

CELEBRATING 50-YEARS OF EARTH DAY
ENVIRONMENTAL AFFAIRS COMMITTEE, ACI-NA

Webinar Ground Rules

- Webinar participants are muted for the call to minimize background noise
- You can still interact with the panel through the WebEX questions panel--please type your questions there

Participating Airports

- SFO
- PIT
- DTW
- TPA
- ATL
- YTZ
- PDX
- SFO – 2
- SNA
- SMF
- SAN
- YVR
- LAX
- OAK
- SEA
- JAC
- PHL
- DAL
- BWI
- IND
- SFO-3
- Good Traveler

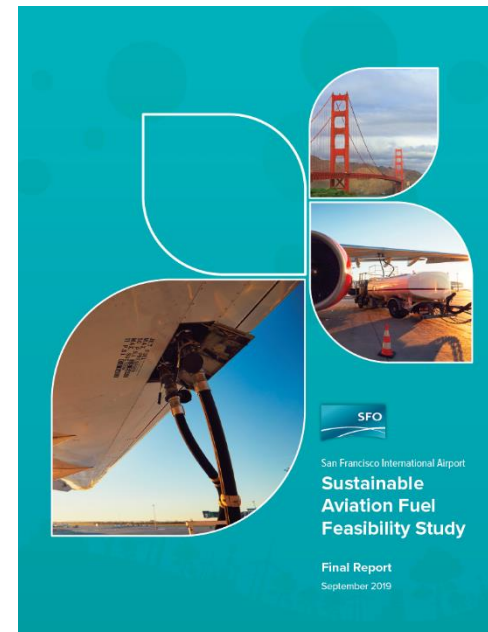
Sustainable Aviation Fuel

Stakeholder Engagement

- SFO
- Convened 150 Member Interdisciplinary SAF Stakeholder Working Group and Delegation. Delivered SAF inclusion in LCFS, SAF Technical Study and CA Statewide SAF Action Plan.
- Carbon Neutrality
- Contact:

Erin Cooke, Sustainability & Environmental Policy Director
erin.cooke@flysfo.com

<https://www.flysfo.com/environment/sustainable-aviation-fuel>



Oh Bee Hive!

- Pittsburgh International Airport
- PIT and its beekeeper have been busy little bees!
- Natural Resources
- Kevin A. Gurchak
- kgurchak@flypittsburgh.com
- Read more from [Blue Sky News](#)



Arbor Day @ Crosswinds Marsh

- Detroit Metropolitan Airport
- WCAA typically hosts an annual environmental field day for local middle school students with Wayne County Parks at our wetland mitigation park.
- Community Outreach
- Sara Kaplan
 - Sara.Kaplan@wcaa.us
- <https://www.metroairport.com/business/environment-sustainability/sustainability/people>



Bike-Friendly Business Certification

- TPA
- TPA named first bike-friendly Airport in the United States
- Sustainability
- Justin Smith
 - jwsmith@tampaairport.com
- <https://news.tampaairport.com/tpa-named-first-bike-friendly-airport-in-the-united-states/>



Food Recovery, PARKATL, LEED for Communities

→ Hartsfield-Jackson Atlanta International Airport (ATL)

→ Andrew Jones

- Andrew.jones@atl.com



PARKATL WEST DECK



Tracking for Silver level Certification

- Energy efficient lighting
- EV charging stations
- 100% Electric Parking fleet vehicles
- Emission Reduction Wayfinding System
- Bicycle parking and trail connectivity



PARKATL SELECT

COMPLETION: MARCH 2020

- Green infrastructure bioswales
- 30 EV charging stations
- Silver LEED Building



Food Recovery Program



First Airport in the world to receive LEED for Communities Certification

Billy Bishop Toronto City Airport Master Plan

Climate Action

- The first of its kind in Canada, the Airport Ferry is being retrofitted to all electric with zero air and noise emissions, which **will reduce GHG emissions by 530 metric tonnes in 2021.**
- Due to high water levels, a Climate Change and Extreme Weather Vulnerability Assessment concluded that **the airport's infrastructure is resilient to the current/projected climate effects.**
- Collaborated with NAV CANADA to implement a modern aircraft procedure type known as Required Navigation Performance, which **has reduced GHG emissions by 973 metric tonnes.**
- **Studies being undertaken to reduce/mitigate climate impacts** include: Ground Noise Impacts & Mitigation, Stormwater & Glycol Containment Review, and an Air Quality Exposure Study.
- Annual Airport Sustainability Report - **carbon reduction target of 35% below 2015 levels by 2035**

