

2021 Airports MOU Implementation Progress Reports

Airports MOU Working Group Meeting #5

September 29, 2021



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
- MOUs between South Coast AQMD and five commercial airports were developed

December 2019

South Coast AQMD Board Adoption

- Facility-Based Mobile Source Measure for Commercial Airports and South Coast AQMD's enforceable commitment to achieve SIP creditable emission reductions based on the airports' implementation of their respective MOU measures



MOU Measures with 2023/2031 Performance Targets

Ground Support Equipment (GSE) Performance Targets

- All airports

Shuttle Bus Electrification

- LAX, BUR, and JWA

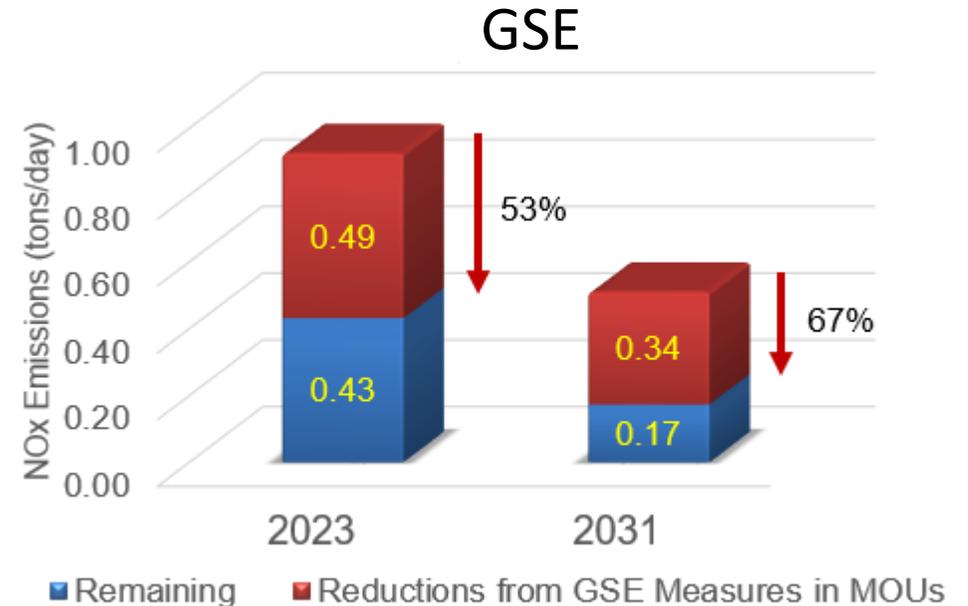
Other Measures

- LAX - Alternative Fuel Vehicle Incentive Program
- JWA – Jet Fuel Pipeline



MOUs Emission Reductions

- Projected NOx emission reductions:
 - 2023: 0.52 tpd
 - 2031: 0.37 tpd
- Majority of reductions from GSE
- Additional reductions from shuttle buses and heavy-duty vehicles
- Aircraft not covered under MOUs (regulated at the federal and international level)
- Heavy-duty trucks addressed under Rule 2305, Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program



