



# SUSTAINABILITY PLAN

## EXECUTIVE SUMMARY

A holistic approach to ensure the economic viability, operational efficiency, natural resource conservation, and social responsibility of the Flagstaff Airport.





## FLAGSTAFF AIRPORT

The Flagstaff Airport Sustainability Plan is economically, environmentally, socially and operationally sustainable. Through this plan the airport is committing to retiring existing practices, adopting more efficient policies, and incorporating new technologies to achieve the goals set forth in the plan.

**A sustainable and resilient Airport provides widespread benefits to not just the facility, but also to the community and the region.**



The airport has developed this plan to build upon the City of Flagstaff's achievements in sustainability and provide further benefits to the City of Flagstaff and Northern Arizona communities.



# FLAGSTAFF AIRPORT SUSTAINABILITY PLAN CATEGORIES & GOALS

Sustainability categories and goals were developed with input from stakeholders in the community. Categories are focus areas of interest identified by the airport. Goals provide aspirations or targets to work toward within each category. Below are the categories and goals identified for the Flagstaff Airport Sustainability Plan.

## CATEGORIES

## SUSTAINABILITY GOALS

### Air Quality



- Reduce criteria air pollutants emitted from airport owned and controlled sources to improve public health and reduce environmental impact
- Reduce airport owned and controlled greenhouse gas emissions (Scope 1 and 2 emissions) by 5% below current levels (2013 baseline) by 2020

### Community Well-being



- Enhance awareness of the community benefits of the Airport
- Enhance user experience at the airport
- Provide a safe and efficient airport
- Build and maintain community partnerships
- Support the community by being an economic driver

### Energy



- Reduce electricity use at airport by 15% below 2013 levels by 2020 (consumption per square foot)
- Reduce natural gas use at airport by 2% below 2013 levels by 2020 (consumption per square foot)
- Secure 35% of electricity used in buildings and operations from renewable sources by 2020
- Achieve Net Zero by 2030

### Dark Skies



- Become the most "International Dark-Sky-Compliant" (according to the International Dark-Sky Association (IDSA) standards) commercial service Airport in the nation
- Improve lighting in areas at the airport to meet and, if possible, exceed the goals of the IDSA and the Flagstaff City Outdoor Lighting Standard, as permitted by FAA regulations

### Natural Resource Management



- Manage the airport property to protect habitat, where able, while ensuring the safe and efficient operation of the airport
- Minimize wildlife hazards to enhance safety for aircraft operations
- Reduce potential for fire hazards on airport through community partnerships

## CATEGORIES

## SUSTAINABILITY GOALS

### Land Use



- Continue to encourage local jurisdictions to enable aviation/land use compatibility around the Airport currently and in the future
- Work with surrounding communities to proactively address aircraft noise issues
- Increase connectivity between the airport and the community to allow for multi modal alternatives for transportation

### Planned Development



- Develop and maintain facilities and infrastructure at the airport to support long-term, compatible, efficient, and flexible growth
- Integrate sustainability into all major airport planning documents and contracts, where applicable
- Enhance sustainability practices for all airport activities (e.g. O&M, administration, procurement, design/construction/post-construction) as conducted by all involved in the operation of the airport

### Resiliency and Preparedness



- Increase operational resiliency and preparedness to the changing climate
- Enhance the level of organizational and individual preparedness through education and training
- Incorporate resiliency and preparedness principles into airport operations

### Waste Management



- Reduce the volume of solid waste (per enplanement) sent to a landfill by the Airport by 50% by 2025
- Promote sustainable procurement in airport operations, including for tenants
- Become zero waste by 2035

### Water



- Reduce the potable water consumption to 5% below 2013 levels by 2020
- Educate customers about the importance of water conservation and protecting this region's natural resources



# FLAGSTAFF AIRPORT SUSTAINABILITY PLAN INITIATIVES

SUSTAINABILITY PLAN INITIATIVES CATEGORIES	
	<i>Air Quality</i>
	<i>Community Well-Being</i>
	<i>Energy</i>
	<i>Dark Sky</i>
	<i>Natural Resource Management</i>
	<i>Land Use</i>
	<i>Planned Development</i>
	<i>Resiliency and Preparedness</i>
	<i>Waste Management</i>
	<i>Water</i>

