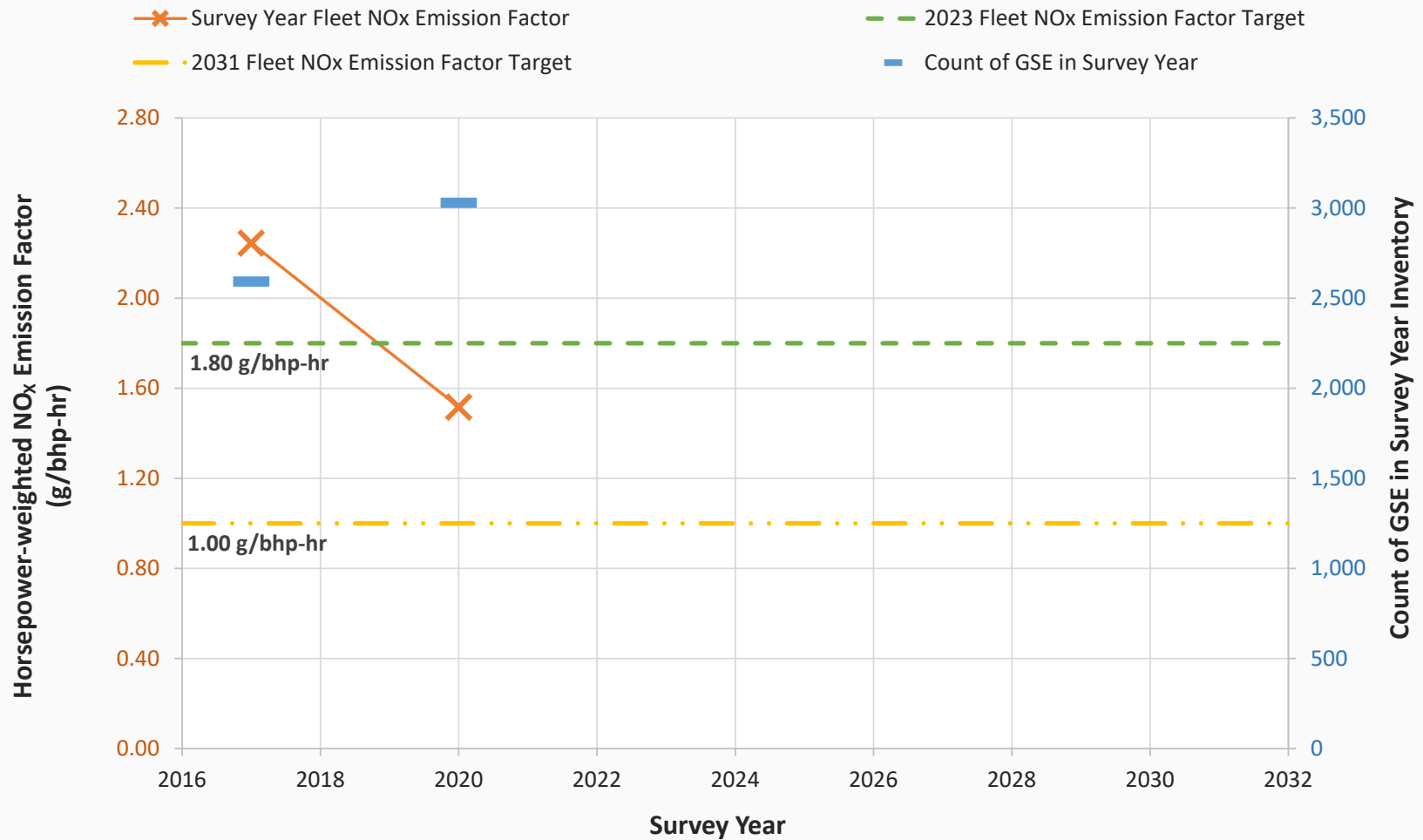


Survey Year	Count of Equipment ^[1]	Percent Electric ^[1]	OFFROAD Method NO _x ^{[2][3]} (short tons)	CARB Factors Method NO _x ^{[2][4]} (short tons)	MOU Fleet Performance NO _x + HC ^{[1][5]} (g/bhp-hr)
2017	2,592	40.4%	184.93	181.86	2.24
2018					
2019					
2020	3,029	34.2%	179.97	150.25	1.52
2021					
2022					
2023					
2023				Performance Target: 1.80	
2024					
2025					
2026					
2027					
2028					
2029					
2030					
2031					
2031				Performance Target: 1.00	
2032					

