

SUSTAINABILITY MANAGEMENT PLAN

Huntsville International Airport | June 2017

















Leigh|Fisher



Letter from the Director

SUSTAINABILITY AT THE PORT OF HUNTSVILLE



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Huntsville International Airport serves the third most populous city in Alabama, providing transportation connections to the NASA Marshall Space Flight Center, U.S. Army Redstone Arsenal, and the Boeing Company. Huntsville International Airport's Sustainability Management Plan demonstrates our commitment to helping the City of Huntsville, Madison County, and surrounding communities to meet their long-standing commitment to operate a safe and efficient airport for its citizens and promote long term economic growth.

The plan defines the sustainability objectives of the Port of Huntsville in operating a sustainable Airport, which includes using energy and water efficient technologies, investing in our employees and communities, and using responsible waste management strategies and establishes specific actions that will be taken to achieve these objectives.

As Executive Director of the Port of Huntsville, I am pleased to share this comprehensive plan for airport sustainability.

Richard Tucker
Executive Director

Port of Huntsville

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Huntsville International Airport

Sustainability Management Plan

Executive Summary | June 2017

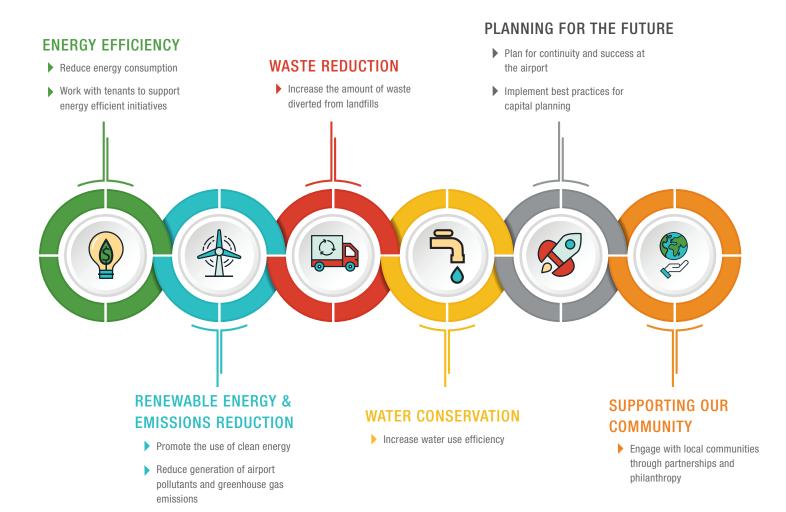
PURPOSE

The Huntsville International Airport Sustainability Management Plan establishes the priorities and actions to be taken by the Port of Huntsville to enhance the sustainability of the Airport while continuing to offer safe and efficient air transportation services for the citizens and businesses of the City of Huntsville, Madison County, Huntsville City Schools, and surrounding communities.

RECOMMENDATIONS

The Port of Huntsville identified six focus areas—Energy Efficiency, Renewable Energy & Emissions Reductions, Waste Reduction, Water Efficiency, Supporting Our Community, and Planning for the Future—that will guide the plan to address all aspects of the airport, environment, and community. This ensures that sustainability considers not only the air, land, and water, but includes the airport's impact on the city of Huntsville residents and our employees.

These goals and commitments are a demonstration of Huntsville International Airport's path to sustainability.





Introduction

The Port of Huntsville owns and operates Huntsville International Airport, a small-hub airport providing commercial passenger, general aviation, military, and cargo services to the Huntsville-Decatur area.

