



# Virginia Airports Sustainability Management Plan

## FACT SHEET FOR GENERAL AVIATION-COMMUNITY AND LOCAL SERVICE AIRPORTS

### DOAV's Mission

- Cultivate an advanced and sustainable aviation system that is safe, secure, and provides for economic development;
- Promote aviation awareness and education; and
- Provide the safest and most efficient flight services for the Commonwealth leadership and state agencies.

### What is Sustainability?

For Virginia airports, "sustainability" is a strategic approach to airport planning, development, asset management, and resource protection—including financial, environmental, community relations, and other factors—that prioritizes current operational needs while best preparing Virginia's airports for success in the future.

### Sustainability Planning at Public-Use Airports

In 2015, the Virginia Department of Aviation (DOAV) began developing a statewide Sustainability Management Plan (SMP) for all 66 public-use airports in the Commonwealth of Virginia. The plan is available on DOAV's website and contains practical guidance and user-friendly tools to assist Virginia airport managers with all facets of sustainability-related planning. As one of the first statewide airport sustainability plans in the country to include different types and sizes of airports, the Virginia Airports SMP helps airport managers realize cost-effective sustainability solutions.

### Purpose of a Sustainability Management Plan

The purpose of an SMP is to assist airports in implementing short- and long-term initiatives that promote greater financial, environmental, and community-oriented well-being. A robust SMP integrates with and supports other airport planning documents, like the Airport Master Plan, and helps airport managers set sustainability goals, identify specific initiatives that support those goals, find funding for the initiatives, and track the progress of the goals over time with clear metrics and targets.

### Sustainability Categories

The Virginia Airports SMP addresses airport sustainability across five categories relevant to Virginia's public-use airports: Economic Performance, Airport Community, Energy and Emissions, Waste, and Natural Resources.

### Benefits to Airports

Proactive planning towards comprehensive sustainability can benefit airports in many ways. For example, SMPs can help:

- Achieve financial savings through operational efficiency;
- Improve communication and relationships with neighboring communities;
- Reduce environmental impact and compliance risks; and
- Increase competitiveness relative to similarly sized airports.



## Elements of the Virginia Airports SMP

### SMP STATEWIDE FRAMEWORK

The SMP Statewide Framework presents DOAV's overall vision for airport sustainability in the Commonwealth, and provides an overview of Virginia's aviation system, including existing sustainability efforts at many of Virginia's airports. The Framework is accompanied by Supplements for three types of airports: (1) Commercial Service, (2) Reliever and General Aviation-Regional, and (3) General Aviation-Community and Local Service.

### SMP GENERAL AVIATION-COMMUNITY AND LOCAL SERVICE SUPPLEMENT

The Supplement for General Aviation-Community and Local Service airports includes a number of resources, recommendations, and tools that support the five sustainability categories. The Supplement includes the following components:

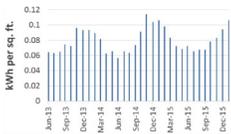


#### Menu of Goals, Metrics, Targets, and Initiatives –

This resource, which is tailored to General Aviation-Community and Local Service airports, provides a comprehensive menu of potential sustainability goals with guidance on tailoring goals to each airport community's specific needs. It is organized by five sustainability categories and accompanied by associated metrics, targets, and initiatives.



**Funding Guidance** – This resource provides a detailed list of traditional and non-traditional funding sources to support different types of airport sustainability initiatives, including eligibility criteria, form of funding, and requirements for consideration.



**Utility Performance Tracking Tool** – This easy-to-use tool enables airport managers to track electricity, natural gas, and water use on a monthly and annual basis, thereby improving the airport's energy planning and helping them identify high-consumption buildings and facilities.



**Stakeholder Engagement Guidance** – This succinct guide helps airport managers effectively engage with key stakeholders when developing and implementing sustainability plans.

### Explore the Virginia Airports SMP Online

Access the Virginia Airports SMP by visiting the DOAV website and downloading the SMP materials at <http://www.doav.virginia.gov/>.

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## — CASE STUDY —

### ORANGE COUNTY AIRPORT



During the development of the SMP, three Virginia airports served as case studies to “road-test” the SMP material and ensure its suitability for other airports in the Commonwealth. One airport, **Orange County Airport**, conducted a lighting audit, which is one sustainability initiative in the SMP Supplement. The audit revealed that the simple payback for replacing light fixtures at the airport with more efficient lighting could be as short as 0.9 years. The audit also revealed that eight light fixtures could be upgraded with simple paybacks of less than three years, including the flood light on the wind sock, which could be replaced with a LED floodlight and save \$137 per year in electricity costs. Additionally, upgrading all of the CFL pin lights in the terminal with drop-in LED replacements would save over \$6,500 over 15 years. Overall, the airport found numerous near-term savings opportunities in upgrading to more efficient lighting by utilizing the resources in the SMP.

