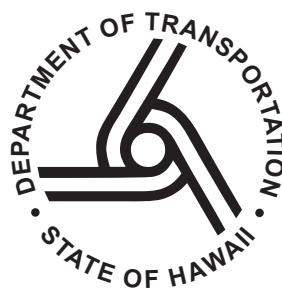
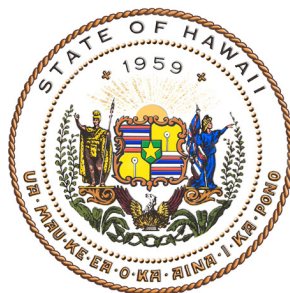




sustainable**HNL**

Annual Report for 2018

Reporting sustainability progress at
Daniel K. Inouye International Airport



Published 2019



A MESSAGE FROM THE AIRPORT MANAGER

Aloha!

The Daniel K. Inouye International Airport sustainability initiative, known as Sustainable HNL (sHNL) is led by the Oahu Airports District Manager and supported by the diverse and dynamic HNL Sustainability Committee. The Committee accomplished several noteworthy sustainability measures in 2018:

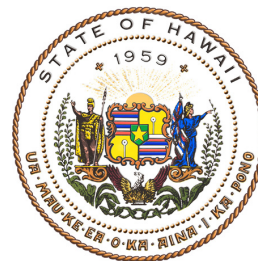
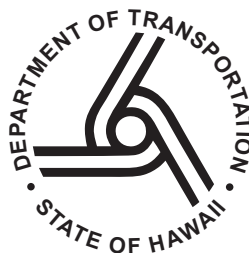
- Reduced airport-wide energy consumption by 10% per passenger (measured in kWh) from 2017. From 2015 to 2018, the airport reduced electricity costs by 41%, which have saved millions of dollars on electricity bills.
- Savings primarily due to an energy savings performance contract with Johnson Controls Inc, using lighting upgrades, solar panels, HVAC upgrades, and building automation.
 - Phase 2 of the Energy Savings Performance Contract started in 2017, with more solar panels and lighting upgrades expected to save millions of dollars for the airport.
- Compiled a greenhouse gas emissions inventory for HNL, and received Airport Carbon Accreditation from the Airports Council International.
- Achieved Level 2 Accreditation (Reduction) by reducing the emissions from airport controlled operations within the operational boundary of the airport by 5% from 2017.
- We held four airport cleanup events; two FOD Walks and two Recycle Drives. The FOD Walk event sends volunteers onto the Airport Operations Area to pickup debris and contribute to airport safety. After the cleanup they receive donated food and sponsored raffle prizes.

We have been making big and small improvements to the airport with the goal of sustainability guiding the decisions. We want to be able to sustain our way of doing business without compromising the ability of future generations to conduct airport business.

Sincerely,



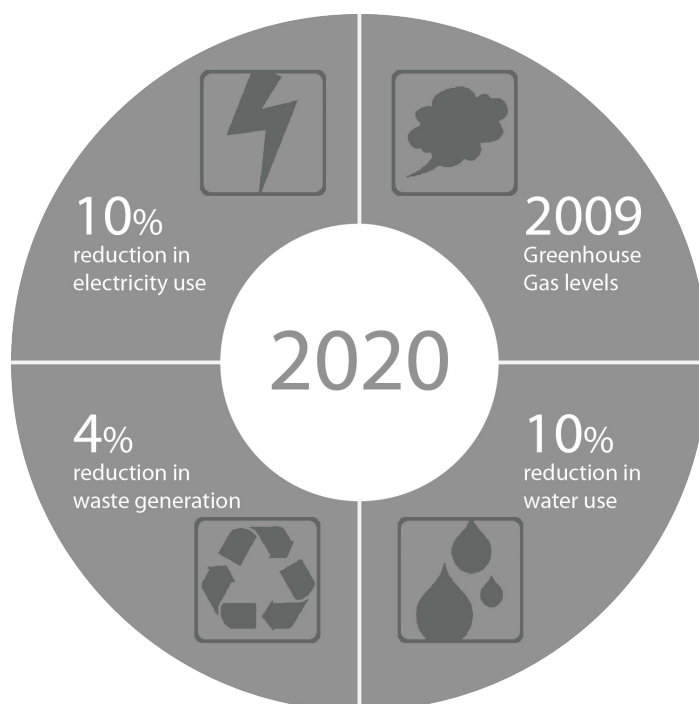
Roy K. Sakata
Oahu Airports District Manager
State of Hawai'i Department of Transportation



SUSTAINABILITY GOALS AND TARGETS

GOALS

✈ HNL is guided by the Sustainable Management Plan which set goals for 4 priority categories.