Contact: Mike Karsseboom, mkarsseboom@porttoronto.com

To Learn more go to: <https://www.porttoronto.com/airport/business-information/billy-bishop-airport-master-plan.aspx>



PDX Parking Additions and Consolidated Rental Car Facility (PACR) Embodied Carbon Reduction

- Portland International Airport
- Used CarbonCure technology for pile caps, grade beams and parking decks to reduce the carbon footprint by 548,000 kg
- Climate Footprint Reduction
- Jamey Berg
 - jamey.berg@portofportland.com
- <https://www.carboncure.com/technology>



Airfield Operations Facility

First Airport Zero Net Energy Certified Building

- SFO
- High performance, 24hr essential facility completed in 2014 that operates energy neutral using ongoing commissioning and an on-site 136 kW solar array.
- Zero Net Energy

Amy Nagengast, Energy Program Manager
Amy.Nagengast@flysfo.com

<https://www.flysfo.com/about-sfo/awards/sfo-earns-environmental-award-world%E2%80%99s-first-zero-net-energy-airport-facility>



SNA: Central Utility Plant

- Sustainability: Resiliency, Energy and Water Conservation
- Project Team:
Airport: Melinda McCoy, PG
mmccoy@ocair.com
Consultant: Robert Romansik
robert.romansik@woodplc.com



Water conservation:

- Central utility plant represents over 50 percent of water usage at SNA
- Adding an electrochemical water treatment system to cooling water
- This will save a projected 2.5 million gallons annually (15-20 percent reduction)

Energy conservation:

- 7 MW rated natural gas Central Utility Plant started operation in 2011
- Adding a 1.9 MW solar system on a parking garage
- Adding an 8.8 MW lithium ion battery storage system to support optimization

SMF 7.9 MW Solar Facility

- Sacramento International Airport
- The facility supplies ~38% of the total electricity used by the airport.
- Renewable Energy
- Bree Taylor
 - taylorbr@saccounty.net



Battery Energy Storage System

San Diego International Airport

- 2 MW / 4MWh
- Strategic Energy
- Chad Reese
 - creese@san.org
- san.org/green



YVR's Green energy system

- Vancouver Airport Authority
- GeoExchange Energy Plant
- Fossil free energy
- Wendy Avis
 - wendy_avis@yvr.ca
- yvr.ca/environment



LAX Ground Support Equipment Emissions Reduction Policy

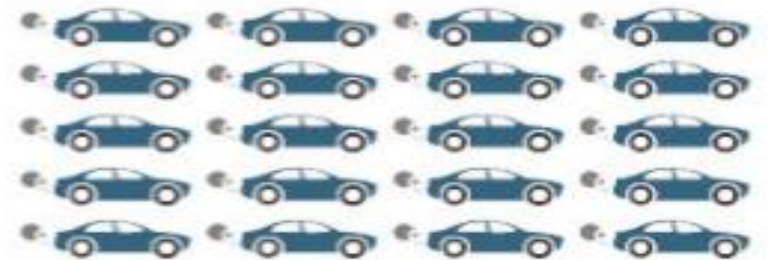
- Los Angeles International
- Sets fleet-wide emissions standards for GSE fleets; adopted in 2015, updated 2019
- Air Quality
- Rep
 - TMcCrossen-Orr@lawa.org
- www.laxsustainability.com

The 2031 airport wide Ground Support Equipment (GSE) target will save 1.6 g/bhp over the current GSE policy



