

AAAE Airports Going Green Conference

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Sustainability and Climate Action

- Wedge Approach rather than one project
- Worldwide Effort – ranges from “tree huggers” to Goldman Sachs
- Effort to include making changes in energy, water, waste, emissions, etc., to reduce overall footprint.
- Reduce, Reuse, Recycle

We Don't need to Invent the Wheel

- Plethora of Available Plans already created.
How these plans address:
 - What gets measured gets done.
 - What gets rewarded gets repeated.
 - Who is responsible?
 - What is the budget?

Methodologies & Frameworks

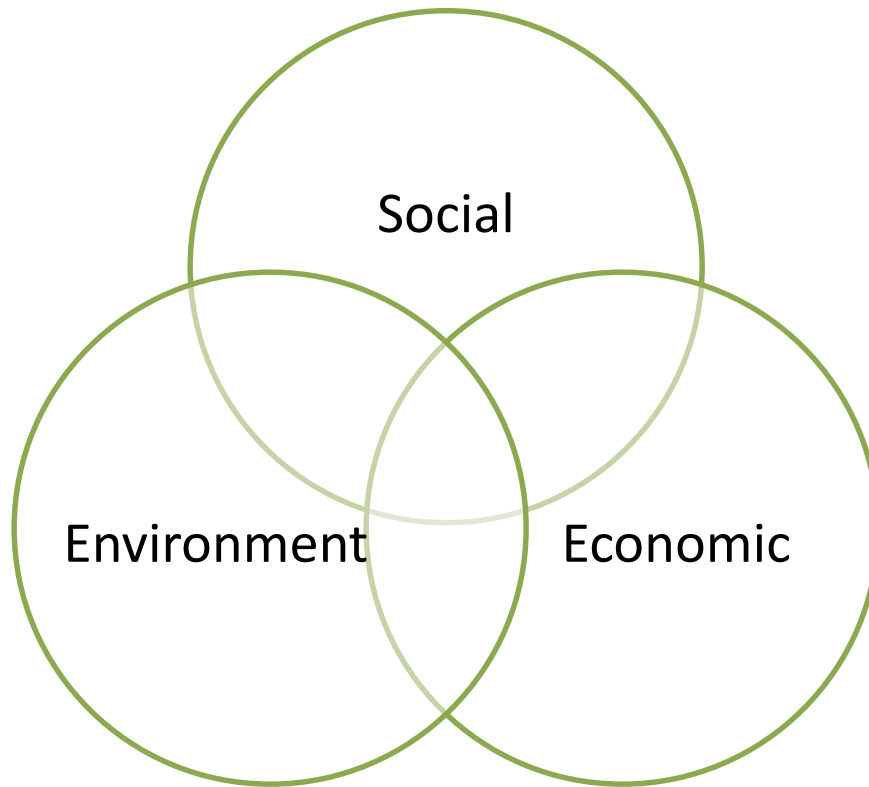
- SAM - Sustainable Airports Manual
- LEED - Leadership in Energy & Environmental Design
- ISO 14000
- GRI - Global Reporting Initiative
- SAGA - Sustainable Aviation Guidance Alliance
- SFO, LAWA, TPA, PDX, CHI, TVL

BHAG – Big Hairy Audacious Goal

- Develop a vision to decide to implement
- Make this community the best it can be
- Top-down driven because this creates the support, funding, endorsement and priority
- Staff is vital to implementation

Triple Bottom Line

- Saves Money and Is Responsible to the Future



Items for us to Consider for Implementation

- Mission and Vision with a view toward Sustainability
- Incorporate Sustainability and Triple Bottom Line into our Strategic Plan as well as in our Decision-Making Process
- Proposed New Employee Job Description
- Liaison to create a Regional Climate Collaborative (San Diego Airport Authority)

FAA –Elliott Black, Director of Airport Planning & Programming

- Energy Efficiency improvements can be AIP eligible
- Noise is the biggest environmental issue at this time; he referred to a “change in the social contract”
- FAA will fund an inventory; if a non-attainment area, can apply to VALE for implementation funds

Headline Items

- EPA is proposing to find that greenhouse gas emissions from aircraft endanger public health under the Clean Air Act.

<https://www.federalregister.gov/articles/2015/07/01/2015-15192/proposed-finding-that-greenhouse-gas-emissions-from-aircraft-cause-or-contribute-to-air-pollution>

- Customers can contribute to carbon offset programs. For example, my flight would have cost an additional \$4.77 to offset 0.397 tons.

<http://www.carbonfootprint.com/offset.aspx?o=0.397&a=r&r=CalcFlight&defra=true>

Headline Items (cont.)

- Aircraft contribute 10.5% of all transport emissions. Worldwide, aircraft contribute 2% of all carbon.
- Any garbage from an international flight is considered medical waste and must be red-bagged and treated.
- Denver International collects 75% of the glycol that they apply, which they said is the highest amount of recovery in the nation.

Case Studies

- ATAG - Air Transport Action Group is a collaborative effort by manufacturers, airports, airlines, ANSP and suppliers.
- IATA – International Air Transport Association is a trade association of world's airlines. Goals:
 - Average improvement in fuel efficiency of 1.5%/year
 - Cap on net carbon emissions from aviation from 2020
 - 50% reduction in net emissions by 2050 relative to 2005 levels

Other Interesting Tidbits

- Walmart projects they will sell 1,000,000 “drones” for Christmas
- Induction Plate for Zero Emission Vehicles embedded in roads
- Fulcrum, based at Reno Industrial Park, will be manufacturing alternative aircraft fuel from landfill waste. United Airline to be using this fuel from Fulcrum’s Paramount facility.