







Airports MOU Implementation Progress Report for 2022 and 2023

Airports MOU Working Group Meeting

May 7, 2024













Background

March 2017

- 2016 AQMP
- Facility-Based Mobile Source Measure, MOB-04 Emission Reductions at Commercial Airports

May 2018

- South Coast AQMD's Governing Board Direction
- Pursue MOUs based on the airports air quality plans

2018-2019

- Airports MOU working group
- Airports developed their own Air Quality Improvement Plans/Measures
- Draft MOUs between South Coast AQMD and five commercial airports were developed

December 2019

- South Coast AQMD Board Adoption:
 - Airport MOUs implementing Air Quality Improvement Plans/Measures
 - South Coast AQMD enforceable commitment to achieve corresponding SIP creditable emission reductions

MOU Measures with 2023 and 2031 Performance Targets

Ground Support Equipment (GSE) Performance Targets

All airports

Shuttle Bus Electrification

Los Angeles (LAX), Burbank (BUR), and John Wayne (JWA)

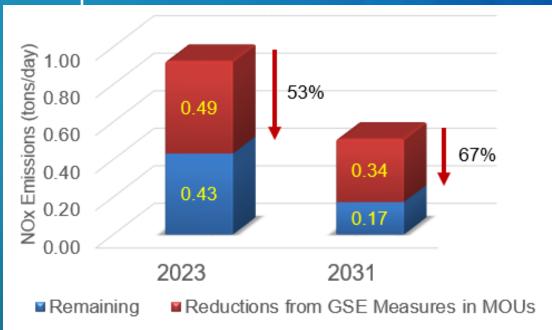
Other Measures

- LAX Alternative Fuel Vehicle Incentive Program
- JWA Jet Fuel Pipeline (reduced fuel truck trips)

MOUs Emission Reductions

- Enforceable NOx emission reduction commitments:
 - 2023: 0.52 tons per day
 - 2031: 0.37 tons per day
- Majority of reductions from GSE
- Additional reductions from shuttle buses and heavy-duty vehicles
- Aircraft not covered under MOUs (regulated primarily at the federal and international level)
- Heavy-duty trucks addressed by South Coast AQMD with Rule 2305, Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program

Anticipated Emission Reductions from GSE



MOUs Reporting Requirements



Temporary Semi-Annual progress updates

- Report to South Coast AQMD's Mobile Source Committee
- June 2020 and January 2021



Detailed annual progress reports

- June 1 of every year from 2021 to 2032
- List of equipment/vehicles
- Emissions inventory and fleet average performance
- 2022 and 2023 progress reports received on time from all airports

Tracking MOU Implementation

June 2021

• Airports'

detailed progress

report to

South

Coast

AQMD

November 2021

South
 Coast
 AQMD's
 progress
 report to
 U.S. EPA

June 2022

 Airports' 2nd detailed

progress

report to

South

Coast

AQMD

June 2023

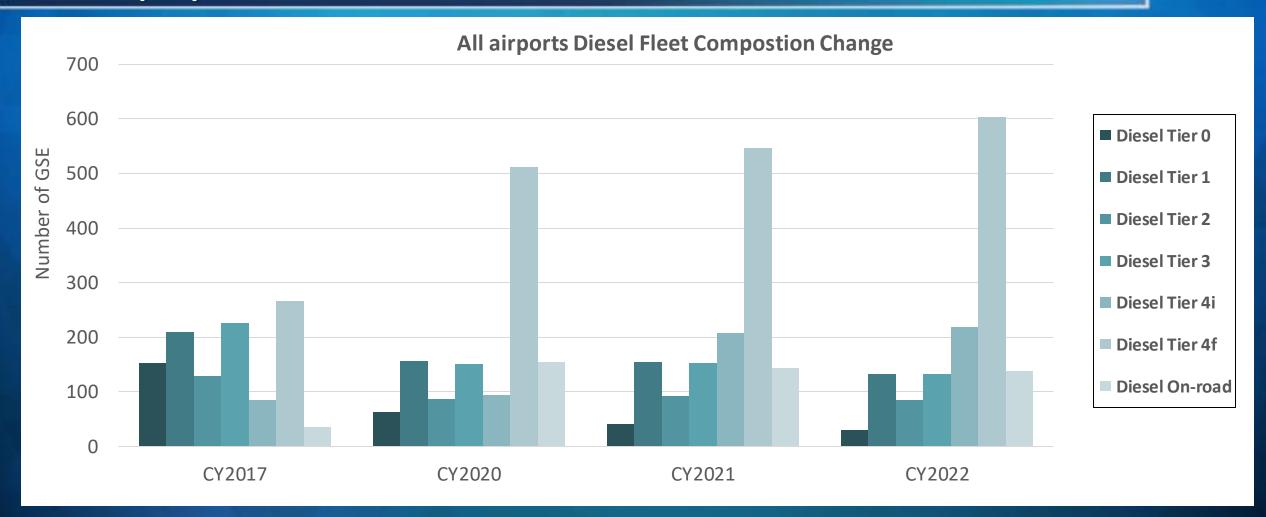
Airports'
 3rd
 detailed
 progress
 report to
 South
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AQMD