Equivalent to removing approximately

200,000 passenger vehicles daily

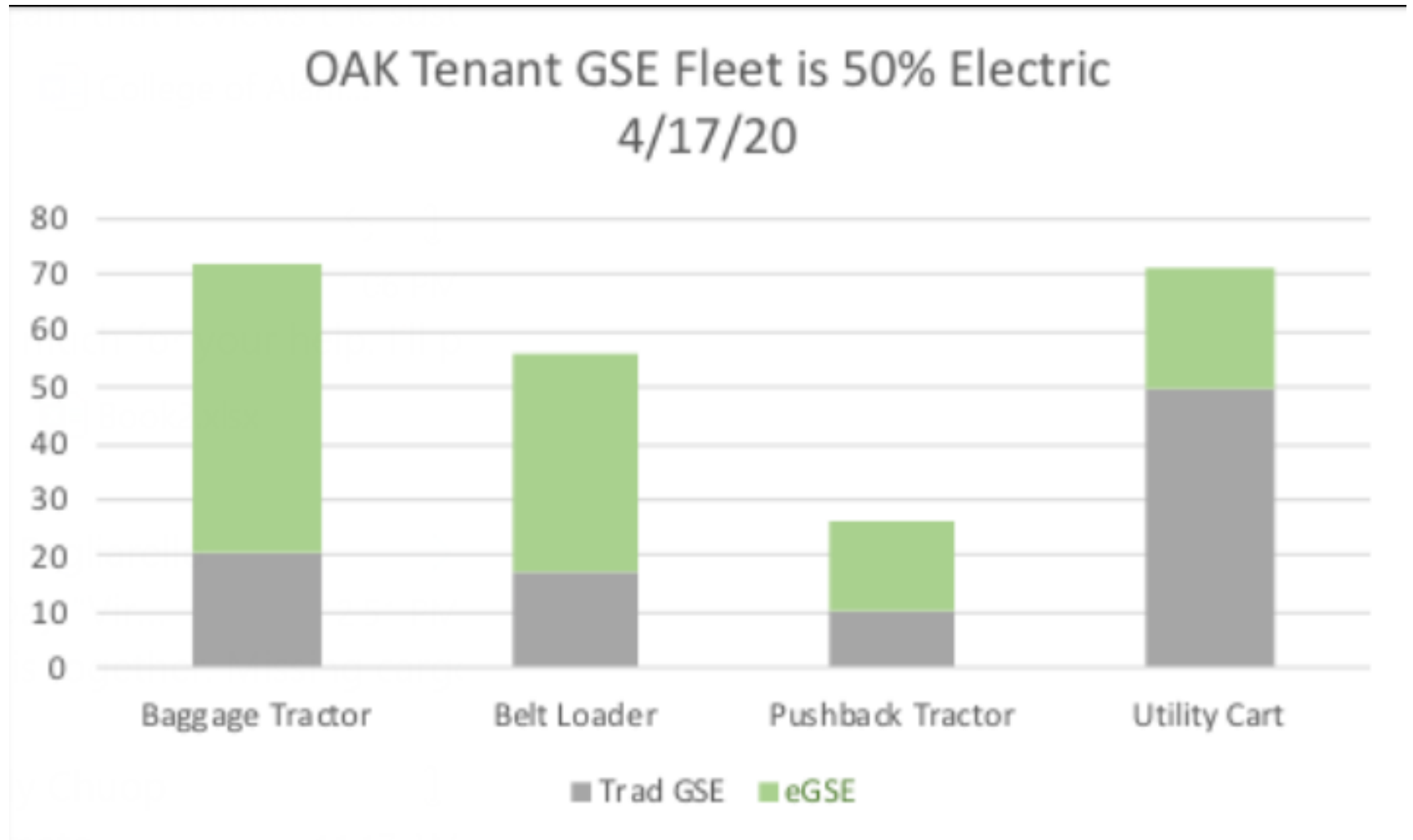


ZE Infrastructure

- OAK
- New Capital Improvements allow for ZE infrastructure at all gates (eGSE, PCA & 400Hz)
- Clean Air
- Contacts:
 - Susan Fizzell, Senior Aviation Planner sfizzell@portoakland.com
 - Colleen Liang, Port Env Supervisor Cliang@portoakland.com



OAK ZE Infrastructure



Thermal RNG = 50% GHG reduction

- Seattle-Tacoma Int'l
- RNG contract for thermal and transpo to reduce GHG by 50%
- Rep
 - Meyn.S@portseattle.org
- <https://bit.ly/3bbucl8>



Stormwater Filtration System

- Jackson Hole Airport
- A partnership program to install a 100-year storm event filtration system.
- Water Quality
- Dustin Havel
 - Dustin.havel@jhairport.org
 - <https://www.youtube.com/watch?v=CtLX8G4Cw0c>



