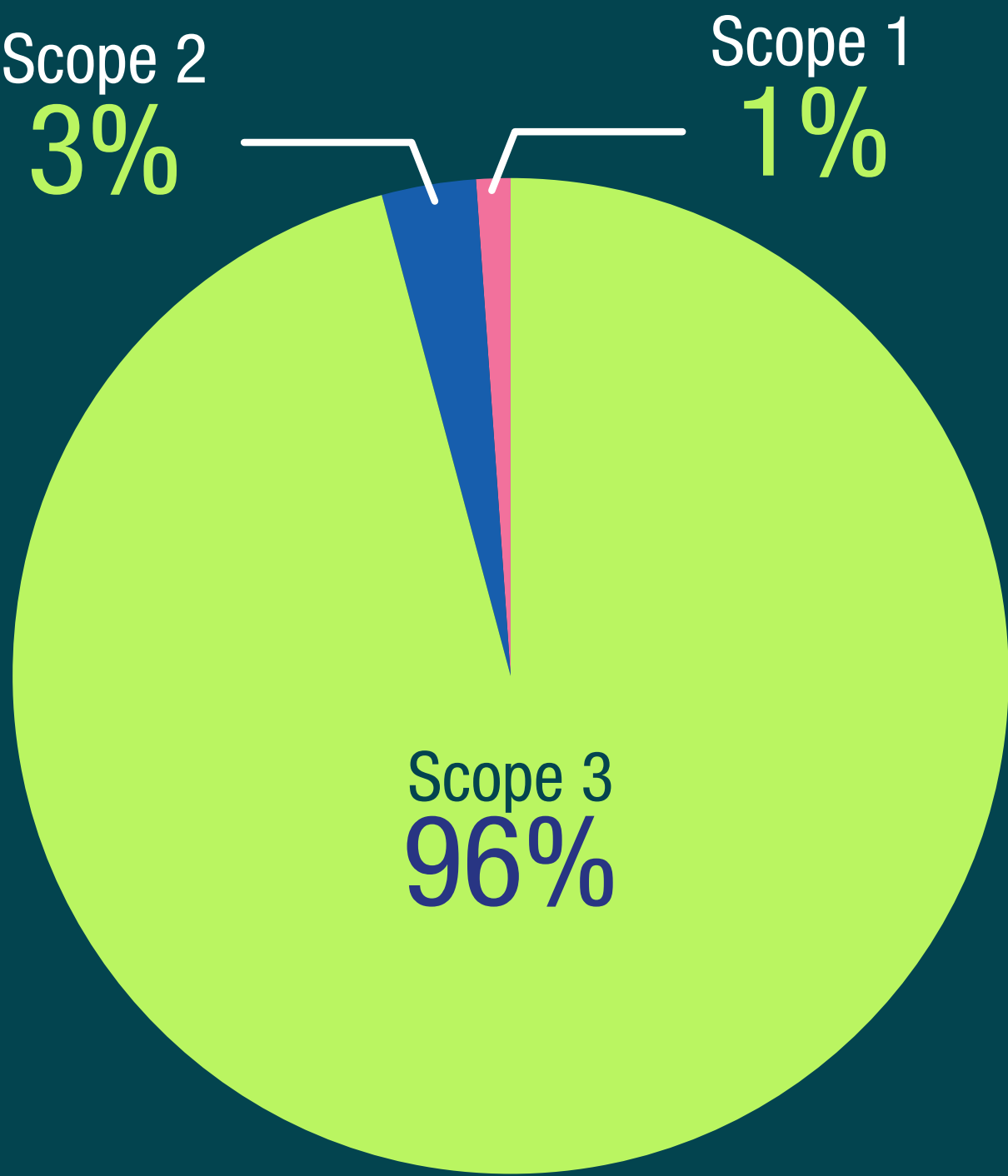
- Scope 1 - direct emissions from company-controlled sources;
- Scope 2 - indirect emissions from the generation of purchased energy; and
- Scope 3 - indirect emissions that occur in the value chain of the company



AIRPORT EMISSIONS

An Airport’s emissions can generally be divided into each Scope as follows:

Scope 1 (Direct) GHG Emissions	Scope 2 (Indirect) GHG Emissions	Scope 3 (Other Indirect) GHG Emissions
<ul style="list-style-type: none">• Belfast City Airport Natural Gas• Belfast City Airport Vehicles• Fire Training (LPG)• Refrigerants	<ul style="list-style-type: none">• Grid Electricity	<ul style="list-style-type: none">• Aircraft Landing and Take-off Cycle (LTO) And Engine Testing• Passenger Surface Access• Staff Surface Access• Tenant Electricity• Tenant Natural Gas• Third-Party Vehicles• Waste Disposal• Business Travel• Water Supply And Treatment



At Belfast City Airport, Scope 1 and 2 emissions represent around 1% and 3% respectively, whilst Scope 3 emissions represent around 96% with the majority of these arising from aircraft operations at or close to the Airport and travel to and from the Airport by passengers and staff.

WHERE ARE WE NOW?

