

# Sustainable Aviation Guidance Alliance

Airports Going Green Conference

Chicago, Illinois

SAGA



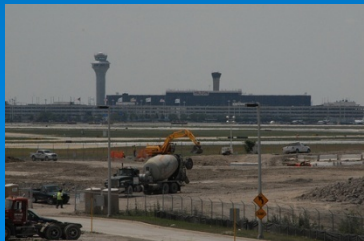
# SAGA Origins

- Requests to industry organizations on how to start a sustainability program
- Airports faced with overwhelming array of sustainability resources
- Desire for airport-specific sustainability guidelines in one place

# SAGA Participants



- Airports Council International-NA (ACI-NA)
- Airport Consultants Council (ACC)
- American Assoc. of Airport Executives (AAAE)
- Air Transport Association (ATA)
- Federal Aviation Administration (FAA)
- Airports – ORD, BOS, RNO, LAWA, POS
- Consultants



# SAGA Working Group Participants

- Katie Choe (BOS)
- Roger Johnson and Intissar Durham (LAWA)
- Rosmarie Andolino, (ORD/OMP)
- Dean Schultz (RNO; AAAE Environmental Chair) and Todd Welty
- Burr Stewart (Port of Seattle; TRB Sustainability Subcommittee Chair)
- Julie Unland (FAA)
- Tim Pohle, Kevin Welsh (ATA)
- Jessica Steinhilber , Paul Eubanks (ACI-NA)
- T.J. Schulz (ACC)
- Leslie Riegle(AAAE)
- Gene Peters (Ricondo, ACI Sustainability Subcommittee)
- Kristin Lemaster (CDM; AAAE Sustainability Issue Tracker)
- Carol Lurie (VHB; ACC Board member)
- Eric Dillinger (Jacobs)
- Mary Vigilante (Synergy Consultants)

# SAGA Goal

- Assist airports initiating or conducting sustainability programs by consolidating existing guidelines/practices into a comprehensive, searchable resource that can be tailored to the unique requirements of individual airports
  - Applicable to airports of all sizes
  - Encompassing all activities – capital improvement programs, routine maintenance, and daily operations

# Section I - Introduction

- Provides introduction to sustainability at airports
- Rationale for undertaking a sustainability program
- Definition – provide a range of options for defining sustainability
- Disclaimer – this does not supersede other standards such as LEED®. This is meant to augment other resources

# Section II - How to Start, Implement, Sustain and Maintain a Program

- Establish Vision and Strategic Goals
- Conduct Assessment
- Identify & Rank Opportunities
- Refine Goals
- Select Actions & Set Targets
- Develop Action & Monitoring Plans
- Implement Initiatives
- Monitor Performance
- Communicate Progress



# Section III – Sustainability Spreadsheet

- Comprehensive, searchable listing of existing sustainability practices undertaken by airports
- Organized by broad range of criteria:

- **Activities**

- Planning
- Design
- Construction
- Operations
- Maintenance
- Administration

- **EONS**

- Economic Viability
- Operations Efficiency
- Natural Resources
- Social Responsibility

- **Functional Areas**

- Landside
- Airside
- Airport-wide

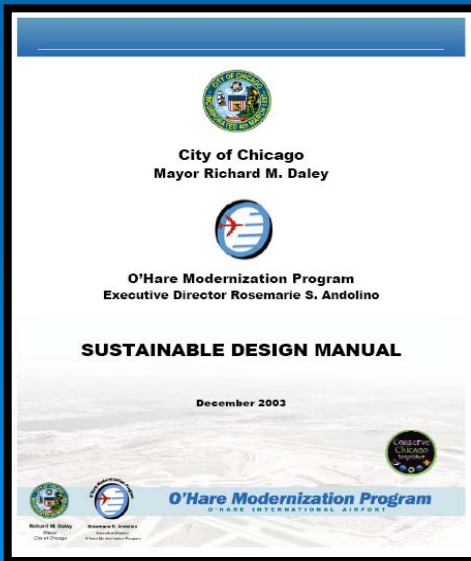




# SAGA Sustainability Spreadsheet

## Sustainable Measures from:

- Leading Airports
- Industry Experts
- Professional Organizations, including:
  - ACI, USGBC, ACRP



*O'Hare Sustainable Design Manual*

LEGEND	
	= Airports Council International (ACI) / Ricondo & Associates, Inc. (R&A) Index Sustainable Initiative
	= Los Angeles World Airports (LAWA) Initiative
	= O'Hare International Airport (ORD) Sustainable Design Manual Initiative
	= Boston-Logan International Airport (BOS) and/or Philadelphia International Airport (PHL) Initiative
	= San Francisco International Airport (SFO) Initiative
	= Seattle-Tacoma International Airport (SEA) Initiative
	= Denver International Airport (DIA) Initiative
	= Albany International Airport (ALB) Initiative
	= Leadership in Energy and Environmental Design (LEED) Initiative
	= Vancouver International Airport (YVR) Initiative
	= New Chitose Airport (CTS) (Hokkaido, Japan) Initiative
	= ACRP Synthesis 10: Airport Sustainability Practices

Developed with input from all SAGA members:

- Airports Council International
- Ricondo & Associates, Inc.