Fort Mifflin Sound Insulation

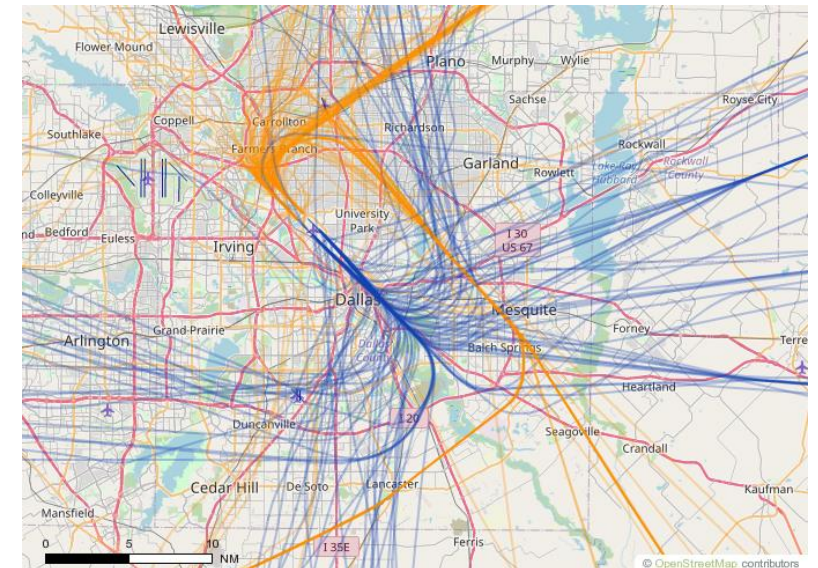
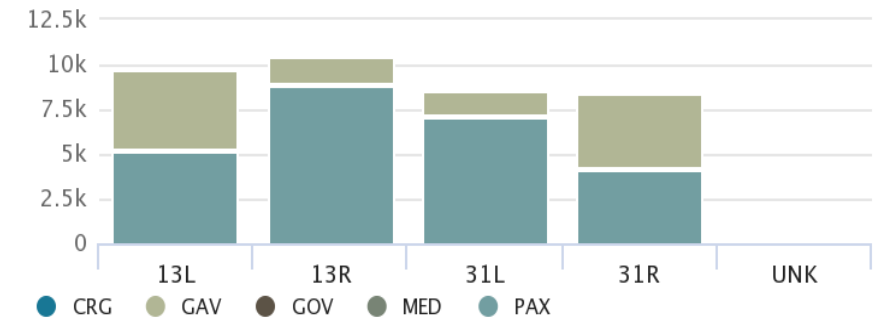
- Philadelphia International Airport
- Being a Good Neighbor and Preserving Philadelphia's History
- Noise
- Danielle Buehler
 - danielle.buehler@phl.org



Voluntary Noise Control Program

- Dallas Love Field
- Here at Dallas Love Field, we work with *Casper Solutions* to constantly improve our Noise Program with tools like the R/T Server, Flight Tracker & Noise Lab.
- Community Outreach
- Isaac Ellison
 - Isaac.Ellison@dallascityhall.com
- <https://dal.noiselab.casper.aero/>

RUNWAY UTILIZATION BY AIRLINE TYPE



Continuous Improvement and Environmental Stewardship Through Use of an ISO 14001- Based Environmental Management System (EMS)