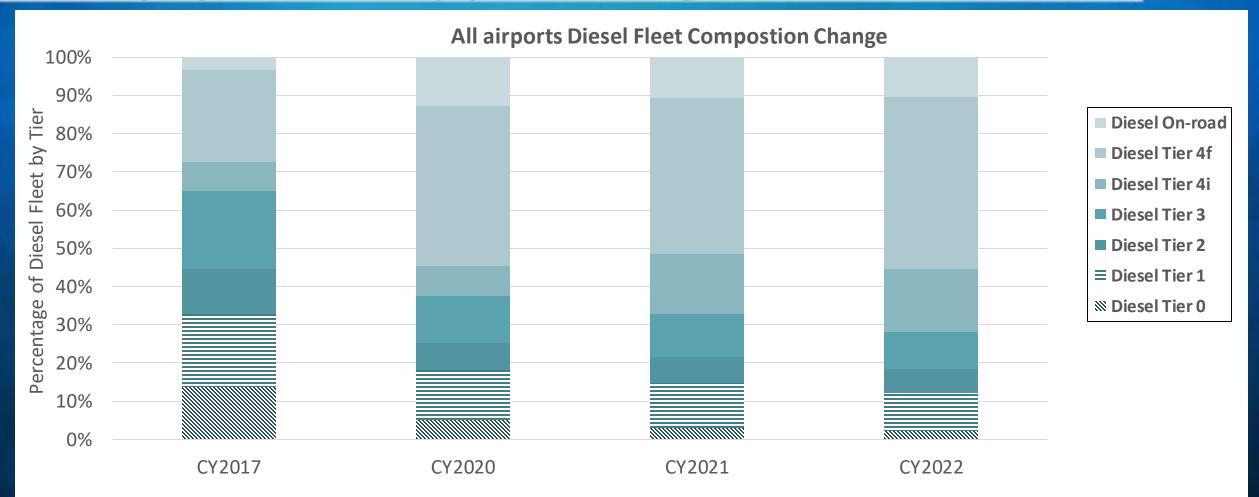
Late summer 2024*

South
 Coast
 AQMD's
 progress
 report to
 U.S. EPA

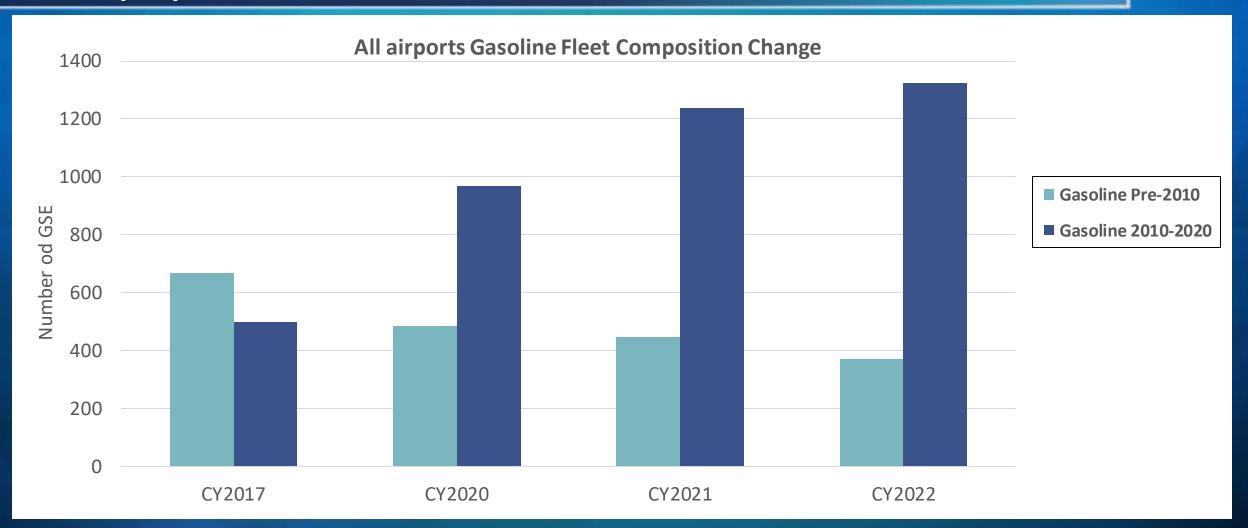
Diesel GSE Fleet Transition to Newer/Cleaner Equipment