MOUs Reporting Requirements

Semi-Annual progress updates to South Coast AQMD's Mobile Source Committee

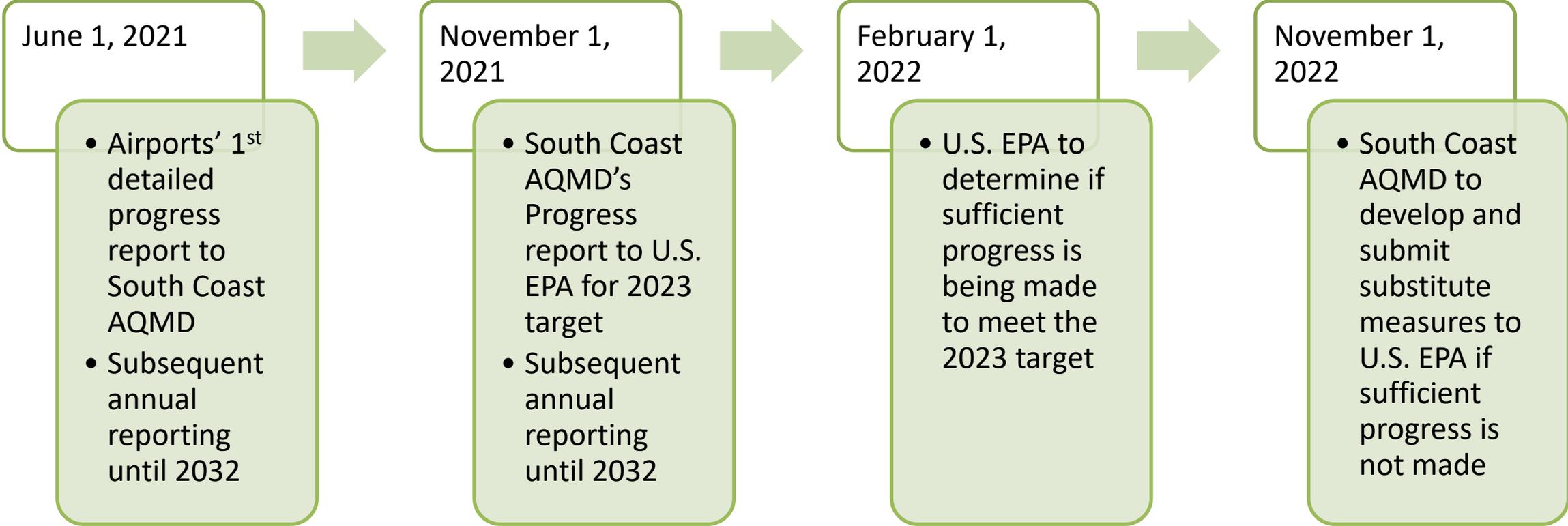
- June 2020
- January 2021

Detailed annual progress reports to South Coast AQMD

- June 1 of every year from 2021 to 2032
- List of equipment/vehicles
- Emissions inventory
- 2021 progress reports received from all airports

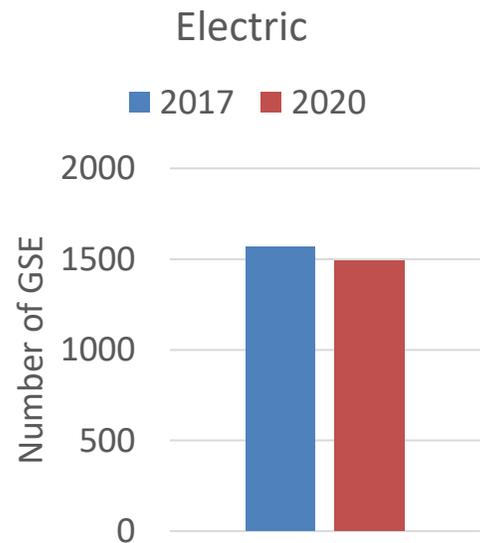
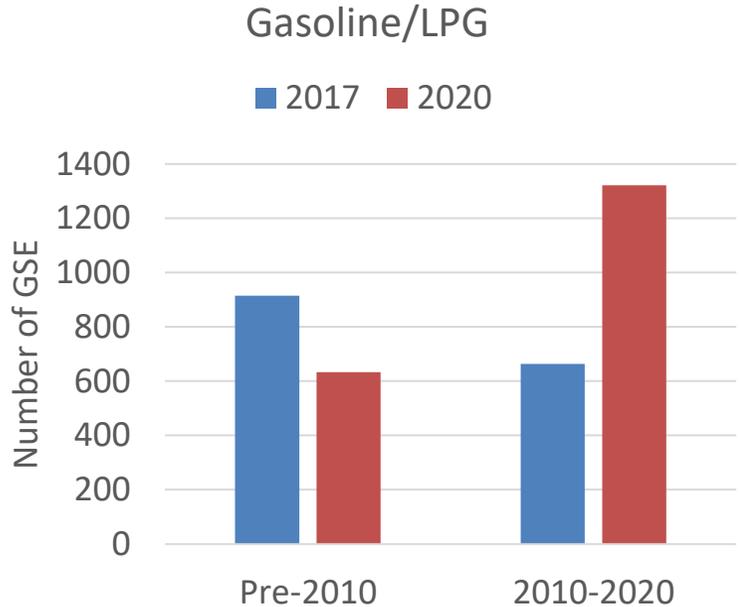
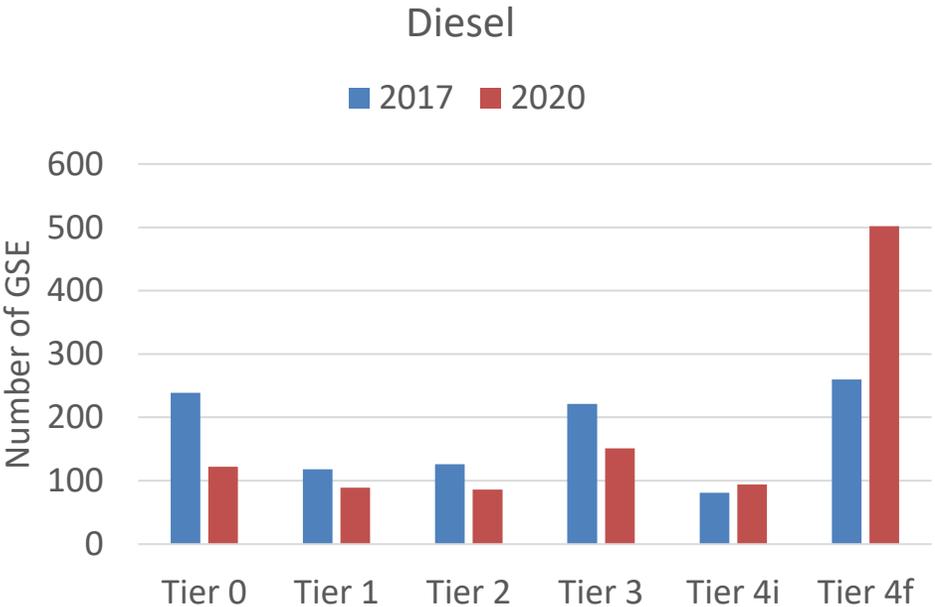


