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THE **VOICE** OF AIRPORTS®



**AIRPORT ELECTRICITY
 MANAGEMENT SYMPOSIUM**

December 5 - 7, 2023 // Denver, CO

Thanks to Our Symposium Sponsors



Agenda

Tuesday, December 5, 2023

- | | |
|--|---|
| 8:00 AM – 4:00 PM
<i>Grove Foyer</i> | Registration |
| 8:00 AM – 9:00 AM
<i>Grove Foyer</i> | Networking Breakfast |
| 9:00 AM – 9:15 AM
<i>Grove Ballroom</i> | Welcome & Opening Remarks
Welcome to Colorado and ACI-NA's first ever Airport Electricity Management Symposium!
We will open with remarks from Front Range airport leaders Phil Washington and Greg Phillips, setting the stage for the importance of electricity management to airports.

Speakers: Greg Phillips, Director of Aviation, Colorado Springs Airport
Phillip Washington, Chief Executive Officer, Denver International Airport |



9:15 AM – 10:30 AM
Grove Ballroom

Session #1: Airport Electricity Management— What, Where, Why, and Especially How

The symposium will begin with foundational knowledge that builds the base for the discussions throughout the rest of the conference. We will establish a vocabulary and look at how the conversations about electricity fit into assorted aviation goals from the Federal to State, to local levels, from Net Zero to resiliency to sustainability. We will also talk about why electricity has been identified as the critical path for so many of these goals, and how airport professionals might begin to understand future needs and what that really means for airports.

Moderator: Corey Johnson, Director-Aviation Sustainability, C&S Companies

Speakers: Amy Nagengast, Energy Program Manager, San Francisco International Airport

David Robbins, Director, Infrastructure/Resiliency, Houston Airports System

David Smith, Director of Energy Services, Burns Engineering

10:30 AM – 11:00 AM
Grove Foyer

Morning Networking Break

11:00 AM – 12:00 PM
Grove Ballroom

Session #2: Energy Management: A Perspective from Non-Aviation Industries

With an eye towards lessons that may be applicable in the airport setting, this session will provide an overview of efforts from across other industries, such as maritime, campuses (medical, universities, hospitals), cargo delivery, and DoD.

Moderator: Neal Wolfe, Principal Associate, ESA

Speakers: Thomas Bozada Research Scientist—Engineer Research and Development Center (ERDC), U.S. Army Corps of Engineers

Patrick Eddy, Market Sector Leader, Energy & Power, Jacobs

Christine Weydig, Vice President of Transportation, Alphastruxure

12:00 PM – 1:15 PM
Grove Foyer

Networking Lunch

1:15 PM – 2:30 PM
Grove Ballroom

Session #3: Energy Management Technologies Overview

This session will look at the evolution of technologies that require electricity, such as Central Utility Plants. We will also touch on other future alternative fuels, such as hydrogen. We will talk about generation technologies, including renewables, as well as the particularly key area of energy storage.

Moderator: Sarah Keane, Attorney, Kaplan Kirsch & Rockwell

Speakers: Stephen Christensen, Ph.D., Manager of Planning & Technology Assessment, Xcel Energy

Sean Conboy, Energy Manager, Denver International Airport

Cogan Semler, Energy and Water Manager, San Diego County Regional Airport Authority



2:30 PM – 3:30 PM
Grove Ballroom

Session #4: Communications/Working Across the Disciplines

Solving the electricity challenges at airports requires finding language and priorities that work for all stakeholders, ranging from airport staff working in sustainability, facilities, legal, commercial management, as well as the C-suite, to the public, tenants, local lawmakers, and electricity providers. This session will discuss finding that common language, and how to communicate across the disciplines to ensure high performance of operational issues and asset management. We will also touch on the essential elements of working with municipalities, from understanding local plans and land-use planning to energy generation plans.

Moderators: Alex Chapman, Director – ESG, Vantage Airport Group
John Trendowski, Senior Principal, C&S Companies

Speakers: Kenley Farmer, Director, Environmental Affairs, A4A
Katie Lamond, Manager of Aviation Environmental Programs, The Port Authority of New York & New Jersey
Art Spillman, Senior Manager Facilities, Assets, & Infrastructure, Port of Portland

3:30 PM – 4:00 PM
Grove Foyer

Afternoon Networking Break

4:00 PM – 5:00 PM
Grove Ballroom

Session #5: Identifying the Full Picture of an Airport's Electric Load

To plan for future electricity demand, an airport needs to be able to forecast the anticipated needs. This session will look at the anticipated demands from sources such as electric vehicles (rental cars, shuttle buses), airlines (eGSE), terminals (central utility plants/boilers, concourses/ building systems), and more.

Moderator: Chad Reese, Environmental Affairs Manager, Planning & Environmental Affairs, San Diego County Regional Airport Authority

Speakers: Scott Anderson, Vice President-Operations, ConRac Solutions
Katy Glynn, Senior Account Executive, Siemens
Ben Moore, Sustainability Leader, RS&H
Cogan Semler, Energy and Water Manager, San Diego County Regional Airport Authority

5:30 PM – 6:45 PM
Grove Foyer

Evening Networking Reception



Wednesday, December 6, 2023

8:00 AM – 4:00 PM
Grove Foyer

Registration

8:00 AM – 9:00 AM
Grove Foyer

Networking Breakfast

9:00 AM – 10:15 AM
Grove Ballroom

Session #6: Utility & Power: Where and When

The sessions on Tuesday will have set the stage for understanding airport future electricity demands. When an airport has that knowledge, a key step is working with the utilities, as well as understanding the key regional characteristics. This session will look at best practices for working with utilities, how to talk about infrastructure issues, funding considerations, and understanding timelines – including when planning to meet the future needs of vehicles and technologies that do not yet exist.