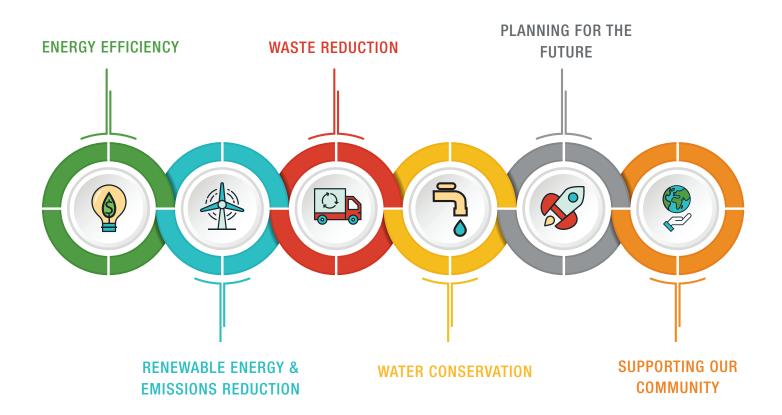
Originally constructed as a jetport in 1967, Huntsville International Airport is now the largest commercial airport in North Alabama, serving more than 1.2 million passengers annually. The airport serves as the main connection to NASA Marshall Space Flight Center and the U.S. Army Redstone Arsenal, and as a cargo hub for Panalpina, based in Switzerland. The Port of Huntsville is strategically located to enhance the local and regional economy. Long-term planning, efficient use of resources, and strong community relationships have contributed to the continued success at Huntsville International Airport.

The Port of Huntsville has identified a need to formally address sustainability and address a plan for systematic implementation. This Sustainability Management Plan provides the information for employees and public to understand the Airport's ongoing commitment in sustainability.



COMPONENTS OF THE SUSTAINABILITY MANAGEMENT PLAN

This Sustainability Management Plan includes six focus areas that encompass the priorities of the Port of Huntsville for planning for a sustainable future. Each has a goal and initiatives described in further detail in sections to follow.



Development Process

BASELINE CONDITIONS

BEST INDUSTRY PRACTICES

FOCUS AREA SELECTION

STAKEHOLDER INVOLVEMENT

PLAN DEVELOPMENT PROCESS

The Port of Huntsville developed the Sustainability Management Plan (SMP) to identify focus areas where additional action was needed, establish goals to enhance sustainability, and provide a strategic approach to achieve goals.

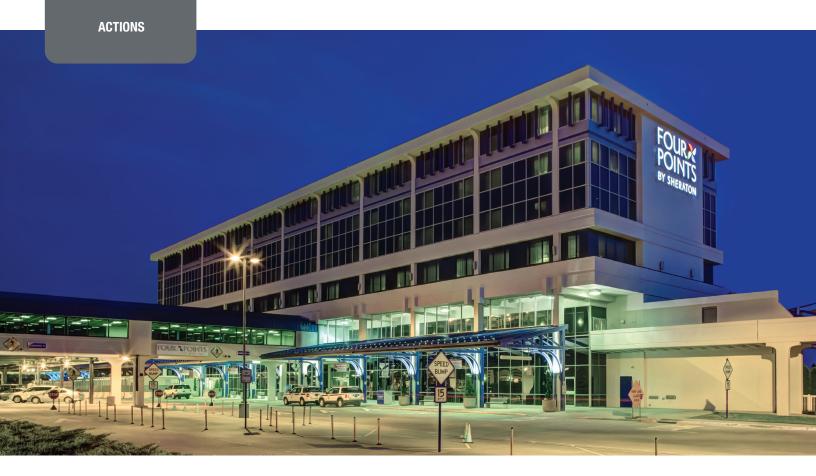
The plan demonstrates alignment with the FAA's Sustainability Master Plan Program, Airports Council International – North America (ACI-NA), and regional sustainability efforts.

Baseline Conditions

The Port of Huntsville reviewed current airport operations, maintenance, and construction to understand the Airport's baseline conditions. The Port paid particular attention to opportunities to reduce the use and cost of energy. It collected, reviewed, and analyzed energy data to provide over 100 energy efficiency measures to enhance the energy independence and sustainability at the Airport. The Port of Huntsville prioritized energy efficiency measures for implementation to maximize the energy savings benefits.

Best Industry Practices

The Port of Huntsville evaluated best practices within the aviation industry and in the surrounding Huntsville area for possible inclusion in the Sustainability Management Plan. First, the Port collected aviation best practices from the Sustainable Aviation Guidance Alliance's database, an open-source database where airports can share their experiences in various sustainability activities. Second, the Sustainability Management Plan identified 30 peer airports and reviewed publicly available sustainability initiatives at those sites. Third, the Sustainability Management Plan reviewed sustainability practices within the top 10 employers in the Huntsville region to identify possible synergies and partnerships with the Port of Huntsville.