Tracking MOU Implementation

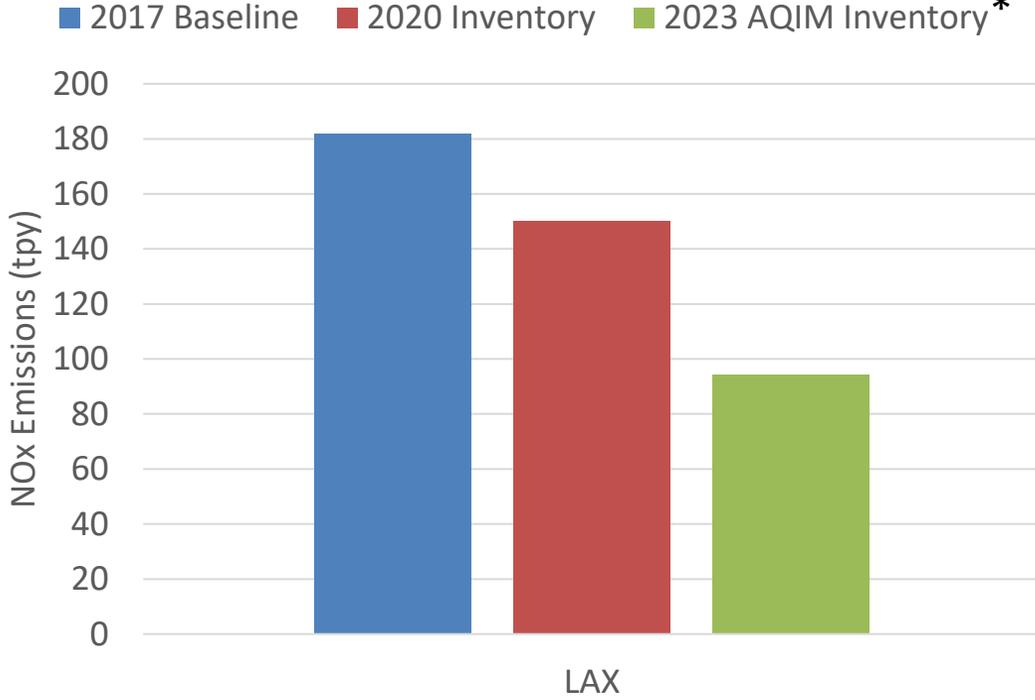
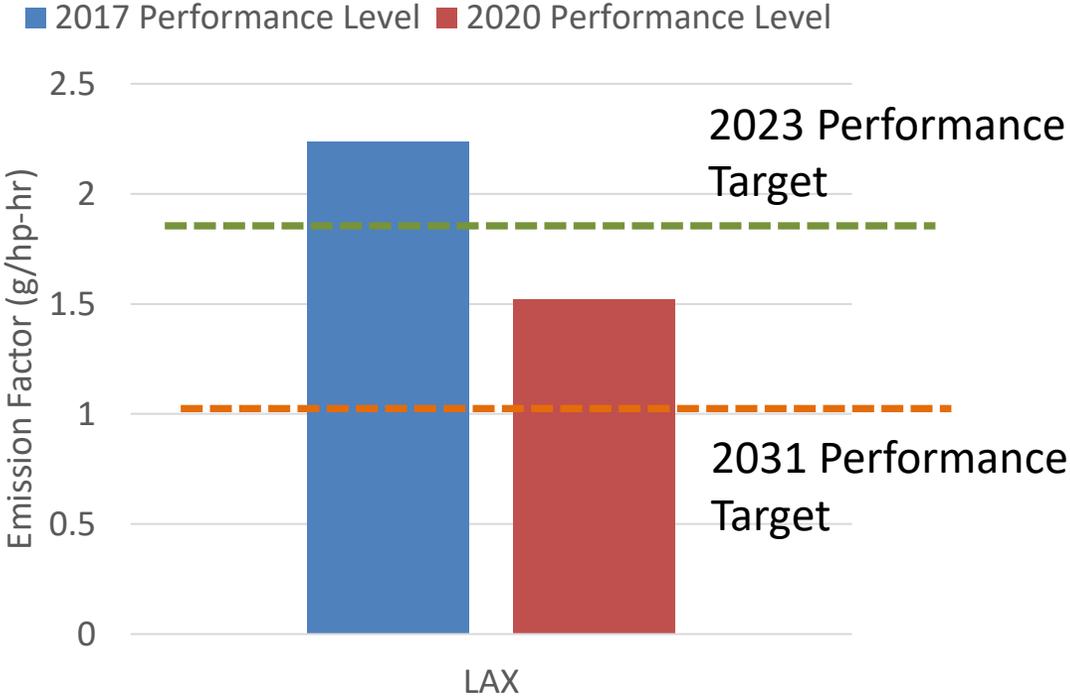