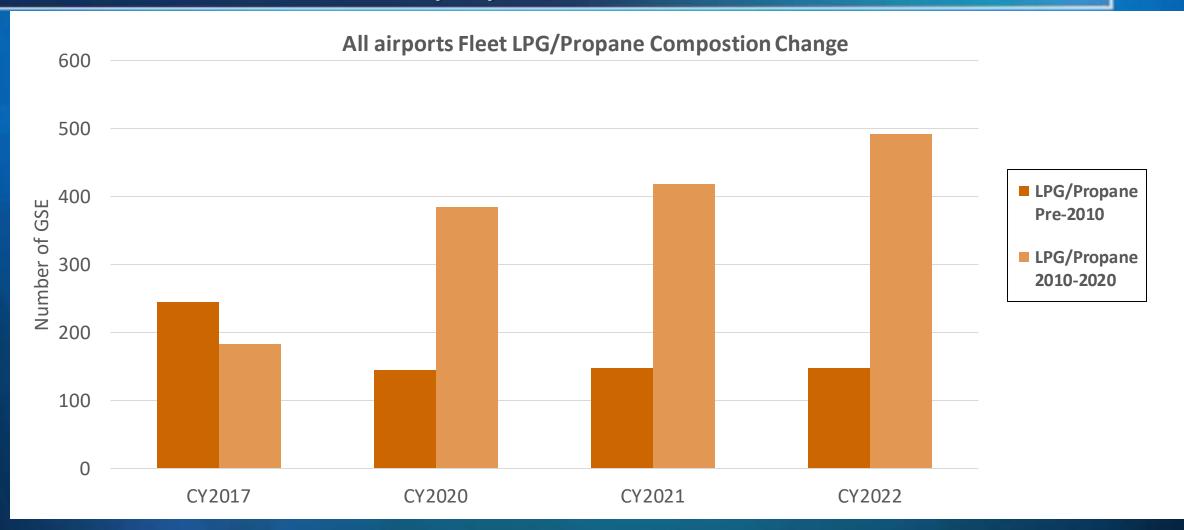
Diesel GSE Fleet Transition to Newer/Cleaner Equipment – by percentage