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Focus Area Selection

The Port of Huntsville identified six focus areas for the Sustainability Management Plan, including: Energy Efficiency, Renewable Energy & Emissions Reduction, Waste Reduction, Water Conservation, Planning for the Future, and Supporting Our Community. The Port of Huntsville consulted and reviewed strategic priorities to discover the six areas.

Stakeholder Involvement

Port of Huntsville employee and tenant participation is critical to the Sustainability Management Plan's success. During the development of the Sustainability Management Plan, the Port of Huntsville engaged with key stakeholders to identify complementary initiatives to the Sustainability Management Plan.

All stakeholders interviewed expressed interest in working with the Port of Huntsville to support sustainability initiatives, especially the Sustainability Management Plan's recycling programs, energy efficiency, and water efficiency programs.

Table 1: Tenant Stakeholder Interests Expressed

Tenant Group	Conserve Energy/Water	Reduce Waste	Community Sustainability
Airlines	✓		~
Concessions	~	~	~
Hotel		✓	✓
Air Cargo	✓	✓	✓
Golf Course	✓		

The Sustainability Management Plan development process engaged Port of Huntsville employees and identified key personnel to champion each focus area, as shown below.



The Port of Huntsville also recognizes the importance of contributing to our communities and their involvement in the Sustainability Management Plan. The airport's sustainability efforts will include coordinating with the City of Huntsville, Madison County, Huntsville City Schools, and the Huntsville community.



Energy Efficiency





Energy Efficiency

Energy refers to all of the sources of energy resources the Huntsville International Airport uses, including electricity, diesel and gasoline fuels, and natural gas. Improving the energy efficiency of the airport not only reduces the energy consumed, but it also reduces operating costs and the greenhouse gas footprint of the airport.



There are numerous opportunities to improve the energy efficiency throughout the airport campus, including proactive management practices and the upgrade of parking garage lights to LED lighting. The Port's commitment to energy efficiency begins with an energy audit that identifies and prioritizes these opportunities and includes the exploration of the role of an Energy and Sustainability Manager to keep the Port operating efficiently into the future.

GOAL 1: REDUCE ENERGY CONSUMPTION

Action	Metric	Benefits
1.1 Conduct an energy audit	Energy audit completion	
1.2 Implement high- priority energy efficiency measures	Number of energy efficiency measures completed	
1.3 Explore opportunity to hire a full-time Energy & Sustainability Manager	Employment of full-time Energy & Sustainability Manager	
1.4 Implement parking garage lighting upgrades	Completion of lighting upgrade	
1.5 Plan for terminal building boilers and HVAC upgrades	Completion of upgrades	

GOAL 2: WORK WITH TENANTS TO SUPPORT ENERGY EFFICIENCY INITIATIVES

Action	Metric	Benefits
2.1 Work with tenants to identify energy efficiency opportunities	* *	

Renewable Energy & Emissions Reduction















Renewable Energy & Emissions Reduction

The Port of Huntsville seeks to diversify the sources of available energy and include clean energy sources where possible. Cleaner energy means reduced air pollution and a reduced greenhouse gas footprint. The Port's approach will be to update its air quality emissions inventory and develop an additional inventory of greenhouse gas emissions. These inventories will assist with the identification of priority opportunities in the future.



GOAL 3: PROMOTE THE USE OF CLEAN ENERGY

Action	Metric	Benefits
3.1 Investigate a natural gas combined heat-and-power (CHP) micro turbine energy system to support energy demands and emergency back-up energy needs	Completion of natural gas CHP micro turbine energy system	
3.2 Seek additional opportunities to incorporate renewable and clean energy	Development of inventory of opportunities	

GOAL 4: REDUCE GENERATION OF AIRPORT POLLUTANTS AND GREENHOUSE GAS EMISSIONS

Action	Metric	Benefits
4.1 Develop a greenhouse gas emissions inventory	Completion of greenhouse gas inventory	

Waste Reduction

Waste Reduction

The Port of Huntsville seeks to reduce the volume of waste that Huntsville International Airport sends to area landfills. Tenants and landscaping around the Port are also generating waste.



Reducing waste will start with a waste audit to identify waste streams and opportunities for reductions that will be implemented in a waste strategy. High priority activities are expected to include the development of a recycling program and diversion of landscaping and organic waste to other uses, including compost and local waste-to-energy cogeneration facilities.