Ground Support Equipment (GSE) Fleet Transition to Newer/Cleaner Equipment

- There has been a transition towards newer/lower emitting diesel and gasoline/LPG GSE at all airports; number of electric GSE decreased slightly

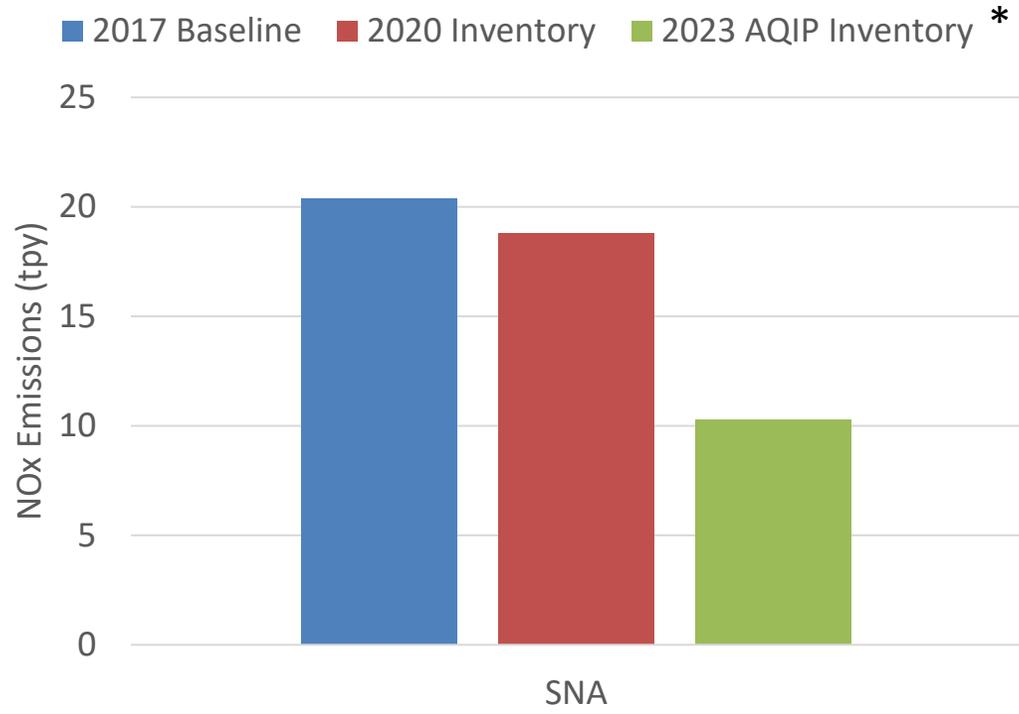
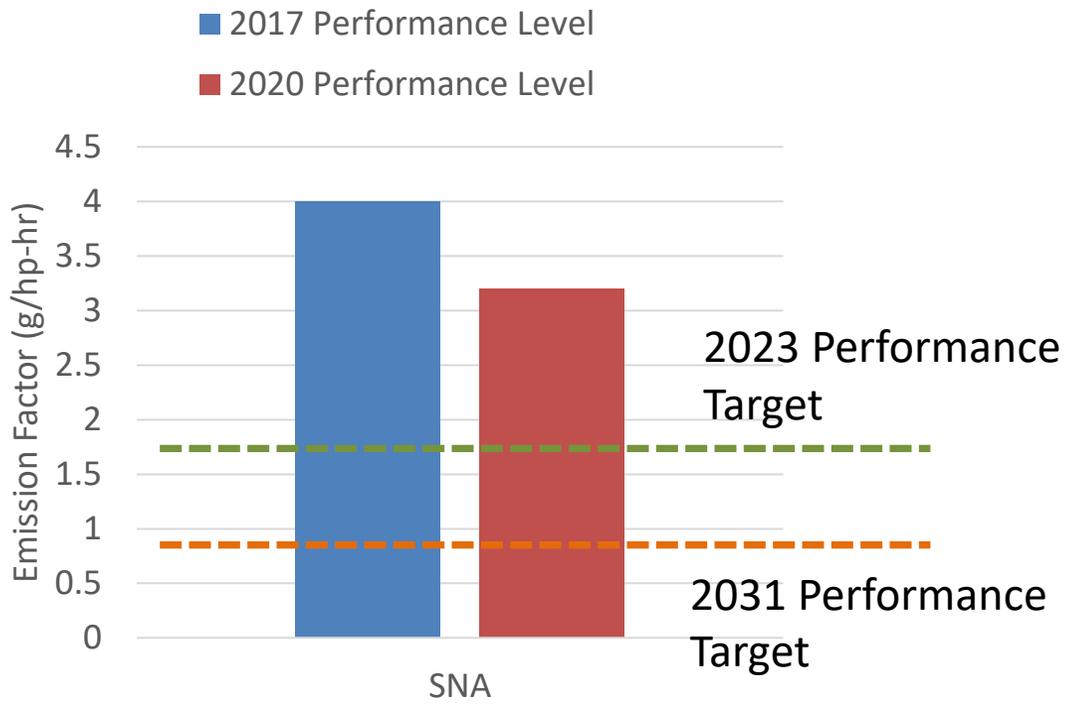


