



**Citywide Administrative
Services**

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To: Carmine Rivetti, DCAS Government Relations

From: Keith T. Kerman, Deputy Commissioner 

Date: March 30, 2018

RE: Local Law 75: Report on Use Based Fuel Economy for City Fleet

Attached is a report on the use-based fuel economy for non-emergency light and medium duty fleet units as required by Local Law 75 of 2013. This is the third report that DCAS has been required to submit in compliance with this law and covers FY16 and FY17 fleet usage.

Thank you.

Cc: Suzanne Lynn, DCAS Counsel
Eric Richardson, Deputy Chief Fleet Officer
Sherry Lee, Chief of Staff, Fleet

DCAS: REPORT ON THE USE BASED FUEL ECONOMY OF LIGHT AND MEDIUM NON-EMERGENCY VEHICLES IN THE CITY FLEET. (FY16 REVISED AND FY17)

1) Summary

In 2013, the City Council passed Local Law 75 regarding the use based fuel economy of the City's non-emergency light and medium duty vehicles. DCAS already reports on the manufacturer's listed miles per gallon (MPG) as part of Local Law 38 of 2005 which governs the purchase of new light and medium duty vehicles. Local Law 75 of 2013 requires the reporting of the actual "use based" fuel economy of City vehicles, as impacted by weather, traffic, use of AC and heaters, idling, and other road and operational conditions.

In 2013, DCAS did not have the reporting capacity to provide use based fuel economy in the manner required by the law. Since 2013, DCAS has implemented a new fleet management system, NYC Fleet Focus; a new gas card contract for private retail fueling; and a new citywide fuel management system for in-house fueling. This in-house fuel system is still being fully operationalized at DSNY, which is why there are limited units reporting in from that agency for this report.

The report provided below excludes a small number of vehicles reporting under 5 mpg or over 60 mpg. These data points are outliers which represent some limitations in the reporting system involving older model units and other technical issues. This report provides slightly revised FY16 data based on some improvements in tracking.

This report includes hybrid plug in EV vehicles like the GM Volt (PHEVs) but excludes dedicated EV vehicles, like the GM Bolt (BEVs), which use no liquid fuels. The City has been working to expand the number of electric vehicles, both PHEV and BEV, and now operates over 1,200 EV units. The report also excludes compressed natural gas sedans, mostly at Parks and Health, which also do not use liquid fuel. The reduction in units reported in this report from NYC Parks is due to a large increase in electric vehicles that replaced gas units at that agency. Some of the results are as follows:

- Light duty vehicles such as sedans and SUVs are far more fuel efficient (over 130%) than medium duty such as pickups and vans. DCAS works with agencies to down-size and right-size fleet units wherever possible. **Hybrid units in FY2017 achieved double the fuel economy than their gas only versions.**
- Overall fuel efficiency increased between FY16 and FY17 among liquid fueled light and medium duty vehicles from 16.85 MPG to 18.5 MPG. This was a result of a further transition from gasoline only vehicles to hybrids and electric (PHEV) vehicles. The FY16 report covered 5,605 vehicles. The FY17 report covers 5,140 which reflects the transition to all electric vehicles which are not part of this report. It should be noted that the fuel efficiency of the light duty fleet is greater than 18.5 MPG since all electric vehicles which do not use fuel are not reported here.
- Plug in electric vehicles and hybrid electric vehicles achieve far greater use based fuel economy than gasoline vehicles. **A plug-in hybrid light duty vehicle such as the Chevy Volt is achieving over double the fuel economy of a regular gas light duty unit.** There was also an increase in MPG among electric/gas plug in vehicles from 26.82 in FY16 to 30.27 in FY17 due to an increased focus on using electricity instead of liquid fuels on these vehicles.
- *In FY17 the total miles driven for PHEVs and EVs in the NYC Fleet was 2.7 million miles more than in FY16. Pure EV miles exceeded 800,000 miles for the first time.* All EV units are not reported here.
- **Diesel pickups and vans remain more fuel efficient than gasoline pickups and vans.** Diesel units in the City fleet also utilize biodiesel blends of B5 and/or B20 and diesel particulate filters, further improving their emissions. In FY17 diesel pickup and vans had a 33% improvement in MPG over gasoline equivalent vehicles. Through an initiative supported by OMB the city is transitioning towards an increased number of diesel pickups and vans and will also be introducing the use of renewable diesel (RD) for the first time.

DCAS will use these results to further inform our sustainability efforts as part of the NYC Clean Fleet initiative.

2) Use based fuel economy report for FY16 (revised) and FY17

Local Law Report

2016 (Revised)

Agency	Count of Units
DCAS	2,379
DEP	1,010
DHMH	247
DOCN	17
DOTR	1,175
DPAR	773
DSNY	4
Total	5,605

2017

Agency	Count of Units
DCAS	2,386
DEP	917
DHMH	272
DOCN	9
DOTR	1,190
DPAR	358
DSNY	8
Total	5,140

Subgroup	Count of Units	Total Miles	Total Gallons	MPG
Light	3,890	28,087,702	1,431,867	19.62
Medium	1,715	9,952,457	826,117	12.05
Total	5,605	38,040,159	2,257,985	16.85

Subgroup	Count of Units	Total Miles	Total Gallons	MPG
Light	3,844	28,897,583	1,203,799	24.01
Medium	1,96	8,026,726	791,337	10.14
Total	5,140	36,924,309	1,995,137	18.51

	Count of Units	Total Miles	Total Gallons	MPG
Light	3,890	28,087,702	1,431,867	19.62
Plug-In	86	398,206	14,848	26.82
Hybrid	2,833	19,503,100	861,153	22.65
Gas	969	8,175,341	555,493	14.72
Diesel/Bio	2	11,055	373	29.63
Medium	1,715	9,952,457	825,930	12.05
Diesel/Bio	255	2,108,486	146,744	14.4
Gas	1,460	7,843,971	679,186	11.5
Grand Total	5,605	38,040,159	2,257,985	16.85

	Count of Units	Total Miles	Total Gallons	MPG
Light	3,844	28,897,583	1,203,799	24.01
Plug-in	160	832,396	27,497	30.27
Hybrid	2,731	19,833,592	629,336	31.52
Gas	953	8,231,057	546,966	15.05
Diesel/Bio	0	0	0	N/A
Medium	1,296	8,026,726	791,337	10.14
Diesel/Bio	130	745,178	59,398	12.55
Gas	1,166	7,281,548	731,940	9.95
Grand Total	5,140	36,924,309	1,995,137	18.51