In recent years, through a range of initiatives, including installation of energy-efficient equipment and improved operating practices, we have worked to reduce our emissions.

Since 2019 we have reduced our Scope 1 and 2 emissions by 37%.

Total Scopes 1-2 (Tonnes CO2e) Location-Based ²	2019	2020	2021	2022	2023	2024
	1,812	1,337	1,259	1,310	1,024	1,129

In 2024 our Scope 1 and 2 emissions (location-based) totalled 1,129 TC02e, broken down as follows:

Activity	TC02e
Our Vehicles	31.6
Fire Service Training	6.13
Electricity	763.98
Gas	327.29
Refrigerants	0.46

Our principal Scope 3 emissions were as follows:

Activity	TC02e
Aircraft LTO; Engine Testing	14,035
Passenger And Staff Travel To And From The Airport	10,224
Third Party Energy And Transport	404



² Location-based emissions are based on the average emission intensity of the local grid where the power is sourced (as opposed to market-based emissions which take into account factors such as green tariffs).

WHAT ACTIONS HAVE WE TAKEN?

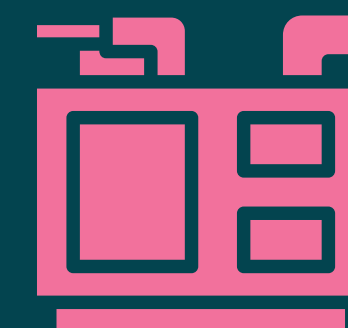
Below are just some of the actions we have taken to improve energy consumption and reduce GHG emissions across the Airport.



Fixed electrical ground power at all aircraft stands



Low energy LED lighting across site



Installation of low energy plant



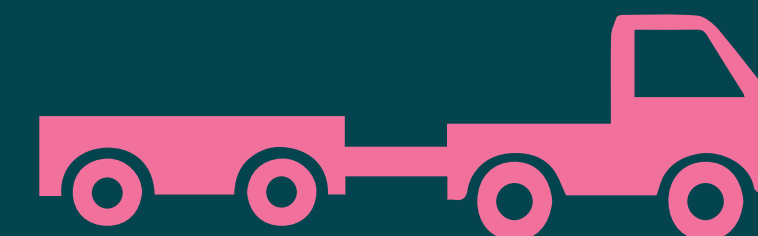
Environmental rebate for new generation aircraft



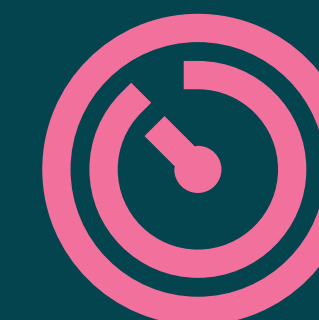
Provision of passenger Electric Vehicle (EV) charging



Continuous descent/climb operations



Use of electric vehicles airside and introduction of Hydro-treated vegetable oil (HVO) for all others



Installation of smart energy monitoring and targeting goals

OUR COMMITMENT

We are committed to achieving Net Zero for those emissions under our direct control (ie. our Scope 1 and 2 emissions) by 2050, with ambition to achieve this sooner.

In addition, we recognise the available opportunity to impact our Scope 3 emissions. Whilst these emissions

are outside our direct control, we are committed to, firstly, measuring our Scope 3 emissions and secondly, working to reduce Scope 3 emissions where possible, through proactive engagement with and ongoing support for our stakeholders.

Our Science-based Target

Belfast City Airport has set a near term emissions reduction target which has been validated by the [Science Based Targets initiative \(SBTi\)](#).

The SBTi defines and promotes best practice in science-based target setting and independently assesses companies' targets. Partner organisations who facilitated SBTi's growth and development are Carbon Disclosure Project (CDP), the United Nations Global Compact, the We Mean Business Coalition, the World Resources Institute (WRI), and the World Wide Fund for Nature (WWF).

Targets are considered 'science-based' if they are in line with what the latest climate science deems necessary to meet the goals of the Paris Agreement – limiting global warming to 1.5°C above pre-industrial levels.

Our target: Belfast City Airport commits to reduce Scope 1 and Scope 2 GHG emissions 42% by 2030 from a 2022 base year, and to measure and reduce its Scope 3 emissions.
([See Companies taking action - Science Based Targets Initiative.](#))

HOW WILL WE GET THERE?

Scope 1 and 2 Emissions



Energy demand reduction

Reducing energy demand across the Airport will be critical to our efforts. We have already achieved reductions by installing energy management systems, retrofitting LED lighting across the site and replacing equipment with high-efficiency alternatives. We will continue this programme through further improvements to Heating, Ventilation, and Air Conditioning (HVAC) efficiency and extending our smart energy monitoring and targeting systems.



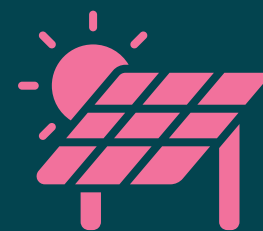
Removal of gas

Removing natural gas as a source of energy (primarily used to heat the main terminal building) would result in an estimated 80% reduction in our Scope 1 emissions. We are exploring opportunities to remove our current reliance on gas.