Los Angeles International Airport (LAX) GSE Measure



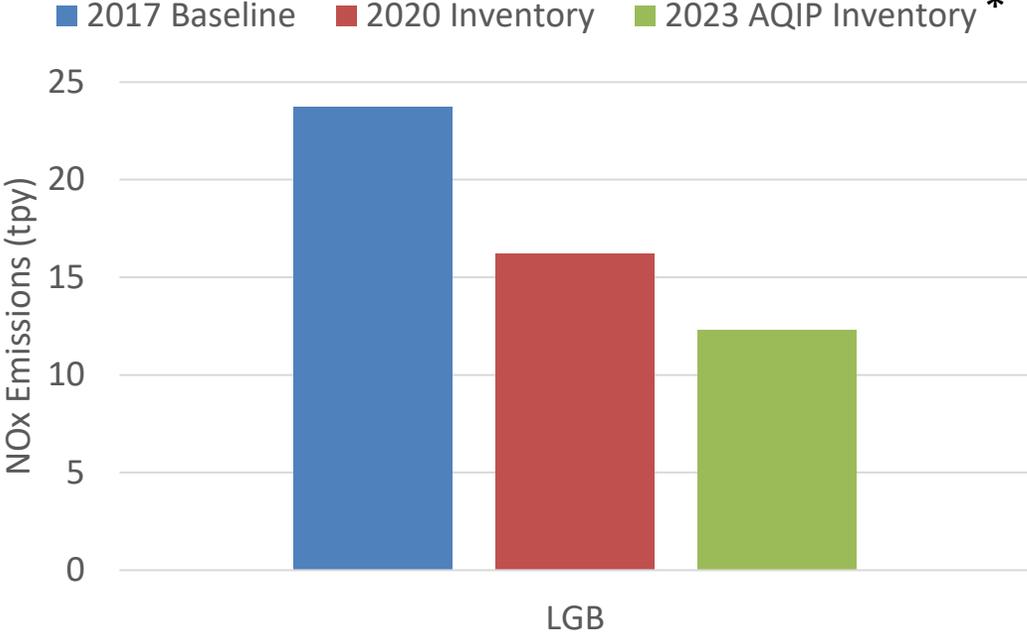
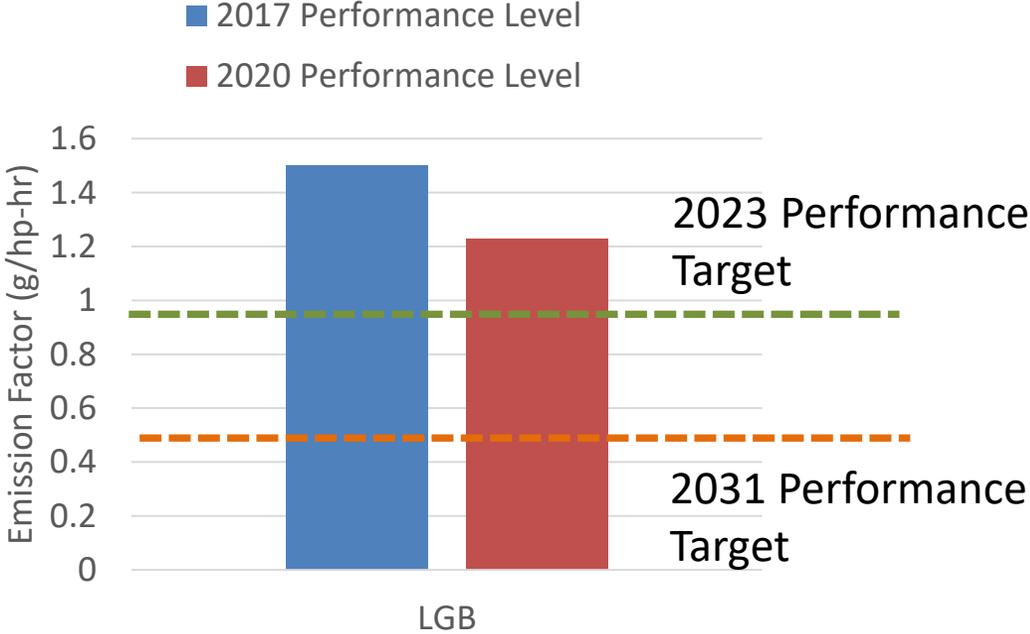
* Air Quality Improvement Measures (AQIM)