Notes:

- [1] Low-use and <25 horsepower non-electric equipment **excluded**
- [2] All reported equipment, including low-use and <25 hp equipment **included**
- [3] Emission factors back-calculated from OFFROAD2017 outputs (outdated LSI emission factors).
- [4] Emission factors provided by CARB July 2021 based on certified engine standards (LSI) and 2017 ORDAS model (ORD).
- [5] Calculated as an engine standard-based horsepower-weighted factor consistent with the methodology employed throughout the development of the **SCAQMD and City of Los Angeles Department of Airports 2019 MOU**.

Los Angeles International Airport GSE Program Progress



Count of Equipment [excluding <25hp non-electric and low-use equipment]					
	Diesel	Gasoline	LPG	Electric	Total
Overall Fleet	731	793	470	1,052	3,046
Overall Fleet Percent	24.0%	26.0%	15.4%	34.5%	--
A/C Tug Narrow Body	145	3	5	81	234
Air Conditioner	25	0	0	11	36
Air Start Unit	25	2	0	0	27
Baggage Tug	50	259	121	302	732
Belt Loader	32	96	4	180	312
Bobtail	13	42	0	2	57
Cargo Loader	160	0	0	5	165
Cargo Tractor	5	136	18	137	296
Cart	2	7	0	155	164
Catering Truck	55	34	0	0	89
Forklift	15	31	303	65	414
Fuel Truck	21	1	0	48	70
Generator	0	0	0	0	0
Ground Power Unit	104	0	0	10	114
Hydrant Truck	11	9	0	0	20
Lav Cart	0	0	0	3	3
Lav Truck	15	23	0	0	38
Lift	32	25	15	50	122
Passenger Stand	8	16	0	2	26
Service Truck	12	97	0	0	109
Sweeper	1	2	4	1	8
Water Truck	0	10	0	0	10