GOAL 5: INCREASE THE AMOUNT OF WASTE DIVERTED FROM LANDFILLS

Action	Metric	Benefits
5.1 Conduct a waste audit	Completion of waste audit	
5.2 Develop a waste management strategy	Completion of strategy development	
5.3 Where feasible, create a composting program for landscaping waste	Implementation of composting program for landscaping waste	
5.4 Donate compost from landscaping waste to local gardens and schools	Amount of compost donated	
5.5 Implement recycling program in the passenger terminal	Implementation of recycling program	

Water Efficiency

Water Efficiency

The Huntsville International Airport and its tenants currently use city water to irrigate approximately 100 acres of land around the Port. The Huntsville area regularly experiences droughts, including in 2016, which greatly impact the operations and costs of water resources.



As a steward of the environment, the Port of Huntsville is committed to reducing the water demands at the airport by improving water efficiency of airport operations and incorporating drought-tolerant, native grasses and vegetation in landscaping while still providing the beautiful and world-class landscaping that has repeatedly won the Huntsville Beautification Board's City of Huntsville Beautification Award.

GOAL 6: INCREASE WATER USE EFFICIENCY

Action	Metric	Benefits
6.1 Develop an irrigation master plan	Completion of irrigation master plan	
6.2 Develop a landscaping master plan	Completion of landscaping master plan	
6.3 Investigate on site groundwater well system to supplement non potable water use	Implementation of on site groundwater well system	

Planning for the Future





Planning for the Future

Investing in future leaders of the Port of Huntsville is highly impactful to safeguarding resiliency and advancement at the airport.



The Port of Huntsville views employees as its greatest asset and is committed to providing our employees with important skills, knowledge, and tools for success. The Port of Huntsville provides employees with the tools to advance their careers and helps them set a path for success. We understand the importance of planning for the future leaders of the Port of Huntsville, ensuring the resiliency and advancement of the Airport.

The Port of Huntsville additionally seeks to improve the capital improvement planning process, ensuring lifecycle costs and impacts are included in strategic decisions, and the process engages with all key stakeholders efficiently and effectively.

GOAL 7: PLAN FOR CONTINUITY AND SUCCESS AT THE AIRPORT

Action	Metric	Benefits
7.1 Expand and maintain employee wellness committee	Programs developed from the employee wellness committee	
7.2 Develop career paths for entry-level employees	Completion of career path strategy	

GOAL 8: IMPLEMENT BEST PRACTICES FOR CAPITAL PLANNING

Action	Metric	Benefits
8.1 Develop a Capital Improvement Plan (CIP) checklist for evaluating potential projects	Completion of CIP checklist	

Supporting our Community









Supporting Our Community

As the aviation gateway for the Huntsville-Decatur region, the Huntsville International Airport is well-positioned to enhance the local and regional community. The Port of Huntsville supports programs to promote local charities, public programs, and partnerships and has repeatedly won the Huntsville Beautification Board's City of Huntsville Beautification Award, including the Mayor's Award for being the top award winner in 2014. In addition, the Port of Huntsville seeks to contribute to improving the implementation of sustainability best practices throughout the aviation industry by sharing its experience in the development and implementation of the Sustainability Management Plan with ACI-NA airport members.



GOAL 9: ENGAGE WITH LOCAL COMMUNITIES THROUGH PARTNERSHIPS AND PHILANTHROPY

Action	Metric	Benefits
9.1 Convene an annual stakeholder sustainability working group	Completion of at least two annual stakeholder sustainability working group meetings	
9.2 Participate in ACI- NA industry meetings	Number of meetings participated	
9.3 Grow partnerships with the City of Huntsville and Madison County	Number of programs participated in or developed in collaboration with local communities	

LeighFisher is a leader in the aviation consulting sector for over 65 years and continues to set the standard for innovation and thought leadership. With a focus on delivering solutions that meet the needs of our clients' financial, operational, and environmental goals and objectives, we have built a long-standing reputation as trusted advisors to airport sponsors and other aviation sector clients. If you have questions or comments about this Sustainability Management Plan, please contact:

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