TARGETS

✈ The goals have specific targets for 2020 and are tracked on an annual basis.

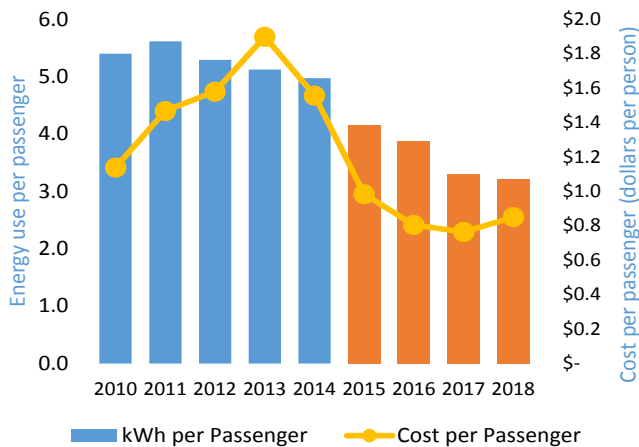
CATEGORY	INDICATOR	BASE LINE	2020 TARGET	ANNUAL	PROGRESS
ENERGY	kWh / passenger	5.0	4.5	3.2	Exceeding
CARBON	lbs. CO ² / passenger	10.6	9.5	5.8	Exceeding
WATER	gal. / passenger	22.0	19.8	20.4	In Progress
WASTE	waste diversion rate	0.9%	4%	1.0%	In Progress

SUSTAINABILITY HIGHLIGHTS



ENERGY

Energy Consumption and Cost per Passenger
(2009-2018)

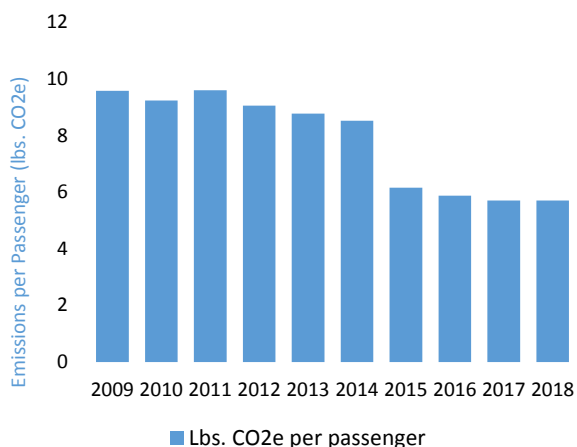


- ✈ The chart to the left overlaps energy consumption with cost for comparison. It shows how energy use (blue & orange bars) and energy costs (yellow) have decreased since 2014. The orange bars show the years since energy savings began.
- ✈ Decreased energy consumption by **11%** from 2017 due to various **renewable energy, conservation, and efficiency** projects completed in 2015.
- ✈ Thousands of on-site solar PV panels generated **2.4%** of HNLs electricity needs in 2018.
- ✈ Energy bills went up by **10%** from 2017 as a result of increasing utility energy prices.
- ✈ More lighting and solar panels are now underway and expected to be completed in 2019.



CARBON

Carbon Emissions from Airport Owned Sources & Electricity (2009-2018)