	Fleet Inventory Equipment Count [including <25hp non-electric and low-use equipment]				Fleet Inventory Annual Emissions [including <25hp non-electric and low-use equipment]							
	In-Use (any fuel)	Low-Use (any fuel)	Total (any fuel)	Electric	ROG (short tons)	CO (short tons)	NO _x (short tons)	PM ₁₀ (short tons)	PM _{2.5} (short tons)	CO _{2e} (metric tons)	SO _x (short tons)	
Overall Fleet	3,084	81	3,165	1,053	43.3	671.8	150.3	5.855	5.077	49,973	0.1543	
Overall Fleet Percent	97.4%	2.6%	--	33.3%	--	--	--	--	--	--	--	
A/C Tug Narrow Body	235	3	238	81	1.6	12.6	15.0	0.585	0.538	3,719	0.0173	
Air Conditioner	36	0	36	11	0.1	1.1	1.0	0.046	0.042	525	0.0025	
Air Start Unit	28	6	34	0	0.1	0.6	1.3	0.042	0.038	313	0.0015	
Baggage Tug	736	9	745	302	17.3	253.4	44.0	1.681	1.461	14,248	0.0343	
Belt Loader	315	0	315	180	3.3	47.6	9.8	0.388	0.326	2,976	0.0096	
Bobtail	57	0	57	2	0.3	11.6	0.9	0.172	0.133	1,921	0.0062	
Cargo Loader	165	4	169	5	1.1	10.4	10.7	0.436	0.401	1,916	0.0093	
Cargo Tractor	296	0	296	137	9.9	193.8	25.7	0.677	0.541	8,007	0.0225	
Cart	171	2	173	156	0.1	0.3	0.1	0.002	0.002	20	0.0001	
Catering Truck	89	0	89	0	0.8	22.5	7.4	0.373	0.304	4,139	0.0148	
Forklift	415	28	443	65	3.8	40.1	6.1	0.343	0.328	3,415	0.0024	
Fuel Truck	70	3	73	48	0.0	0.1	0.4	0.012	0.011	82	0.0004	
Generator	5	0	5	0	0.0	0.1	0.1	0.004	0.004	29	0.0001	
Ground Power Unit	116	5	121	10	1.2	12.0	10.3	0.463	0.426	3,167	0.0153	
Hydrant Truck	20	3	23	0	0.5	27.6	5.9	0.228	0.181	2,622	0.0089	
Lav Cart	5	2	7	3	0.0	0.0	0.0	0.000	0.000	2	0.0000	
Lav Truck	39	0	39	0	0.4	7.3	1.3	0.124	0.106	734	0.0025	
Lift	124	11	135	50	1.8	21.0	7.5	0.124	0.108	1,022	0.0029	
Passenger Stand	27	1	28	2	0.1	1.0	0.4	0.013	0.010	121	0.0004	
Service Truck	115	4	119	0	0.5	6.3	1.8	0.128	0.105	800	0.0027	
Sweeper	9	0	9	1	0.2	1.4	0.4	0.004	0.004	59	0.0001	
Water Truck	11	0	11	0	0.1	0.9	0.2	0.011	0.008	137	0.0004	

	Fleet Inventory Equipment Count (including <25hp non-electric and low-use equipment)			Fleet Inventory Annual Emissions (including <25hp non-electric and low-use equipment)						
	In-Use (any fuel)	Low-Use (any fuel)	Total (any fuel)	ROG (short tons)	CO (short tons)	NO _x (short tons)	PM ₁₀ (short tons)	PM _{2.5} (short tons)	CO _{2e} (metric tons)	SO _x (short tons)
Overall Fleet	3,084	81	3,165	43.3	671.8	150.3	5.855	5.077	49,973	0.1543
Overall Fleet Percent	97.4%	2.6%	--	--	--	--	--	--	--	--
Diesel	748	36	784	7.7	48.4	66.2	2.929	2.695	13,601	0.0658
<i>Tier 4</i>	312	13	325	1.0	19.8	10.6	0.334	0.307	5,970	0.0289
<i>Tier 4i</i>	62	1	63	0.5	4.8	4.5	0.182	0.168	1,333	0.0065
<i>Tier 3</i>	82	1	83	1.0	6.6	9.3	0.508	0.467	1,771	0.0086
<i>Tier 2</i>	41	4	45	0.5	3.0	5.9	0.228	0.210	705	0.0034
<i>≤ Tier 1</i>	124	12	136	4.5	13.0	25.8	1.337	1.230	1,945	0.0094
<i>On-Road</i>	127	5	132	0.2	1.2	10.2	0.340	0.313	1,876	0.0091
Gasoline	813	19	832	23.7	463.1	51.3	2.226	1.682	28,318	0.0884
<i>Pre-2010</i>	218	13	231	18.3	188.1	41.0	0.450	0.340	5,721	0.0179
<i>2010 and Newer</i>	595	6	601	5.4	275.0	10.3	1.776	1.342	22,598	0.0706
LPG	471	25	496	11.9	160.3	32.8	0.700	0.700	8,054	0.0000
<i>Pre-2010</i>	106	16	122	7.9	74.1	30.2	0.235	0.235	2,698	0.0000
<i>2010 and Newer</i>	365	9	374	4.0	86.2	2.6	0.466	0.466	5,356	0.0000
Electric	1052	1	1053	0.0	0.0	0.0	0.0	0.0	0.0	0.0