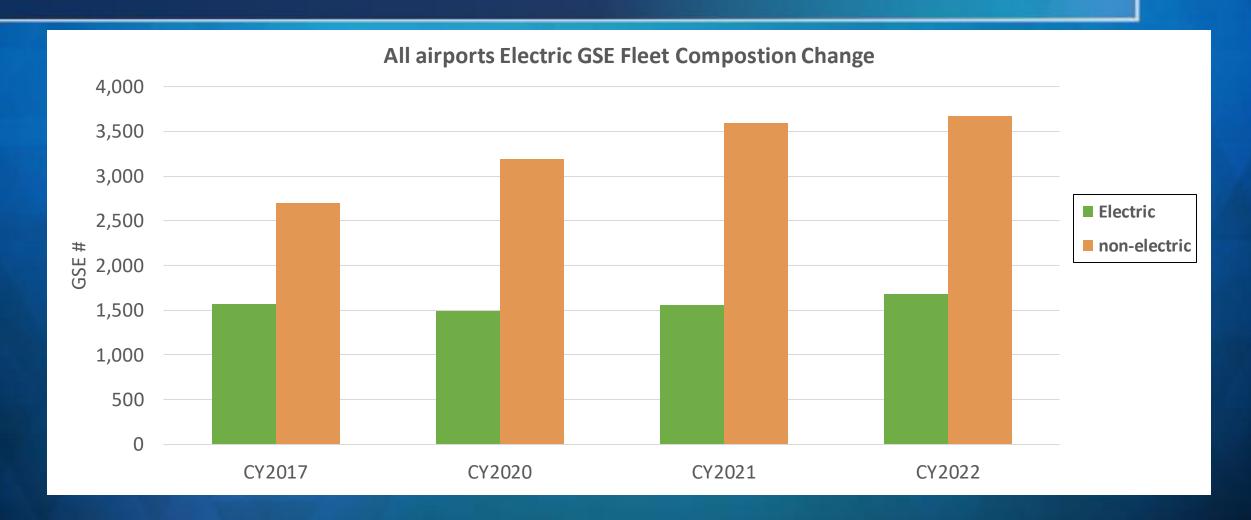
Gasoline GSE Fleet Transition to Newer/Cleaner Equipment



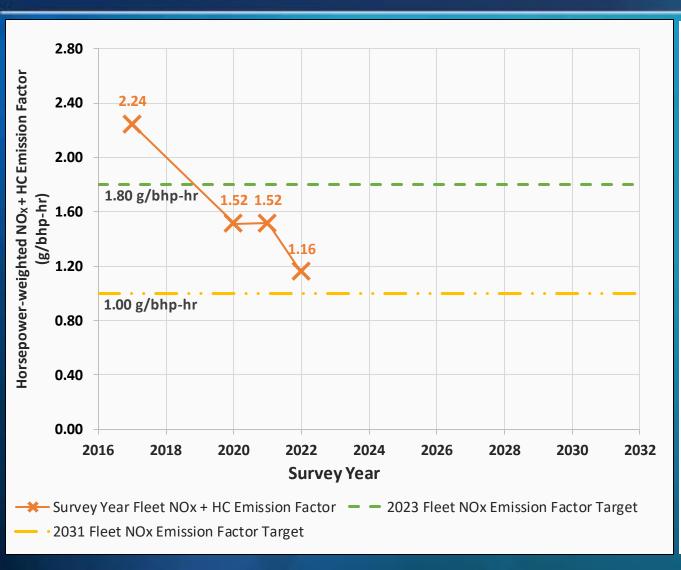
LPG/Propane GSE Fleet Transition to Newer/Cleaner Equipment

