



SUSTAINABILITY PROGRAM

JULY 2023 UPDATE

Introduction

As Raleigh-Durham International Airport strives to meet the growing air service needs of our community, we are committed to incorporating sustainability into our infrastructure development processes and business operations.

The airport’s Sustainability Program helps us:

- Support our Mission to deliver excellent airport services, facilities and unparalleled customer service.
- Balance environmental, economic, social and operational impacts.
- Build support for airport development projects and funding.
- Encourage meaningful collaboration and sharing of best practices with business and community partners.

In early 2023, we marked two major milestones in building our Sustainability Program:

In February 2023, the Airport Authority Board adopted a Sustainability Policy that commits us to delivering a world class airport experience in a sustainable manner by considering long-term environmental, economic, social, and operational impacts in decision-making processes.

In March 2023, we approved a multi-year Sustainability Management Plan that provides a framework for integrating sustainability into airport planning, design, construction, operations, maintenance and business processes. The plan was developed over a four-year period with input from internal and external stakeholders, sustainability experts and the broader community.

This mid-year update provides an overview of new and ongoing sustainability efforts as of early July 2023.

Nine Focus Areas

Our sustainability efforts can be categorized into nine focus areas. Each addresses an aspect of sustainability at RDU, with correlation and reciprocal impact between the focus areas.



Business Continuity & Resiliency



Sustainable Buildings & Infrastructure



Energy



Sustainable Transportation



Greenhouse Gas Emissions



Community, Customers & Employees



Land Use & Natural Resources



Materials & Waste



Water & Stormwater



Business Continuity and Resiliency

This focus area addresses energy resiliency and the ability to adapt to extreme weather events that could disrupt airport operations and threaten human health and safety.

We will investigate opportunities to enhance the continuity of airport operations by minimizing energy and climate-related vulnerabilities. We are performing a vulnerability and risk assessment for the replacement of our primary Runway 5L-23R and expansion of Park Economy 3 as part of the process to pursue an Envision Sustainable Infrastructure Rating for these projects. Business continuity and resiliency efforts will support the other plans we have in place to remain resilient in the case of severe weather and other emergencies.



Sustainable Buildings & Infrastructure

This focus area addresses planning, design, construction and operation of the airport's facilities and infrastructure to improve performance.

Currently, we are considering two rating systems that many airports use to demonstrate sustainability performance and assess the level at which sustainability can be incorporated into building and infrastructure projects. These two systems are: Leadership in Energy and Environmental Design (LEED®) and Envision.

We are proud to have earned LEED® Certification for New Construction and Major Renovations for Terminal 1 in 2014. We are currently in the early stages of pursuing an Envision Rating for the Runway 5L-23R/Taxiway B Replacement Project and the Park Economy 3 Expansion Project.



We are finding opportunities to minimize waste and promote the recycling of construction materials. We recently completed a carpet replacement project in Terminal 1. The newly-installed carpet is made up of 45% post-consumer recycled content, with each tile of carpet made with 27 plastic water bottles. In addition, 100% of the old carpet was recycled, diverting 73,800 square feet of material from the landfill.

We are also working to improve the health and well-being of the people who spend time in our facilities. In 2022, our current janitorial contractor achieved the International Sanitary Supply Association's Cleaning Industry Management Standard Certification for Green Building Criteria with Honors. Among its sustainable practices, the contractor uses green cleaning products that are safer for the health of employees, customers and the environment. They also use high-efficiency, HEPA vacuum filters that meet the Carpet & Rug Institute's Green Label Program to improve indoor air quality.

More than 73,000 square feet of carpet removed from Terminal 1 during a carpet replacement project was diverted from the landfill for recycling.



Energy

This focus area addresses opportunities to reduce energy consumption, improve energy efficiency and identify opportunities to incorporate renewables into our energy portfolio.

In June 2023, RDU hired its first energy manager. The person in this position will be responsible for managing and tracking energy use and greenhouse gas emissions and for developing and implementing energy management strategies that align with the Sustainability Management Plan.

Several energy management and reduction strategies are already in effect at RDU, such as the use of a computerized building management system to manage lighting, heating and cooling controls; fritted glass in Terminal 2 to reduce cooling needs; and sensors in the terminals to reduce the use of lights in unoccupied areas.



Sustainable Transportation

This focus area addresses the operation of vehicles and mobile equipment at RDU, as well as aspects of transportation infrastructure and policies that enhance connectivity and reduce traffic congestion, fuel consumption and greenhouse gas emissions.

In 2019, we introduced four electric zero-emission buses into our fleet. Following that precedent, we added two new electric vans in 2022.

The Airport Authority was the first public body in the Research Triangle region to use electric buses. The buses, which transport guests and employees between the terminals and economy parking lots, are projected to save \$350,000 over each vehicle's lifetime compared to buses that run on diesel fuel. Four more electric buses have been ordered and are expected to be added to our fleet in 2024.



We support and encourage improved transit connectivity to the airport and will continue to engage with other stakeholders to advance these efforts.

