

Survey Year	Count of Equipment <sup>[1]</sup>	Percent Electric <sup>[1]</sup>	OFFROAD Method	CARB Factors Method	MOU Fleet Performance
			NO <sub>x</sub> <sup>[2][3]</sup> (short tons)	NO <sub>x</sub> <sup>[2][4]</sup> (short tons)	NO <sub>x</sub> <sup>[1][5][6]</sup> (g/bhp-hr)
2017	232	46.1%	17.85	19.07	1.74
2018					
2019					
2020	223	40.4%	16.00	11.20	1.09
2021	295	40.9%	--	12.15	0.99
2022	297	40.9%	--	12.73	1.01
2023					
<b>2023</b>				<b>Performance Target:</b>	<b>1.66</b>
2024					
2025					
2026					
2027					
2028					
2029					
2030					
2031					
<b>2031</b>				<b>Performance Target:</b>	<b>0.74</b>
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[3] Emission factors back-calculated from OFFROAD2017 outputs (outdated LSI emission factors).

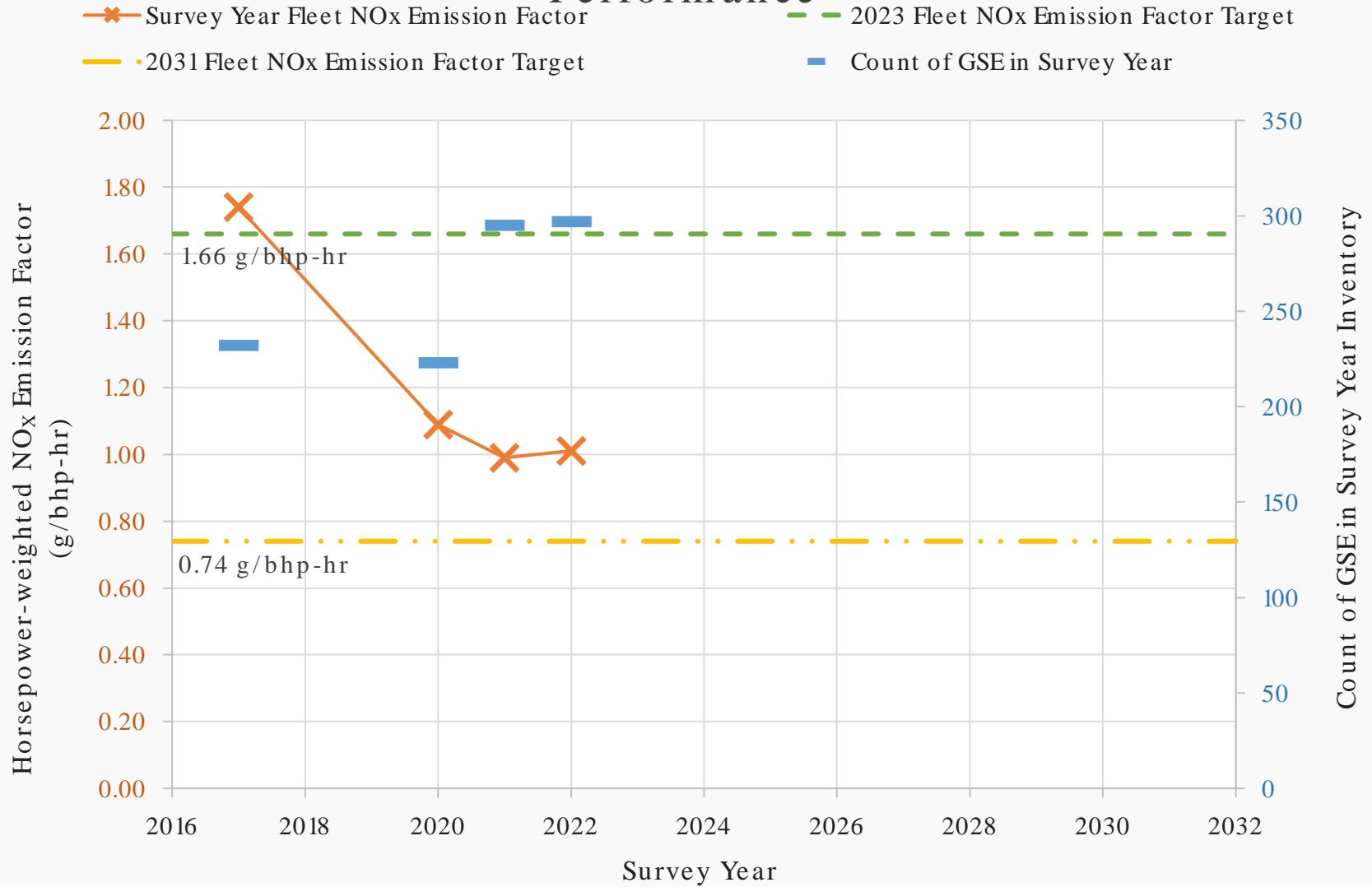
[4] Emission factors provided by CARB July 2021 based on certified engine standards (LSI) and 2017 ORDAS model (ORD).