→ EMS Policy & Implementation

Our Commitment to Protecting the Airport's Environment

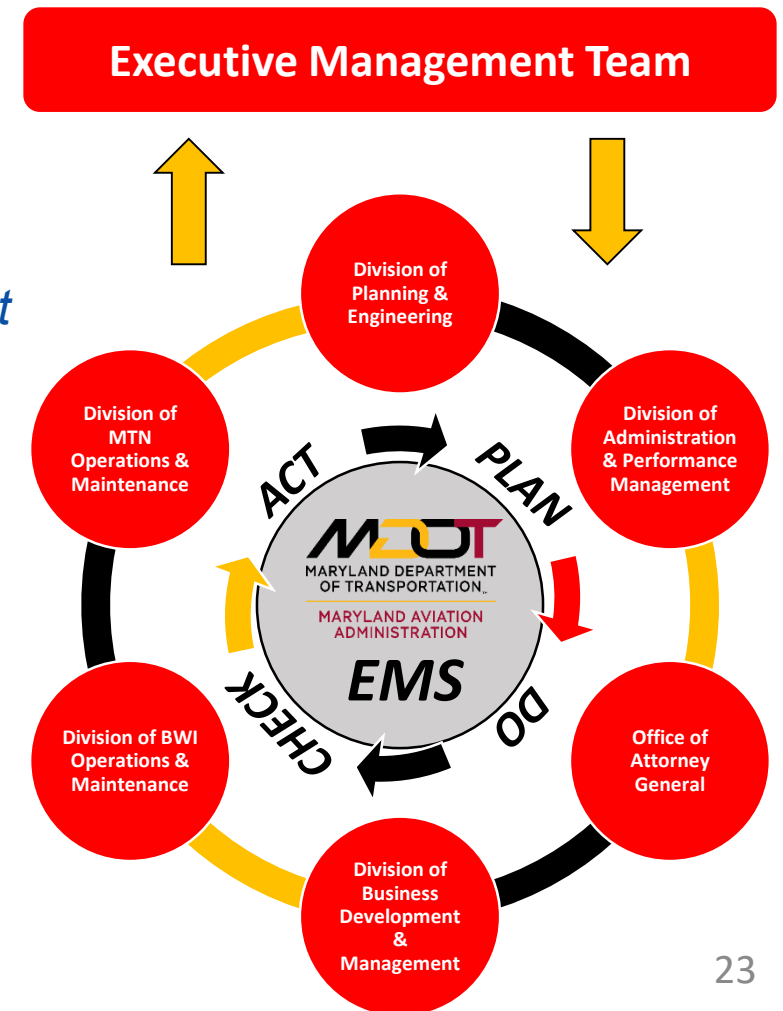
- Proactive environmental risk management, pollution control, continuous improvement in environmental performance at all levels ~ and strong partnership with our internal and external stakeholders.

→ Proactive Program Management

→ For more information contact:



Darline Terrell-Tyson, Deputy Director
Office of Environmental Services
MDOT – Maryland Aviation Administration
DTerrell-Tyson@bwiairport.com



Dynamic Toolkit

- Indianapolis International Airport
- Multi-use toolkit driven by IAA priorities
 - Enables project monitoring and correlates to priority rating systems
- Design & Construction
- Todd Cavender
 - tcavender@ind.com
- <https://www.ind.com/community/sustainability>



The screenshot shows the IAA Sustainability Toolkit interface. At the top, there are navigation icons for various sustainability topics. Below that, the 'IAA Sustainability Toolkit' header is visible. The main content area is divided into several sections:

- Project Details:** A table showing project information: Project Name (Taxiway Reconstruction), Project Type (Airfield), Sustainability Lead (John Smith), Rating System Being Pursued (Envision), and Project Description (A taxiway reconstruction project).
- Status of Relevant Strategies:** A pie chart showing the status of 68 total relevant strategies: Pursuing (14), Not Pursuing (18), Completed (3), and No Status (33).
- Status of Relevant Strategies by Category:** A stacked bar chart showing the status of strategies across five categories: Project Planning, Outreach & Engagement, Design, Contractor Activities, and Operations.
- Rating Systems Relevant to Selected Project Type:** A table showing the relevance of different rating systems to the selected project type (Envision):

Rating System	Relevance
Envision	Yes
LEED BD + C	No
LEED O+M	No

Zero Waste Concessions

Plastic-Free Water Bottles & Foodware

- SFO
- Initiated in 2019, SFO prohibits the sale of single-use water plastic bottles, foodware and foodware accessories.

→ Zero Waste

→ Contact:

Joanne Yee, Zero Waste Specialist
joanne.f.yee@flysfo.com

<https://www.flysfo.com/environment/zero-waste>



The Good Traveler

- San Diego International Airport
- 17 partner airports have offset over 83,000 mt of emissions (more than 534 million miles traveled).
- Air Quality & Emissions
- Adam Klauber or Nancy Bsales
 - info@thegoodtraveler.org
- <https://thegoodtraveler.org/>



→ Photo credit: Paula Morreale

DISCUSSION

Environmental Committee
Earth Day 2020



YHZ (Halifax) Carbon Management Plan

- ➔ A goal was set to reduce emissions by 20% or 4045 tonnes of CO₂e compared to 2012 baseline by 2025
- ➔ The goal was achieved six years ahead of schedule in 2019
- ➔ Airfield and parkade LED lighting projects were large contributors

