Sustainable Planning Makes \$\$ and Sense

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Federal Aviation Administration

What is Sustainability?

Sustainability is not.....







What is Sustainability?

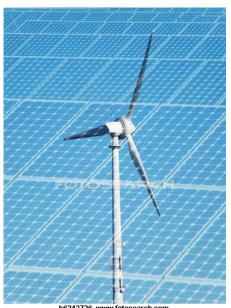
Sustainable actions...

- Reduce environmental impacts
- Help maintain high, stable levels of economic growth
- Help achieve social progress









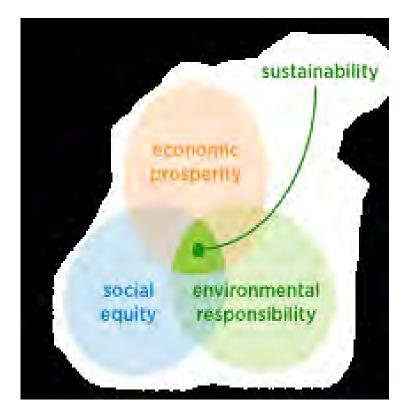
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Defining Airport Sustainability

Airport sustainability planning is a holistic approach to managing an airport to ensure: •Economic viability •Operational efficiency •Natural resource conservation •Social responsibility

Airports Council International of North America





Benefits of Airport Sustainability Planning

- Economic Viability
 - Reduces development and/or operations and maintenance costs
 - o Results in greater utilization of assets
 - Encourages integrated design as a way of doing business
- Operational Efficiency
 - Efficient use of existing resources and facilities
 - o Minimizes waste
- Natural Resource Conservation
 - o Conserves and protects resources
 - o Avoids and reduces impacts
 - o Facilitates approval/ permitting
- Social Responsibility
 - Improves relationships with community and agencies
 - Enhances quality of life and socio-economic well being of the local community





What is Driving Airport Sustainability?

- Federal, State and local mandates
- Rising and fluctuating energy costs
- Aging infrastructure
- Growing stewardship philosophy
- Airline industry financial pressures
- Airport image and passenger expectations





Aviation Sustainability Initiatives

- Industry Initiatives:
 - •Global Reporting Initiative's Airport Operators Sector Supplement
 - Sustainable Aviation Guidance Alliance (SAGA) Database
- Airport Initiatives: Sustainable airport manuals, master plans, and projects at multiple airports
- Airport Cooperative Research Program:
 - •ACRP Synthesis 10: Airport Sustainability Practices
 - •ACRP Project 02-28: Sustainability for Airports: Best Practices, Success Metrics, and Beyond
 - •ACRP Project 02-30: Enhancing the Airport-Industry Database of Sustainable Practices
 - •ACRP Report 42: Sustainable Airport Construction Practices
 - ■2012 ACRP Projects
 - o 02-40: Climate Change Adaptation Planning: Risk Assessment for Airports
 - 0 09-06: Sustainable Practices for Airport Maintenance and Operations



Airports ARE Integrating Sustainability into Planning

- Sustainable Master Plans
 Portland Airport Futures; Ithaca Sustainable Master Plan
- Environmental Management System Denver International Airport
- Stand Alone Sustainability Plans
 San Francisco, Philadelphia, Stewart, Manchester,
- Sustainability Management Systems
 - Los Angeles World Airports, Albuquerque Airports
- Facility Design and Construction Guidelines Chicago SDM/SAM, Port Authority, LAWA, Massport
- Capital Improvement Plans

Seattle-Tacoma International Airport A VISION FOR 2014 AND BEYOND Environmental Strategy Plan 2009







FAA and Sustainability

- National Environmental Policy Act (NEPA)
- FAA Existing and New Programs Noise compatibility (Part 150) <u>http://www.faa.gov/airports/environmental/airport_noise/</u>
- Voluntary Airport Low Emissions (VALE)
 <u>http://www.faa.gov/airprots/environmental/vale/</u>
- Executive Order 13514 (Federal Leadership in Environmental, Energy, and Economic Performance)
- Environmental Management Systems



• Solar Guidance

http://www.faa.gov/airports/environmental/policy_guidance/media/airport_solar_guid e_print.pdf

• Sustainable Master Plan Pilot Program

http://www.faa.gov/airports/environmental/sustainability



FAA Sustainable Plan Pilot Program

Initiated in May 2010

•Goals:

 \checkmark More proactive, holistic approach to sustainable planning

✓ Make sustainability a core airport objective through development of comprehensive plans with measurable goals

 \checkmark Encourage a more holistic approach to sustainability

 \checkmark Help airports achieve the Triple Bottom Line while meeting their operational requirements

 \checkmark Use lessons learned to develop national program guidance

Program participants have 2 years from the date of grant issuance to complete their plans

•10 airports are participating in the program



Participating Airports

Sustainable Master Plans:

Nashville International Airport Newport News/Williamsburg International Airport Newton City-County Airport

Sustainable Management Plans:

Denver International Airport

Fresno Yosemite International Airport Hartsfield-Jackson Atlanta International Airport Newark Liberty International Airport **Outagamie County Regional Airport Renton Municipal Airport Teterboro Airport**



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Lessons Learned

- Participating airports are seeing this as a value-added process.
- Incorporating sustainability into a traditional master plan is a challenge.
- As for stakeholder involvement, airports need to ensure that stakeholders are identified and involved at every stage of the process. This begins at the mission statement stage.
- Including financing options as part of the sustainability plan is crucial.
- Plans that end without a roadmap for moving forward to implementation have less chance for success.
- A monitoring system helps ensure initiatives move forward to implementation so plan doesn't sit on a shelf.







What is Next?

- Sustainable Master Plan Pilot Program:
 - Currently reviewing preliminary plan documentation
 - We are collecting information and lessons learned
 - FAA will use lessons learned to develop national program guidance on airport sustainability
 - FAA solicited input from regions and airports to gauge interest in possible future sustainability grants. Currently reviewing the input.
- Reauthorization sustainability concepts
 - Recycling and environmental management system planning eligible as part of airport master planning
 - Glycol recovery vehicles eligible
 - Zero emissions vehicle pilot
 - Grants for increasing energy efficiency of airport power sources