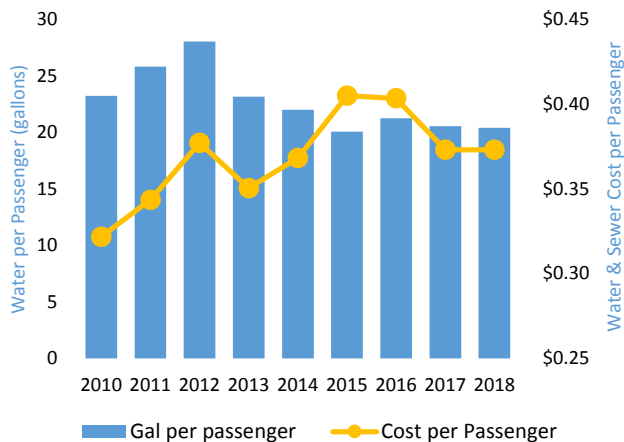


- ✈ Reduced airport-generated carbon emissions by **5%** from 2017 due to energy savings projects.
- ✈ Purchased 1,623 gallons of **biodiesel** for shuttles.
- ✈ Received worldwide recognition via **Airport Carbon Accreditation** renewing at Level 2. A third party verified process was undertaken to document efforts to account for and reduce carbon dioxide emissions from airport managed operations. Launched by Airports Council International, the program info can be found at airportco2.org.



WATER

Water Consumption and Cost per Passenger
(2009-2018)

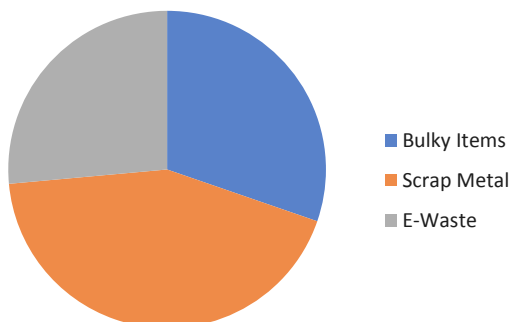


The chart on the left overlaps water consumption and cost for comparison. It shows how water costs (yellow) have not gone down because water use (blue) has stayed the same since 2014.



WASTE

Spring Recycle Drive 2018 Materials Collected
by Weight (23 tons)



Coordinated two Airport-Wide Foreign Object Debris (FOD) Walks, in the Spring and Fall.



2,209 lbs. of trash on the AOA cleaned up



400 total volunteers



Coordinated bulky item recycling drive for tenants and state offices for a 64% diversion from landfill:



E-Waste 12,221 lbs.



Scrap Metal 40,000 lbs.



Incinerator 28,000 lbs.



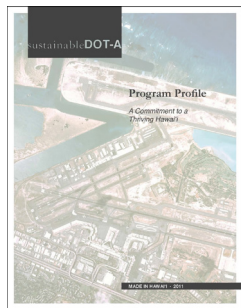
The airport recycled about 720 cubic yards of aluminum cans and plastic bottles from terminals in 2018.

RESOURCES

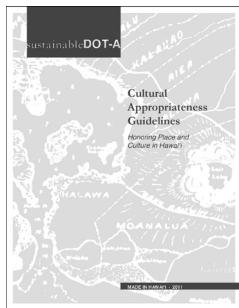
GUIDING DOCUMENTS



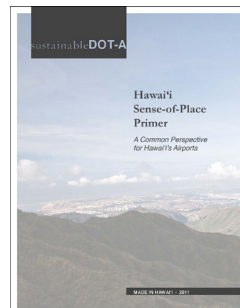
Sustainable
Management Plan



Sustainable DOT-A
Program Profile



Cultural
Appropriateness
Guidelines (CAG)



Hawai'i Sense-of-Place
Primer (HSPP)



Sustainable High
Performance
Guideline (SHPG)



REFERENCES

Sustainable HNL:

Sustainable DOT-Airports:

Federal Aviation Administration Sustainability Plans:

The Hawaii Aloha + Challenge:

Sustainable Hawaii Initiative:

Hawaii Clean Energy Initiative:

Hawaii Storm Water Airport Tenant Training Video:

<http://airports.hawaii.gov/hnl/airport-info/sustainablehnl/>

<http://tinyurl.com/susDOTA>

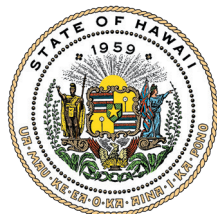
<https://www.faa.gov/airports/environmental/sustainability/>

<https://dashboard.hawaii.gov/aloha-challenge>

<http://governor.hawaii.gov/sustainable-hawaii-initiative/>

<http://www.hawaiicleanenergyinitiative.org/>

<https://www.youtube.com/watch?v=YSE54E2cUIE>



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STATE OF HAWAII

2019

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