CATEGORIES	INITIATIVE
	Review HVAC controls and temperature set points in the Terminal.
	Install appropriately-timed occupancy controls on secure area lighting in the Terminal.
	Replace dimmable can lamps with dimmable LEDs in the Aircraft Rescue and Fire Fighting (ARFF) facility.
	Install vending misers (include specification in vending machine contract) in the Terminal.
	Relamp linear fluorescent with low wattage T8 or LED in the Terminal.
	Relamp linear fluorescent with linear LED in the Terminal.
	Replace pendant can lamps with LED in the Terminal.
	Relamp emergency light fluorescent with LED in the ARFF.
	Install daylighting controls on atrium lighting. Install a timer or sensor (or combination) in the Terminal.
	Add sheer shades to windows or tinting.
	Offer stationary bikes that can generate energy when pedaled for users to recharge personal electronics and get a workout in.
	Include a placard in all airport-owned vehicles requesting that the vehicle operator not leave the car idling.
	Develop sustainability "report card" to promote to the public.
	Study parking needs in the Airport Master Plan; keep parking costs low, and walk time short.
	Improve recycling signage in security check point areas.
	Use social media to promote the airport and its sustainability accomplishments, issue alerts, travel tips, traffic information, weather updates, flight cancellations, etc.
	Replace outdoor lighting fixtures and/or add directional shades on lights on hangars.

CATEGORIES

INITIATIVE

-  Communicate with local businesses regarding the parking situation at the Airport.
-  Replace outdoor lighting fixtures and shade controls.
-  Offer specially designed informational materials that discuss the Airport's role in Dark Skies and how it is going above and beyond to be Dark Skies compliant.
-  Collaborate with City for annual Lights Out Flagstaff event (and install educational displays/videos for promotion).
-  Develop "sustainable tenant lease" language as a baseline for use in lease negotiation with tenants.
-  Create and incorporate specific contract language requiring sustainable practices for future contracts and projects.
-  Increase overall visitor parking to improve overall user experience.
-  Conduct a review of existing power and back-up power for the Airport and determine if redundancy is needed in certain areas.
-  Develop a crisis communication plan.
-  Implement a composting program at the Airport (off-site partnership).
-  Re-bin airport with Boxana recycling containers (or ones like them).
-  Install a water bottle filler station and work with concessions to sell only reusable water bottles.
-  Decrease number of atrium lights that are on all the time.
-  Install 1.0 gpm faucet aerator on bathroom sink faucets to conserve water use.
-  Change from liquid hand soap to foam hand soap.
-  Install an LED Precision Air Path Indicator.
-  Conduct a water audit.
-  Support the Dark Sky cause by becoming an active collaborator and participant in local Dark Sky events and organizations.

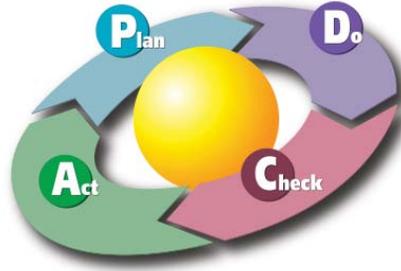


# SUSTAINABILITY PLAN INITIATIVES



# FLAGSTAFF AIRPORT SUSTAINABILITY PLAN IMPLEMENTATION COURSE OF ACTION

Implementation of sustainability includes more than just the physical act of putting projects into play. It also includes tracking and allowing for “course” corrections if technology or other conditions change.



<b>PLAN:</b>	Categories of Interest, Inventory, Identify Sustainability Goals, and Develop Initiatives.
<b>DO:</b>	Sustainability Implementation.
<b>CHECK:</b>	Check Success, Review and Improve.
<b>ACT:</b>	Adjust Steps as Necessary.

Action will be required on a regular basis to ensure that the process becomes a part of the airport’s culture and is integrated within the city’s sustainability processes.



*Coordination with Municipal Sustainability Plan*



*Coordination with Flagstaff Regional Plan*

## MONTHLY ACTIVITIES

- Review and screen initiatives.
- Input monthly data into Tracking Tool.
- Add implemented sustainability initiatives in the Tracking Tool.

## CHECK-UP ACTIVITIES

- Meeting with airport and the City sustainability staff three times a year for sustainability check-ups.

## ANNUAL ACTIVITIES

- Input annual data into the Tracking Tool.
- Produce an annual sustainability report.
- Conduct an annual report meeting between airport and the City sustainability staff.

## BIENNIAL ACTIVITIES (Every Two Years)

- Reconsider the Sustainability Goals and Initiatives and adjust as necessary.
- Review the Sustainability Tracking Tool and adjust as necessary.
- Improve quarterly and annual reporting templates, if warranted.
- Evaluate these implementation steps, and revise as necessary.





For additional information about the Flagstaff Airport Sustainability Plan please visit the Airport website at: <http://www.flagstaff.az.gov/>



# SUSTAINABILITY PLAN

EXECUTIVE SUMMARY

Mead  
& Hunt



FLAGSTAFF AIRPORT  
GRAND DESTINATIONS