Moderator: Justin Smith, Associate, Hennebery Eddy Architects, Inc.

Speakers: Connie Paoletti, Director of Transportation Strategy & Delivery, Electric Distribution Operations, Xcel Energy

Andrea Price, Energy Manager, Vancouver Airport Authority

Leilani Ventura, Strategic Account Advisor, Sacramento Municipal Utility District

10:15 AM – 10:45 AM
Grove Foyer

Morning Networking Break

10:45 AM – 12:00 PM
Grove Ballroom

Session #7: Strategic Approaches

What are the key elements of an Electricity Master Plan? What do Energy Managers do at airports? How does an airport either develop or buy the deep technical capabilities that will be required as electricity supplies become increasingly critical? This session will look at those questions, as well as the strategies to manage the infrastructure that an airport currently has, understanding capacity studies, phasing approaches, and the magnitude and uncertainty of the challenges. We will also look at funding options and strategies, such as energy performance service contracts.

Moderator: Todd Ernst, Director Aviation, Infrastructure, Energy & Environment, Greater Toronto Airports Authority

Speakers: Scott Cary, Ports and Airports Project Manager, National Renewable Energy Laboratory (NREL)

Ariel Bautista, Director E-Mobility, Alectra Inc.

Amy Nagengast, Energy Program Manager, San Francisco International Airport

David Robbins, Director, Infrastructure/Resiliency, Houston Airports System

12:00 PM – 1:15 PM
Grove Foyer

Networking Lunch



1:15 PM – 2:30 PM
Grove Ballroom

Session #8: Electricity Management Case Studies—Microgrids

Join us for a deep dive into the technology, management, and policy issues associated with airport microgrids.

Moderator: Brandon Rattiner, Attorney, Kaplan Kirsch & Rockwell

Speakers: Jessica Lau, Grid Storage and Emerging Technologies Manager, Xcel Energy

David Smith, Director of Energy Services, Burns Engineering

Gerry Vurciaga, Innovation Executive, Siemens

Christine Weydig, Vice President of Transportation, Alphastruxure

2:30 PM – 3:00 PM
Grove Foyer

Afternoon Networking Break

3:00 PM – 4:15 PM
Grove Ballroom

Session #9: Electricity Management Case Studies—Electric Vehicles

Panelists will share lessons learned and challenges airports are facing with respect to accommodating electric vehicles on airport property, particularly regarding landside EV facility and operational requirements.

Moderator: Peter Aarons, Aviation Sector Leader - Americas | Sr. Vice President - Global Infrastructure, TYLin

Speakers: Scott Anderson, Vice President-Operations, ConRac Solutions

Aaron Galinis, Senior Airport Planner, Hollywood Burbank Airport

Cabell Hodge, Federal Fleet Team Leader, National Renewable Energy Laboratory

Scott Morrissey, Senior Vice President-Sustainability, Denver International Airport

Huma Seth, Director-Clean Transportation, Clean Energy and Transportation Solutions, Xcel Energy



Thursday, December 7, 2023

8:00 AM – 11:00 AM **Registration**
Grove Foyer

8:00 AM – 9:00 AM **Networking Breakfast**
Grove Foyer

9:00 AM – 10:15 AM **Session #10: Energy Management Decision-Making/Capital Programming**
Grove Ballroom
Figuring out how to meet future electricity demand will require airports to thoughtfully balance O&M needs and capital investment, as well as strategically prioritize projects. This session will look at those topics, as well others including Total Cost of Ownership, and a range of funding considerations, such as P3 opportunities, revolving funds, and non-federal funding opportunities.

Moderator: Chad Reese, Environmental Affairs Manager, Planning & Environmental Affairs, San Diego County Regional Airport Authority

Speakers: Alex Chapman, Director – ESG, Vantage Airport Group
Cullen Choi, Director of Facility Design and Construction, Denver International Airport
Susan Fizzell, Senior Aviation Project Manager, Oakland International Airport, Port of Oakland

10:15 AM – 10:45 AM **Morning Networking Break**
Grove Foyer

10:45 AM – 11:45 AM **Session #11: Policy & Regulatory Focus—Bring Lawyers, Lobbyists, and Money?**
Grove Ballroom
In this concluding session, we will look at some of the legal and regulatory issues associated with airport electricity initiatives, including what steps are needed so that airports (depending on the state or province) do not inadvertently cross into being considered a regulated electricity-providing utility. We will also discuss how federal funding affects these issues.

Moderator: David Smith, Director of Energy Services, Burns Engineering

Speakers: Alex Chapman, Director – ESG, Vantage Airport Group
Sarah Keane, Attorney, Kaplan Kirsch & Rockwell
Amanda La Joie, Director, Government and Political Affairs, ACI-NA
Daniel Markind, Attorney, Flaster Greenberg
Alan Strasser, Environmental Protection Specialist, FAA (via Zoom)

11:45 AM – 12:00 PM **Concluding Remarks**
Grove Ballroom

12:00 PM – 1:00 PM **Lunch (Grab and Go Lunches Available)**
Grove Ballroom