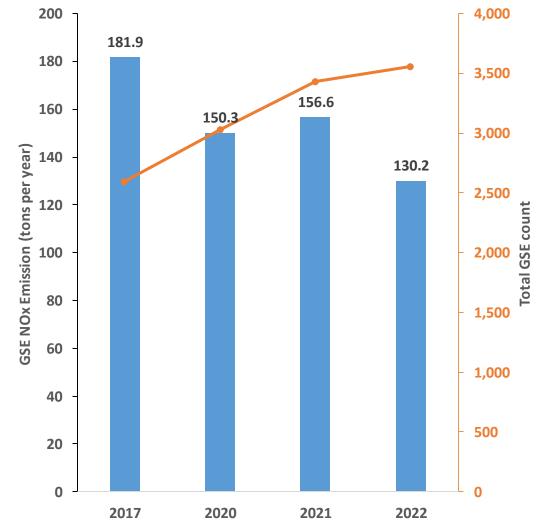


Electric GSE composition

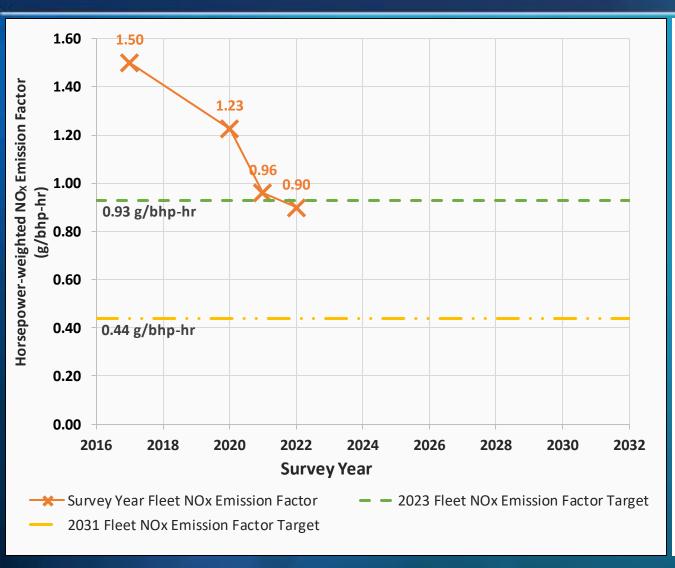


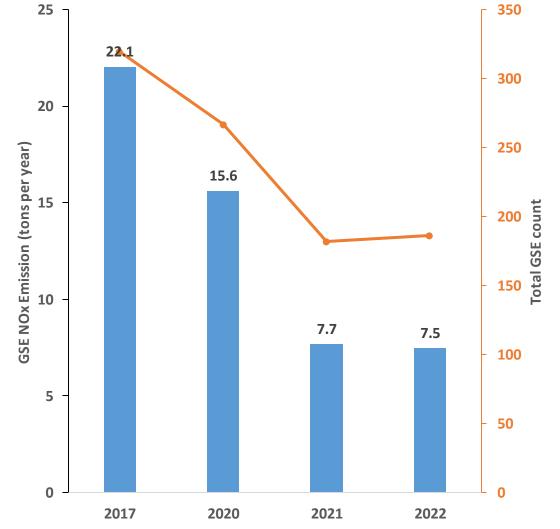
Los Angeles International Airport (LAX) GSE Measure