Emissions

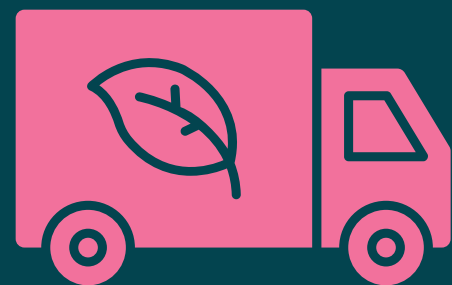
On the airfield, all our diesel vehicles have moved to HVO leading to a significant reduction in GHG emissions. Much of our ground handling equipment is already electric and with further changes to electric equipment under way.



Generation

We have purchased 100% green electricity since 2013, however we recognise the value of on site renewable generation in reducing emissions. We have undertaken initial studies to assess suitable areas for installing.

HOW WILL WE GET THERE?



Surface access



Aviation

Scope 3 Emissions

Emissions arising from passenger and staff travel to and from the Airport are currently responsible for around 39% of our total carbon footprint.

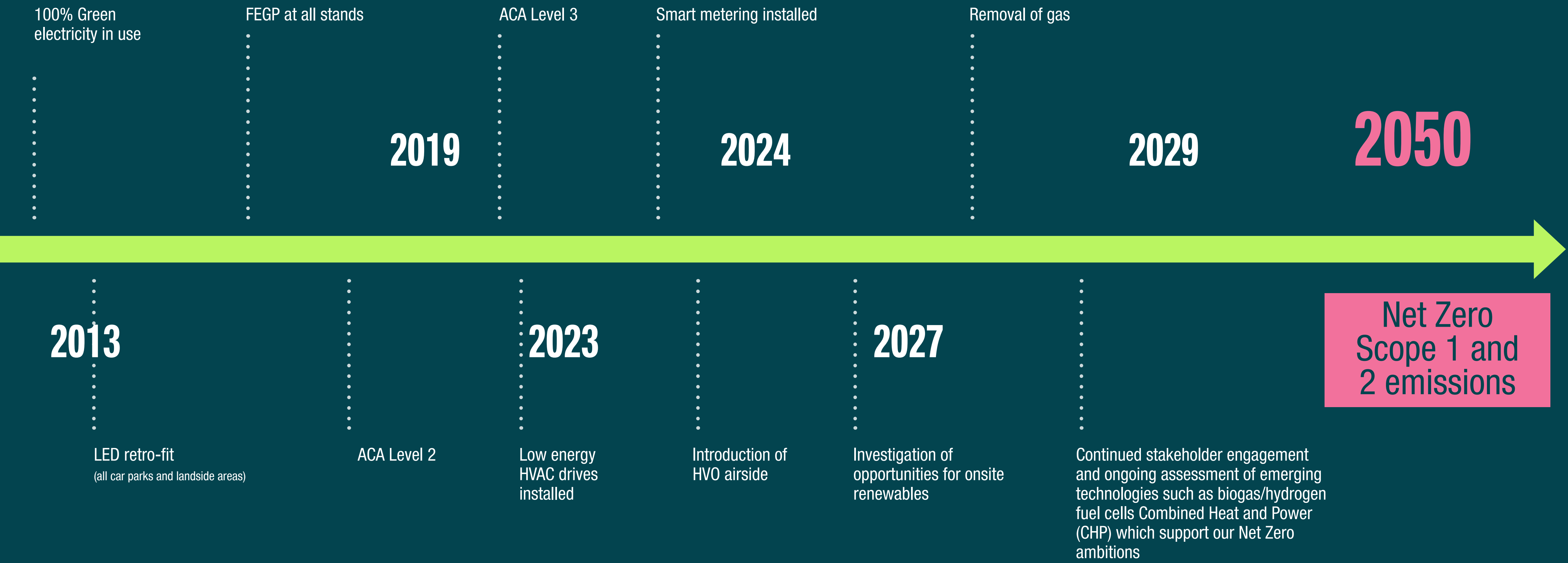
Decarbonising surface access to the Airport is a key focus area, alongside reducing emissions from our onsite transport operations. In 2024 we commenced a programme installing EV charging for passengers in our car parks, and we are committed to working with Government to improve public transport links and cycle routes to the Airport.

Aircraft-related emissions (from landing and takeoff and ground runs) currently represent around 54% of our carbon footprint. To date, work to reduce aircraft emissions includes installation of Fixed Electrical Ground Power (FEGP) at all stands (removing the need for aircraft to use fuel-powered Ground/Auxiliary Power Units), management of ground operations to minimise taxiing times, use of continuous descent/climb operations which reduce aircraft fuel consumption, and introducing an environmental rebate on Airport charges for new generation, lower emission aircraft.

We are committed to:

- Continuing engagement with our airline partners to support and facilitate their decarbonisation strategies
- Actively pursuing opportunities to engage and collaborate with Government and aviation industry initiatives to support and contribute to the development of zero carbon infrastructure and flight

OUR JOURNEY TO NET ZERO



BELFAST CITY AIRPORT

www.belfastcityairport.com