John Wayne Orange County Airport (SNA) GSE Measure



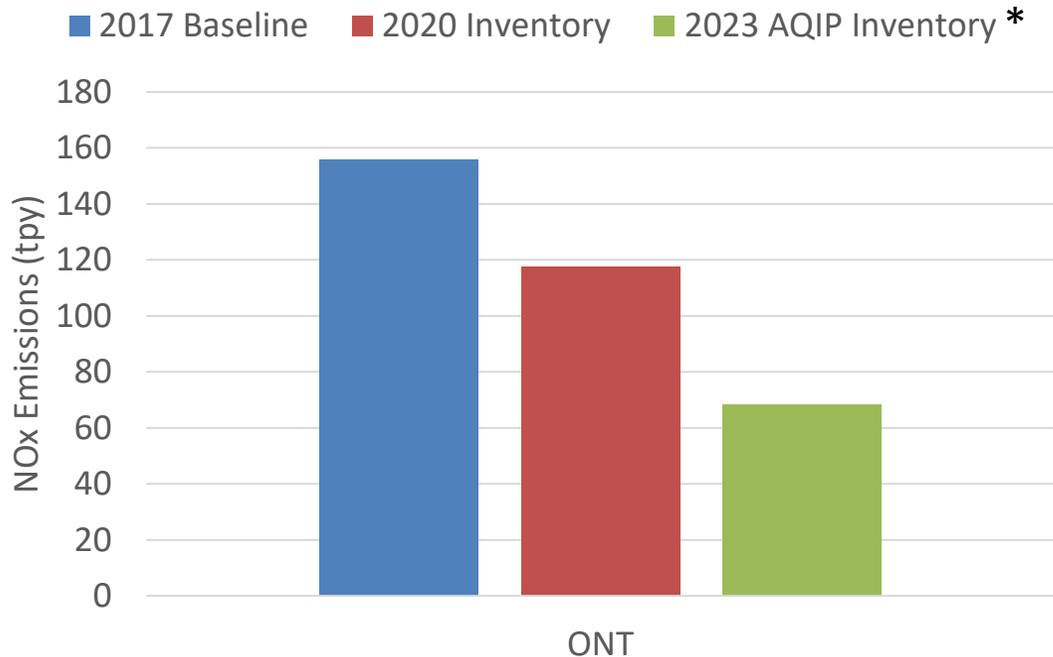
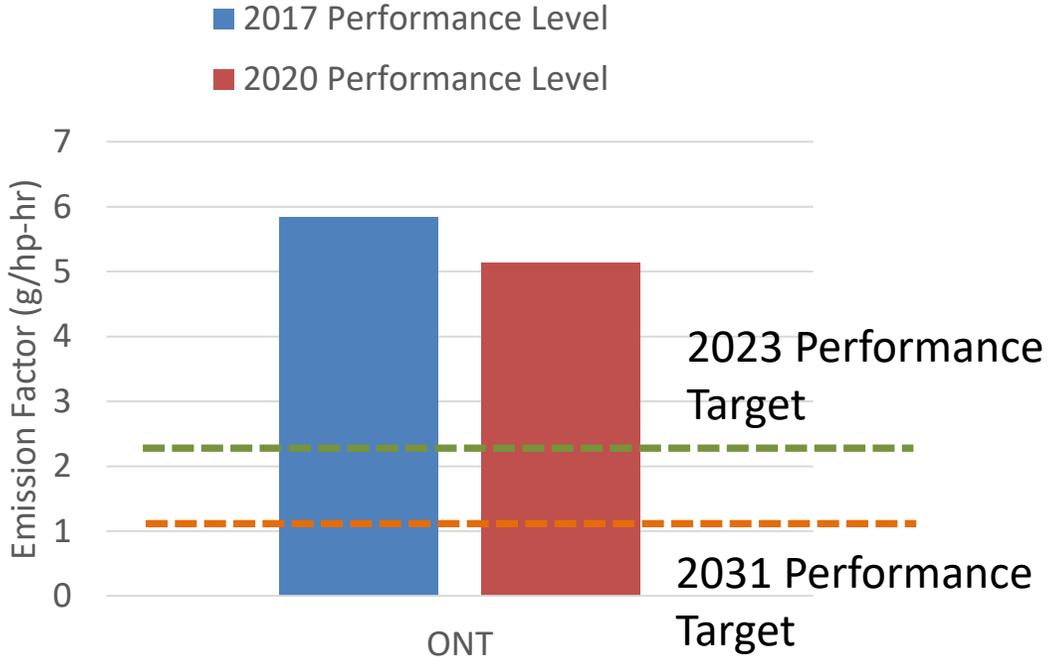
* Air Quality Improvement Plan (AQIP)