[5] Calculated as a fully-loaded horsepower-weighted factor consistent with the methodology employed throughout the development of the **SCAQMD and Burbank-Glendale-Pasadena Airport Authority 2019 MOU**.

[6] Reporting year 2020 performance factor calculated using emission factors provided by CARB July 2021 based on certified engine standards (LSI) and 2017 ORDAS model (ORD). Reporting year 2017 factor and targets for years 2023 and 2031 based on back-calculated emission factors from the OFFROAD2017 model.

# Hollywood Burbank Airport GSE Program

## Performance



<b>Count of Equipment</b> <b>[excluding &lt;25hp non-electric and low-use equipment]</b>					
	<b>Diesel</b>	<b>Gasoline</b>	<b>LPG</b>	<b>Electric</b>	<b>Total</b>
<b>Overall Fleet</b>	<b>96</b>	<b>67</b>	<b>13</b>	<b>121</b>	<b>297</b>
<b>Overall Fleet Percent</b>	<b>32.3%</b>	<b>22.6%</b>	<b>4.4%</b>	<b>40.7%</b>	<b>--</b>
<b>A/C Tug Narrow Body</b>	13	1	0	18	32
<b>Air Conditioner</b>	10	0	0	0	10
<b>Air Start Unit</b>	5	0	0	0	5
<b>Baggage Tug</b>	1	18	2	26	47
<b>Belt Loader</b>	6	17	1	17	41
<b>Cargo Loader</b>	10	3	0	0	13
<b>Cargo Tractor</b>	0	10	0	0	10
<b>Cart</b>	0	2	0	21	23
<b>Catering Truck</b>	0	1	0	0	1
<b>Forklift</b>	0	1	10	0	11
<b>Fuel Truck</b>	18	2	0	0	20
<b>Generator</b>	1	1	0	0	2
<b>Ground Power Unit</b>	32	0	0	21	53
<b>Lav Cart</b>	0	0	0	5	5
<b>Lav Truck</b>	0	1	0	0	1
<b>Lift</b>	0	0	0	6	6
<b>Maint. Truck</b>	0	3	0	0	3
<b>Other</b>	0	0	0	0	0
<b>Passenger Stand</b>	0	4	0	5	9
<b>Service Truck</b>	0	3	0	0	3
<b>Sweeper</b>	0	0	0	2	2