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# SAGA Sustainability Spreadsheet

Over 100  
Organizational  
Columns



	<u>Measure</u>	<u>Activity</u>					<u>Functional Area</u>				
		Planning & Design	Const- ruction	Operations	Maint.	Admin.	Landside				
							Gate Areas	Offices	Concessions	Retail	Fa
364	Install a motor efficiency controller (such as those made by EcoStart™) in escalators and automated people movers/moving walkways to reduce energy consumption (on-demand usage).	✓			✓		✓				
369	Install motion sensors in stairs, toilets, & storage rooms.	✓		✓			✓	✓	✓	✓	
370	Install large revolving doors to create an air lock and reduce heat transfer.	✓					✓	✓		✓	
372	Install efficient next-generation hand dryers.	✓		✓			✓	✓	✓	✓	
374	Group flights in a certain part of the concourse during nonpeak hours, allowing the airport to shut off air-conditioning and lighting	✓		✓			✓				
378	Use LED "exit" signs in buildings.	✓					✓	✓	✓	✓	
385	Implement non-electrified snowmelt procedures, including Hydronic runway pavement for snowmelt and Epoxy overcoat with glycol for controlling snow.	✓									
418	Showcase the airport as a demonstration/commercialization launch pad for alternative energy technologies and products via marketing and press relations.					✓					
419	Use collected snow to chill the liquid used in the airport's cooling system in the summer. Cover the snow with insulation materials, which can typically retain about 45% of the snow.	✓									