RDU's fleet includes four zero-emission electric buses, with four more on the way.



Greenhouse Gas Emissions

This focus area addresses opportunities to reduce greenhouse gas emissions and commits us to become a net zero airport by 2050.

The Airports Council International has set an industry-wide goal of becoming net zero in carbon emissions by 2050. In support of this goal, we will develop an emissions reduction roadmap by 2025 and establish interim milestones through 2050.

As part of this effort, we have set a target of pursuing Airport Carbon Accreditation (ACA) by 2025. ACA is the only institutionally-endorsed, carbon management certification standard for airports. ACA provides a roadmap and common framework for airports to actively manage and reduce their carbon emissions. This accreditation process helps airports lower energy consumption, share knowledge and expertise, and communicate results in reducing greenhouse gas emissions. We will continue to closely monitor our emissions and our carbon efficiency in preparation for our ACA certification efforts.



Community, Customers & Employees

This focus area addresses our plan for engaging our community, customers and employees to drive positive social impact in the region, while also allowing us to leverage regional resources and innovative practices to improve our sustainability initiatives.

In May 2023, we convened an internal sustainability committee made up of employee representatives from each department. Known as RDU's 'Sustainability Champions,' they will help our organization develop, guide, direct and evaluate the implementation of sustainability actions.



We continue to actively engage with businesses, non-profits, academic institutions and local government agencies to explore potential opportunities for information sharing or partnership in areas of sustainability.

For example, in May 2023, we gave an overview of our Sustainability Management Plan to the Triangle Takeoff Coalition, a diverse group of business partners allied in support of RDU, which dedicated its spring business meeting to the topic of sustainability in the aviation industry.

On May 16, 2023, members of the Triangle Takeoff Coalition came together to discuss sustainability in aviation.



Land Use & Natural Resources

This focus area addresses management of land use and natural resources while balancing our business and operational needs to ensure long-term economic, social and ecological function.

RDU is located in one of the fastest-growing regions in the country, and we are working to build an airport that accommodates the region's air service and travel needs. In these efforts, we remain committed to being good stewards of our natural resources while meeting our operational and business needs. As an example, we plant trees that do not produce fruit which could potentially attract wildlife that pose as strike hazards. These best practices were developed in consultation with wildlife specialists at the U.S. Department of Agriculture.

With rapid growth regionally, we are working proactively with federal, state and local governments, such as the counties of Wake and Durham and municipalities of Raleigh, Durham, Cary and Morrisville, to ensure adjacent land use and zoning are compatible with airport operations. We often provide information on our website about current and historic aircraft flight paths and respond to public questions or concerns about aircraft noise and potential building heights for upcoming development projects in the areas surrounding RDU.



Materials & Waste

This focus area addresses the waste management hierarchy—reduce, reuse, recycle and compost—to use materials more responsibly over their lifecycle, with an emphasis on consuming and using less.

In addition to improving our recycling program for solid waste in the terminals and other airport facilities, we are working to reuse materials in construction and operations when practicable.

For example, we undertook a project to replace the aged pavement on Taxiway E in early 2023. The contractor for the project removed and crushed 7,600 cubic yards of concrete and stockpiled it alongside the taxiway. The crushed concrete will be reused as a base layer for new pavement and was diverted from the dump site.



Reusing the crushed concrete will save us the cost of purchasing 7,600 cubic yards of new material for the project. Leaving the crushed concrete at the taxiway site instead of hauling it to a stockpile area approximately a mile-and-a-half away reduces hauling needs by an estimated 1,390 truckloads, saves an estimated 417 gallons of fuel and significantly reduces overall vehicle emissions associated with the project. Continuing to enhance our waste management program will further increase waste diversion from landfills and reduce costs.

More than 7,600 cubic yards of concrete has been crushed for reuse in the Taxiway E Rehabilitation project.



Water & Stormwater

This focus area addresses opportunities to reduce potable water usage and implement best practices in stormwater management to minimize flooding and erosion while protecting regional water quality.

To help reduce potable water usage, we will investigate the installation of high-efficiency water fixtures, fittings and equipment where practicable. In May 2023, the Airport Authority approved a project to upgrade and refresh the public bathrooms in Terminal 2. As we reimagine the existing facilities, we will work to incorporate fixtures and materials that support our sustainability efforts.

To minimize stormwater runoff and enhance surface water quality, we continue to explore the application of best management practices in our development projects and consider the cumulative impacts on our stormwater management infrastructure.

Looking Ahead

As a catalyst for the regional economy with an annual impact of more than \$17 billion, the Raleigh-Durham Airport Authority is committed to continuous improvement as we support the growth of the Research Triangle region. We are focused on achieving our sustainability commitments while we execute our Vision 2040 master plan and deliver a world-class airport experience.

We will continue to grow our Sustainability Program in the coming years as we refine our efforts and develop tactics and timelines to implement planned actions. Our first annual report that will include our progress for the calendar year will be published in January 2024.

Read our full Sustainability Management Plan and follow our sustainability efforts at

www.rdu.com/sustainability