	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 <sub>x</sub> (short tons)	PM <sub>10</sub> (short tons)	PM <sub>2.5</sub> (short tons)	CO <sub>2e</sub> (metric tons)	SO <sub>x</sub> (short tons)
<b>Overall Fleet</b>	<b>307</b>	<b>51</b>	<b>359</b>	<b>147</b>	<b>5.8</b>	<b>51.0</b>	<b>12.7</b>	<b>0.41</b>	<b>0.35</b>	<b>3,789</b>	<b>0.01</b>
<b>Overall Fleet Percent</b>	<b>85.8%</b>	<b>14.2%</b>	--	<b>40.9%</b>	--	--	--	--	--	--	--
<b>A/C Tug Narrow Body</b>	32	9	42	22	0.1	1.3	1.3	0.05	0.04	244	0.00
<b>Air Conditioner</b>	10	3	13	2	0.0	0.5	0.4	0.02	0.01	135	0.00
<b>Air Start Unit</b>	5	2	7	0	0.0	0.1	0.1	0.00	0.00	49	0.00
<b>Baggage Tug</b>	47	5	52	26	2.3	15.3	1.4	0.05	0.04	668	0.00
<b>Belt Loader</b>	41	1	42	17	0.5	9.9	1.7	0.06	0.05	609	0.00
<b>Cargo Loader</b>	13	0	13	0	0.1	2.9	0.7	0.05	0.04	371	0.00
<b>Cargo Tractor</b>	10	0	10	0	1.4	10.6	2.0	0.04	0.03	506	0.00
<b>Cart</b>	23	11	34	31	0.0	0.1	0.0	0.00	0.00	18	0.00
<b>Catering Truck</b>	1	1	2	0	0.1	0.3	0.1	0.00	0.00	36	0.00
<b>Forklift</b>	11	2	13	1	0.2	1.9	0.5	0.01	0.01	84	0.00
<b>Fuel Truck</b>	20	0	20	0	0.0	0.2	0.3	0.01	0.01	75	0.00
<b>Generator</b>	7	0	7	0	0.1	0.6	0.1	0.01	0.01	72	0.00
<b>Ground Power Unit</b>	53	5	58	25	0.4	3.4	3.2	0.10	0.09	767	0.00
<b>Lav Cart</b>	8	2	10	5	0.0	0.0	0.0	0.00	0.00	1	0.00
<b>Lav Truck</b>	1	0	1	0	0.0	0.1	0.0	0.00	0.00	10	0.00
<b>Lift</b>	6	3	9	9	0.0	0.0	0.0	0.00	0.00	0	0.00
<b>Maint. Truck</b>	3	5	8	0	0.0	0.1	0.0	0.00	0.00	14	0.00
<b>Other</b>	2	0	2	0	0.2	2.0	0.2	0.00	0.00	15	0.00
<b>Passenger Stand</b>	9	0	9	5	0.1	0.7	0.3	0.00	0.00	31	0.00
<b>Service Truck</b>	3	0	3	0	0.3	1.0	0.3	0.01	0.01	84	0.00
<b>Sweeper</b>	2	2	4	4	0.0	0.0	0.0	0.00	0.00	0	0.00

	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 <sub>x</sub> (short tons)	PM <sub>10</sub> (short tons)	PM <sub>2.5</sub> (short tons)	CO <sub>2</sub> e (metric tons)	SO <sub>x</sub> (short tons)
<b>Overall Fleet</b>	<b>307</b>	<b>51</b>	<b>359</b>	<b>5.8</b>	<b>51.0</b>	<b>12.7</b>	<b>0.408</b>	<b>0.348</b>	<b>3,789</b>	<b>0.0138</b>
<b>Overall Fleet Percent</b>	<b>85.8%</b>	<b>14.2%</b>	--	--	--	--	--	--	--	--
<b>Diesel</b>	101	8	110	0.7	6.1	6.4	0.222	0.204	1,424	0.0069
<i>Tier 4</i>	60	6	67	0.2	3.9	1.7	0.036	0.033	805	0.0039
<i>Tier 4i</i>	3	0	3	0.0	0.2	0.2	0.010	0.009	70	0.0003
<i>Tier 3</i>	16	1	17	0.2	0.8	1.6	0.066	0.061	248	0.0012
<i>Tier 2</i>	15	0	15	0.2	1.1	2.3	0.087	0.080	262	0.0013
<i>Tier 1</i>	5	1	6	0.0	0.0	0.2	0.006	0.006	22	0.0001
<i>Tier 0</i>	2	0	2	0.0	0.1	0.3	0.017	0.016	16	0.0001
<i>On-Road</i>	0	0	0	0.0	0.0	0.0	0.000	0.000	0	0.0000
<b>Gasoline</b>	72	16	88	4.9	42.6	5.8	0.173	0.131	2,218	0.0069
<i>Pre-2010</i>	31	5	36	4.5	24.9	5.1	0.069	0.052	881	0.0028
<i>2010 and Newer</i>	41	11	52	0.4	17.7	0.7	0.104	0.079	1,338	0.0042
<b>LPG</b>	13	1	14	0.2	2.2	0.6	0.013	0.013	147	0.0000
<i>Pre-2010</i>	7	1	8	0.2	1.4	0.6	0.005	0.005	62	0.0000
<i>2010 and Newer</i>	6	0	6	0.0	0.8	0.0	0.007	0.007	85	0.0000
<b>Electric</b>	121	26	147	0.0	0.0	0.0	0.000	0.000	0	0.0000