

DANE COUNTY  
REGIONAL AIRPORT  
MADISON



# DCRA Sustainability Report

*February 18, 2015*

*It's all about the journey.*

# DCRA Sustainability Study Planning Process

As part of the DCRA sustainability planning process, the Airport developed sustainability goals and objectives to be consistent with Dane County's Sustainability Policies, which include:

**Reduce** and eventually **eliminate** Dane County government's contribution to **fossil fuel** dependence and to wasteful use of scarce metals and minerals;

**Reduce** and eventually **eliminate** Dane County government's contribution to dependence upon persistent **chemicals** and wasteful use of **synthetic substances**;

**Reduce** and eventually **eliminate** Dane County government's contribution to encroachment upon nature and **harm to life-sustaining ecosystems** (e.g., land, water, wildlife, forest, soil, ecosystems); and

**Reduce** and eventually **eliminate** Dane County government's contribution to conditions that **undermine** people's ability to meet their **basic human needs**.

# Sustainability Mission Statement

*The Dane County Regional Airport recognizes the importance of sustainability – and is committed to actively engaging in organizational EcoMentality© – economically, environmentally and socially. We will use resources in a responsible manner, establish achievable environmental goals, and focus on sustainability through ongoing improvements.*

This sustainability mission statement is consistent with the **Airport's overall mission statement** as well as **Dane County's Sustainability Principles**. This mission statement informed the development of sustainability goals and objectives; and together, these provide a guiding framework for DCRA's efforts.

# What is Sustainability?



Sustainability has redefined the values and criteria for measuring organizational success by using a “**triple bottom line**” approach that considers **economic**, **environmental** and **social well-being**. Applying this approach to decision-making is a practical way to optimize economic, environmental and social capital. DCRA is taking a broad view of sustainability that builds on the concept of the triple bottom line and considers airport-specific context.

**Consistent with the Airports Council International - North America’s (ACI-NA) definition of Airport Sustainability, DCRA is focused on a holistic approach to managing the airport to ensure economic viability, operational efficiency, natural resource conservation, and Social responsibility (EONS).**

# EONS Approach to Sustainability



*DCRA has joined other leading airports by ascribing to the EONS definition of sustainability that considers not only the “triple bottom line” but also operational efficiency – an integral element to airports’ viability*

# DCRA Sustainability Goals & Objectives

The following sustainability goals and objectives were developed as part of the sustainability planning process. They serve to guide the identification and selection of sustainability initiatives for implementation, which are outlined at the end of this report. On an ongoing basis, DCRA will use these goals and objectives to prioritize new initiatives for implementation at the Airport.

## **Energy**

DCRA will continue to leverage the latest technologies to maximize the Airport's energy efficiency.

## **Economic Vitality**

Enhance the economic vitality of DCRA to ensure long-term financial stability.

## **Social Responsibility**

Promote a positive relationship between DCRA and the surrounding community.

## **Waste Management**

DCRA will actively manage its materials use and solid waste generation.

## **Natural Resources**

DCRA will work to preserve natural areas and continue to be an environmental steward.

# Short-Term Sustainability Initiatives

Short-term is defined for the purpose of this study as 0-3 years

\* Ongoing initiative

## Energy

- ▶ Energy-1\* Assess Renewable Energy Options when Initiating New Projects
- ▶ Energy-2\* Conduct Continuous Energy Metering
- ▶ **Energy-3 Decrease Temperature in the Baggage Handling Area (2015)**
- ▶ Energy-4\* Continue Installation of LED Airfield Lighting
- ▶ **Energy-5 Retrofit Lights in Parking Ramp to LED (2014)**

## Economic Vitality

- ▶ Econ-1\* Evaluate Business Practices for Opportunities to Incorporate Sustainability Considerations
- ▶ Econ-2 Designate Project-Specific LEED Credits for New Developments
- ▶ Econ-3\* Encourage Non-Aeronautical Development Projects in Industrial Park to Follow Sustainability / LEED Design Principles

# Short-Term Sustainability Initiatives

## Waste

- ▶ Waste-1 Document Solid Waste Management Policy & Procedures
- ▶ Waste-2\* Continue to Install Water Bottle Filling Stations
- ▶ **Waste-3 Set Up Liquid Collection Stations at Security Checkpoints (2016)**
- ▶ Waste-4 Implement a Recycling Awareness Campaign for Passengers and the Public
- ▶ Waste-5\* Assist Airlines in Improving Handling of Deplaned Waste
- ▶ Waste-6\* Assist Tenants in Improving Waste Handling
- ▶ **Waste-7 Improve Visibility, Number, and Placement of Recycling Receptacles in the Terminal (2016)**
- ▶ Waste-8\* Implement Recycling Outreach and Education Program for Employees
- ▶ Waste-9 Include Recycling Requirement in Tenant Procedures or Lease Agreements
- ▶ **Waste-10 Install New Labeling in the Waste Sorting Room (2014)**
- ▶ **Waste-11 Improve Recycling Signage in Terminal (2016)**
- ▶ **Waste-12 Institute Sustainable Office Procedures, Consistent with County Policy (2014)**