Long Beach Airport (LGB) GSE Measure



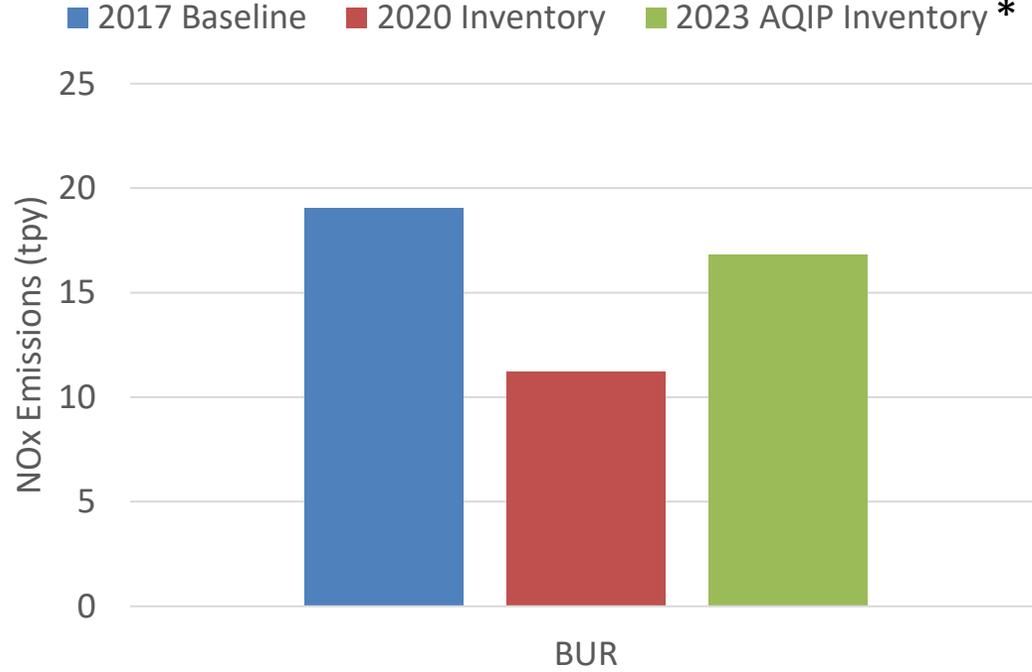
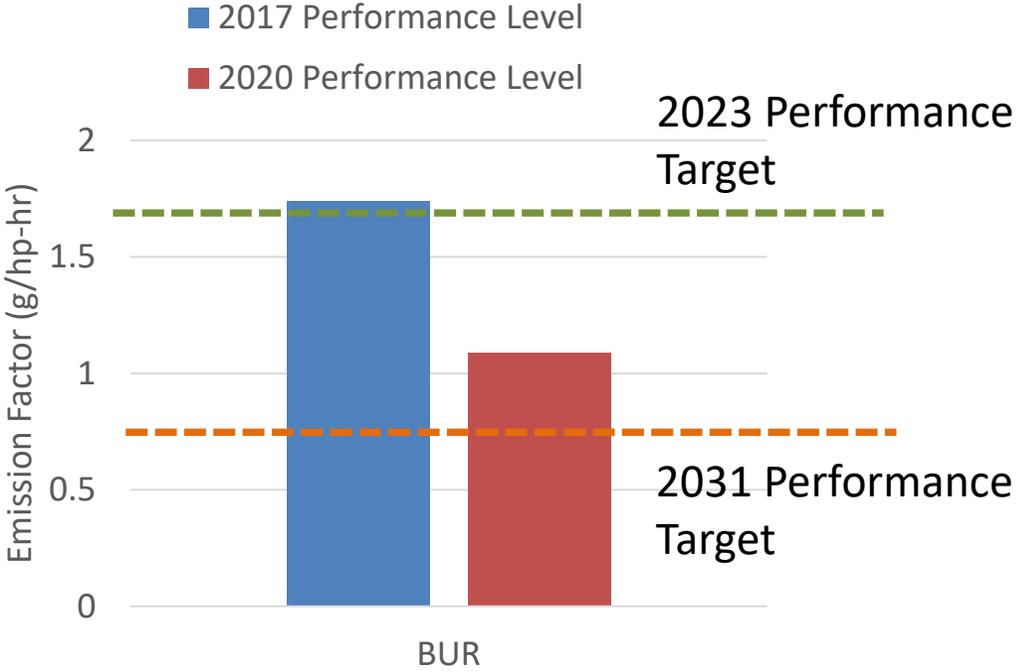
* Air Quality Improvement Plan (AQIP)