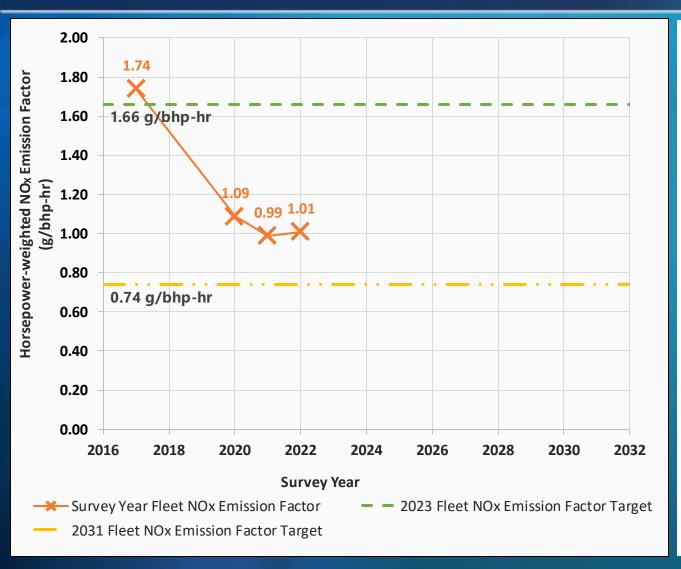


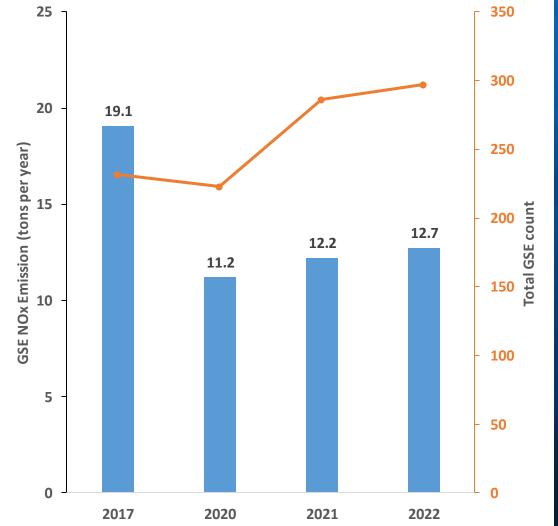
Long Beach Airport (LGB) GSE Measure



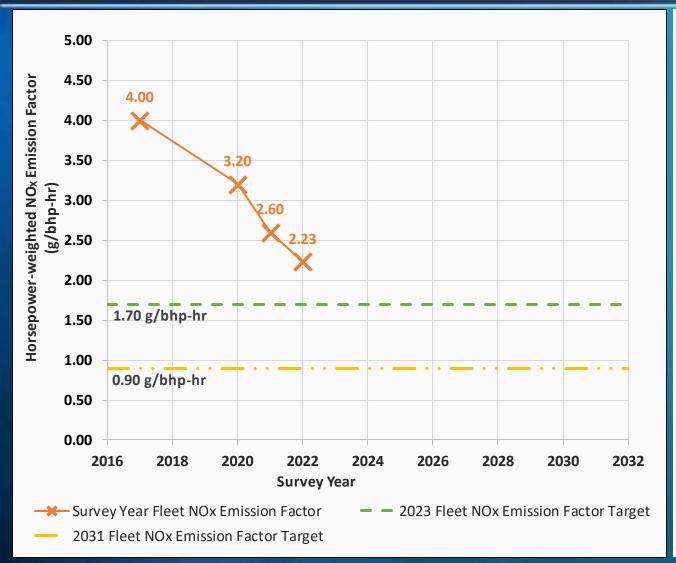


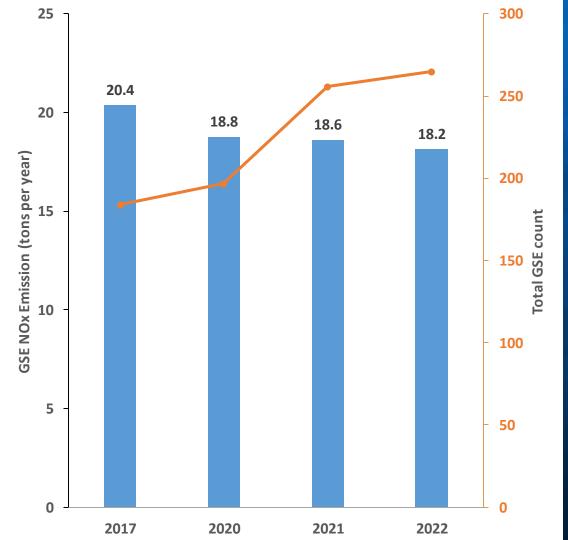
Burbank Airport (BUR) GSE Measure



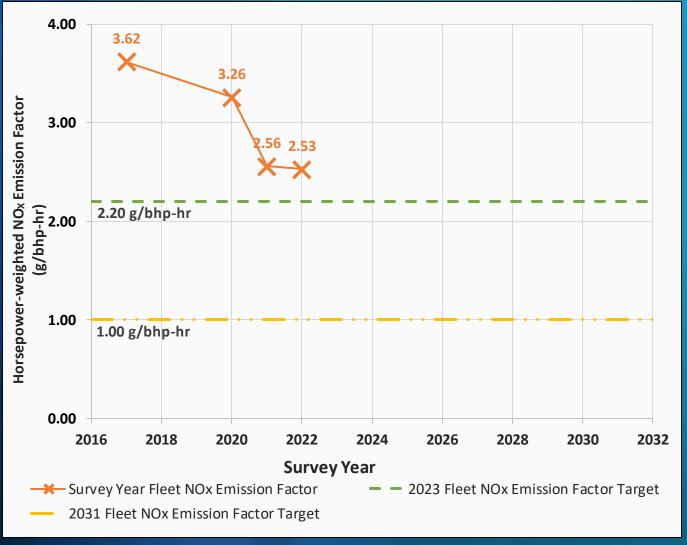


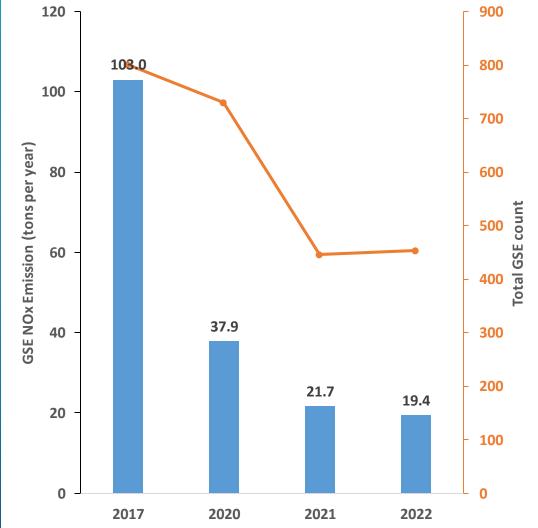
John Wayne Orange County Airport (SNA) GSE Measure