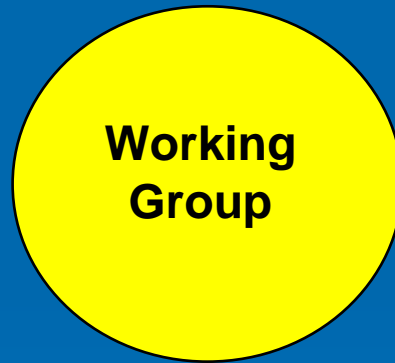


Over 890  
Measures

SAGA



# SAGA Process

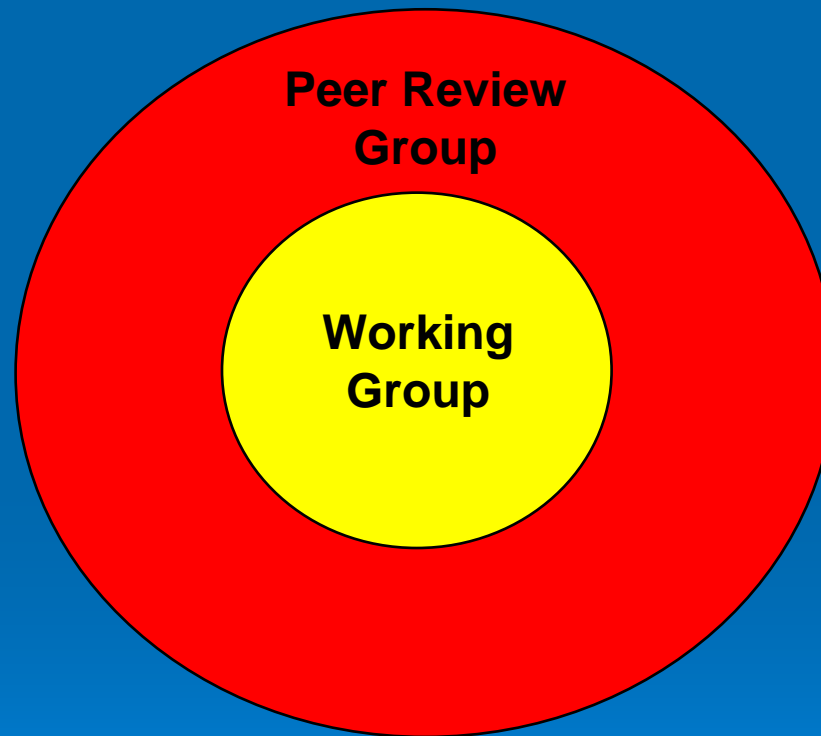


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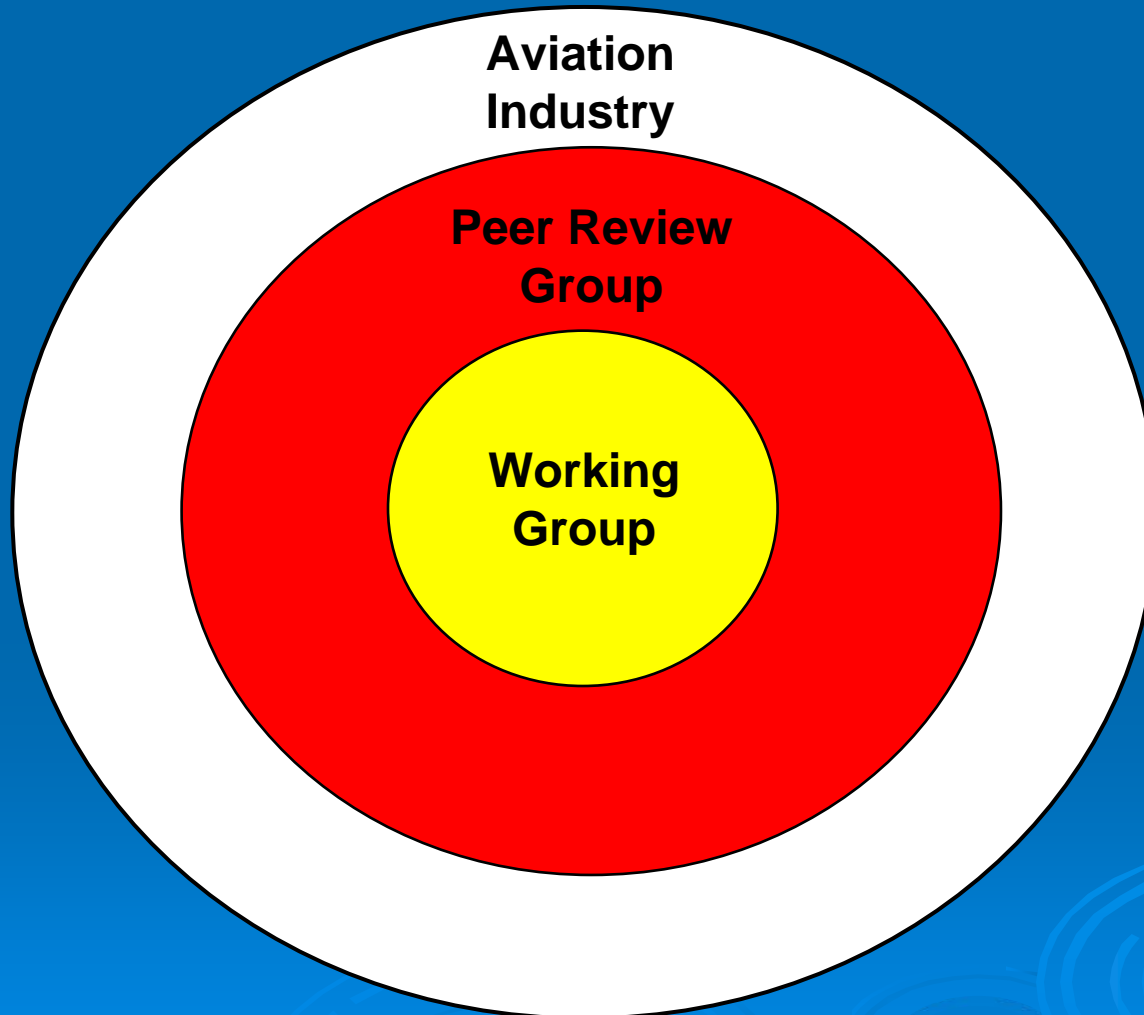


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# SAGA Process



# SAGA Process



# SAGA Process

- Comments solicited from the SAGA Peer Review Group
- Feedback
  - Section I – Provide more guidance on definition of sustainability
  - Section II – Ensure process is scalable to smaller airports
  - Section III – Repetition and ease of use
  - Updates
- Launch Date – October, 2009 at ACI

# SAGA Next Steps – Longer Term

- Explore using the ACRP process to perform gap analyses and research specific best practices; identify metrics
- Produce a short “Sustainability at Airports Guidebook”
- Explore third party verification
- Identify ways to keep the sustainability guidelines updated



# For more information

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- Paul Eubanks – [peubanks@aci-na.org](mailto:peubanks@aci-na.org)
- TJ Schulz – [tjs@acconline.org](mailto:tjs@acconline.org)