Ontario International Airport (ONT) GSE Measure



* Air Quality Improvement Plan (AQIP)

Burbank Airport (BUR) GSE Measure



* Air Quality Improvement Plan (AQIP)

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

Aggregated NOx reductions (tons per year)

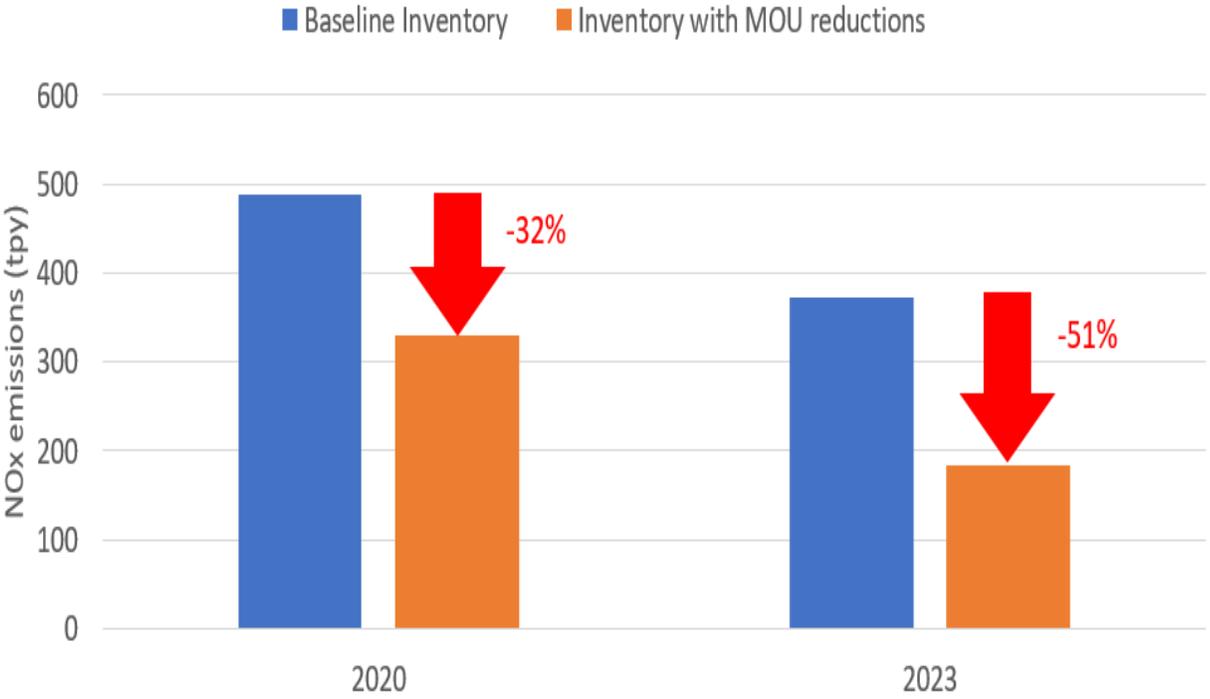
Measure	2020	2023 Projected from 2020 activity	2023 Targets
LAX Incentive	0.23	0.27	0.39
LAX Shuttle Bus	0.70	0.57	6.40
SNA Jet Fuel Delivery Pipeline	1.76	0.80	1.52



Overall Progress toward 2023 Emission Reductions Target

NOx emission Reductions (tons per year)

MOU Measure	2020 Reductions*	2023 SIP Creditable Reduction Target
GSE	155.8	180.2
Shuttle Bus	0.70	7.85
Heavy-duty Vehicles	1.99	1.91
Total	158.5	189.9



Summary

- Based on 2021 progress reports from all the airports, significant progress was made in 2020 toward the 2023 emission reduction target despite the COVID-19 pandemic
- All airports made progress on their GSE measures; all expected to achieve or exceed 2023 performance targets
- LAX alternative fuel vehicle incentive program and SNA jet fuel pipeline measures achieved significant progress
- COVID-19 pandemic slowed down implementation of shuttle bus electrification measures; but airports will continue to implement these measures to meet the 2023 performance targets
- All airports have shown a commitment to fully implement their MOU measures



Next Steps

- Finalize South Coast AQMD's 2021 Airports MOU Implementation Progress Report
 - www.aqmd.gov/airportsmous
 - Comments are due by October 15, 2021
- Report to South Coast AQMD's Mobile Source Committee
 - October 15, 2021
- Submit the Final Report to U.S. EPA
 - By November 1, 2021