Ontario International Airport (ONT) GSE Measure





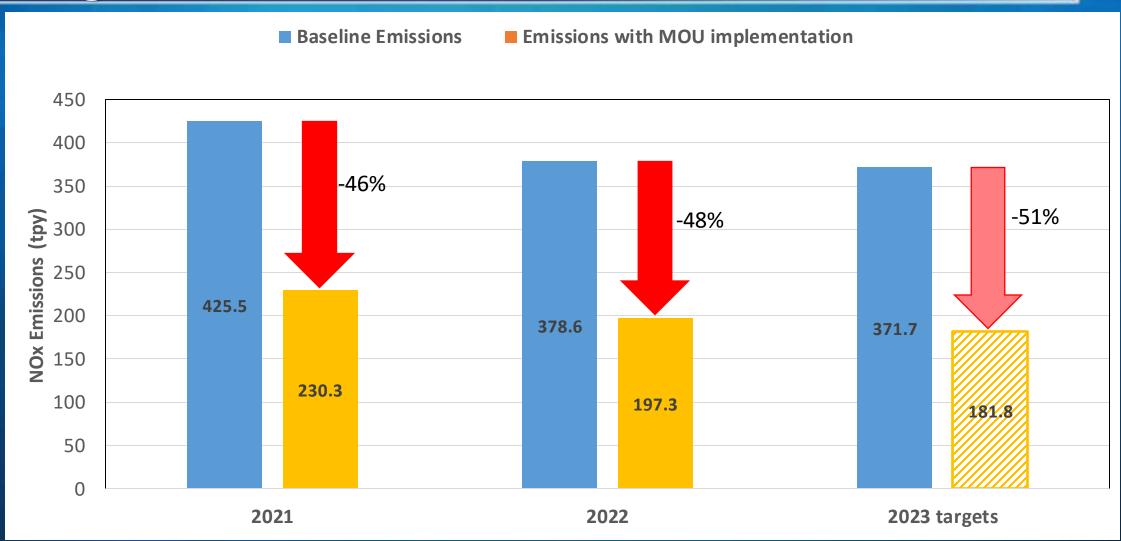
Alternative Fuel Vehicle Incentive, Shuttle Bus Electrification, and Jet Fuel Pipeline Measures

MOU Measure	2021 Reductions (ton/year)	2022 Reductions (ton/year)	2023 SIP Creditable Reduction Target (ton/year)
GSE	191.7	178.5	180.2
LAX Fuel Incentive Measure	0.4	0.5	0.39
LAX ZE Shuttle Bus	0.1	0.1	6.40
JWA Fuel Pipeline	2.9	2.2	1.52
JWA Parking Shuttle Bus Electrification*	-	-	1.34
BUR Shuttle Bus Electrification**	-	-	0.11
Total	195.1	181.3	189.9

^{(*} progress has been halted due to infrastructure challenges for EV charger installation)

^{(**}BUR has been awarded a five-year contract for shuttle services starting in October 2023, with a requirement to acquire and deploy a minimum 50% electric buses by April 2025)

Overall Progress Toward 2023 Emission Reductions Target



Next Step

 Finalize South Coast AQMD's Airports MOU Implementation Progress Report for 2022 and 2023

Comments are due by June 7, 2024

Report to South Coast AQMD's Mobile Source Committee
 June 21, 2024

 Submit the 2022 and 2023 Airports MOUs Implementation Progress Report to U.S. EPA By late summer 2024

Summary



Significant progress was made in 2021 and 2022 toward the 2023 SIP creditable emission reduction target



LAX, LGB and BUR already met their 2023 targets



LAX alternative fuel vehicle incentive program and JWA jet fuel pipeline measures achieved significant progress



EV charger installation backlog and infrastructure challenge slowed down implementation of shuttle bus electrification measures, but airports will continue to implement these measures

Stay Informed

All supporting documents are available on the Airport MOU Progress Reports webpage:

http://www.aqmd.gov/airportsmous

For comments or questions, please email: slee@aqmd.gov