# Short-Term Sustainability Initiatives

## Natural Resources

- ▶ NR-1\* Incorporate Native/Low Maintenance Vegetation in Landscaping Plans for Future Projects
- ▶ **NR-2 Consider Leasing Land for an Apiary (2015)**
- ▶ NR-3\* Replace or Install Restroom Manual Flush Valves Instead of Auto Sensor Valves
- ▶ NR-4\* Facilitate Electric Charging Station Infrastructure for Electric Ground Support Equipment (GSE) at Terminal Gates
- ▶ NR-5\* Evaluate Innovative Best Management Practices when Initiating New Projects
- ▶ NR-6 Consider Water Reuse (Gray Water) and Cisterns in Future Facility Design

## Community

- ▶ **Comm-1 Install Within the Terminal a Multimedia Display About Sustainability at DCRA (2016)**
- ▶ Comm-2\* Develop a Communication Plan to Report on Sustainability Successes
- ▶ Comm-3\* Issue a Press Release Whenever an Airport Sustainability Project is planned and/or Implemented
- ▶ Comm-4\* Provide Parking Availability Information on DCRA Website for All Lots

## Tenant & Public

- ▶ T&P-1 Engage Vendors in DCRA's Sustainability Program
- ▶ T&P-2 Encourage Single-Engine Taxi Procedures
- ▶ T&P-3\* Continue to Encourage the Use of Local Vendors/Suppliers

# Mid-Term Sustainability Initiatives

Mid-term is defined for the purpose of this study as 3-5 years

## Energy

- ▶ **Energy-6 Retrocommission the Terminal Building (2015)**
- ▶ Energy-7 \*Conduct Ongoing Commissioning, Focusing on the Terminal Building
- ▶ Energy-8\* Install Lighting Occupancy Sensors in the Terminal Building
- ▶ **Energy-9 Purchase a Summer Boiler to Accommodate Lighter Hot Water Loads (2015)**
- ▶ Energy-10 Turn off Air Handler Units at Night (12:00 AM-5:00 AM)
- ▶ Energy-11 Replace Art Court Spot Lights with LEDs

## Economic Vitality

- ▶ Econ-4 Establish Project Specific Minimum Threshold of Building Standards  
(Performance Standards)

## Waste

- ▶ Waste-13 Encourage Restaurants to Coordinate and Use Similar Compostable/  
Recyclable Disposable Cups, Plates, and Cutlery

## Natural Resources

- ▶ NR-7 Encourage Employee Ridesharing, Carpooling and/or Telecommuting
- ▶ NR-8 Install Pre-Conditioned Air

# Long-Term Sustainability Initiatives

Long-term is defined for the purpose of this study as 5-10 years and beyond

\* Ongoing initiative

## Energy

- ▶ Energy-12 Install Ventilation Occupancy Sensors in the Terminal Building
- ▶ Energy-13 Re-evaluate Feasibility of Geothermal HVAC in the Terminal Building
- ▶ Energy-14 Conduct a Daylighting Study for the Terminal Building
- ▶ Energy-15 Prepare an Online Systems Manual

## Economic Vitality

- ▶ Econ-5\* Measure User Satisfaction with Airport Facilities
- ▶ Econ-6\* Enhance Recognition of Art Program

## Waste

- ▶ Waste-14\* Donate Items Left Behind in Terminal
- ▶ Waste-15 Update Construction Waste Management Plan with Recycling Targets
- ▶ Waste-16 Implement Outreach and Education Program to Tenants and Airlines
- ▶ Waste-17 Confirm with Contractor that Yard Waste is Not Being Disposed at Landfill
- ▶ Waste-18 Prevent Organics (from Restaurants) from Being Disposed at Landfill
- ▶ Waste-19 Document on a Monthly Basis use of Green Cleaning Materials
- ▶ Waste-20 Conduct Monthly Walk-Throughs to Monitor Waste Practices

# Long-Term Sustainability Initiatives

## Natural Resources

- ▶ NR-9 Prepare an Airport-Wide Greenhouse Gas Emissions Inventory Every 10 Years
- ▶ NR-10 Explore Alternative Vegetation Management Techniques (goats/llamas) in Non-AOA areas that are difficult to maintain or to reduce invasive species
- ▶ NR-11 Consider Public Charging Stations for Electric Vehicles in Garage

## Tenant & Public

- ▶ T&P-4 Encourage Use of Electric-Powered Ground Support Equipment (GSE)



# Questions?

