



**COUNTY OF SAN LUIS OBISPO**  
**CENTRAL SERVICES DEPARTMENT**  
**FLEET SERVICES**  
 Will Clemens *Director*

TO: Board of Supervisors

FROM: Will Clemens, Central Services Director

DATE: August 14, 2019

SUBJECT: Fleet Selection Criteria Policy Annual Progress Report

**BACKGROUND**

Your Board approved the Fleet Selection Criteria Policy on March 12, 2013. This policy tasks Fleet Services to purchase non-emergency fleet vehicles that provide the best available net reduction in fuel consumption and emissions. The policy also requires an annual progress report to be submitted with the Fourth Quarter Report.

**DISCUSSION**

The Central Services Director acts as Purchasing Agent, which includes the responsibility to administer the purchase of fleet assets. The purchase of county vehicles is authorized by County Code Section 2.36.120. This code provides the authority to purchase replacement fleet assets, as directed and approved by your board. The Fleet Selection Criteria Policy incorporates a lifecycle cost methodology used to purchase vehicles that provide the best available net reduction in fuel consumption and emissions.

Fleet Services replaced 53 of the qualifying 429 non-emergency vehicles during Fiscal Year 2013-14, 52 during FY 2014-15, 21 during FY 2015-16, 24 during FY 2016-17, 38 during FY 2017-18 and 36 during FY 2018-19. The resulting fuel economy of these 224 vehicles have improved 40.01% and the carbon production was reduced by 25.03%.

US Department of Energy Ratings		
Old	Average	New
<b>21.67</b>	Miles Per Gallon	<b>44.7</b>
<b>422.44</b>	Grams Per Mile (CO <sub>2</sub> )	<b>315.42</b>

FY 2018-19 Results

The outgoing vehicles replaced last year were driven a combined 418,717 miles during FY 2017-18. At this rate, the improved fuel economy will save 9,959 gallons of gasoline and over 44.8 million grams of CO<sub>2</sub> per year. Over the lifetime of these 36 vehicles, they will consume 90,385 fewer gallons of gasoline and will reduce carbon production by 293 million grams.

**County of San Luis Obispo Operations Center**

1355-A Kansas Avenue | San Luis Obispo, CA 93401 | (P) 805-781-5120 | (F) 805-781-1123

centralservices@co.slo.ca.us | slocounty.ca.gov

When combined with the vehicles replaced during the previous Fiscal Years, the annual fuel savings is 41,583 gallons along with a reduction of 257 Million grams of Carbon Dioxide. Extrapolated over the vehicle's lifetime, the County will save 352,619 gallons of gasoline with these new vehicles while reducing carbon production by approximately 1.81 Billion grams.

Financially, the fuel savings, at \$3.75 per gallon, will be \$155,936 per year and \$1,322,321 over the life of the vehicles replaced over the past six years.

CO <sub>2</sub> and Fuel COMBINED SAVINGS	Annual CO <sub>2</sub> Reduction	Lifetime CO <sub>2</sub> Reduction	Annual Fuel Savings	Lifetime Fuel Savings
FY 2013-14	<b>46 Million</b>	<b>425 Million</b>	<b>7,504</b>	<b>68,985</b>
FY 2014-15	<b>49 Million</b>	<b>396 Million</b>	<b>7,623</b>	<b>61,511</b>
FY 2015-16	<b>23 Million</b>	<b>189 Million</b>	<b>4,216</b>	<b>35,069</b>
FY 2016-17	<b>27 Million</b>	<b>189 Million</b>	<b>3,808</b>	<b>26,936</b>
FY 2017-18	<b>67 Million</b>	<b>317 Million</b>	<b>8,472</b>	<b>69,733</b>
FY 2018-19	<b>45 Million</b>	<b>293 Million</b>	<b>9,960</b>	<b>90,385</b>
<b>Total</b>	<b>257 Million</b>	<b>1.81 BILLION</b>	<b>41,583</b>	<b>352,619</b>

Carbon and Gasoline savings over past six Fiscal Years

This report uses data from the Central Services managed fleet and does not include County owned fleet assigned to Public Works or CalFire. It further excludes 19 emergency vehicles and 227 vehicles/equipment, such as off-road equipment, larger trucks, generators and trailers, which are not rated by the US Department of Energy.

**OTHER AGENCY INVOLVEMENT/IMPACT**

All departments participate in utilizing the fleet in some form. Departments and Fleet Services coordinate the regular replacement of assigned fleet assets as an ongoing service managed by the Fleet Services Manager.

**FINANCIAL CONSIDERATIONS**

Fleet Services performed a lifecycle cost analysis on each of these purchases to ensure that the ownership and operational cost provided enough savings to offset any increase in acquisition cost.

**RESULTS**

This policy mandated an improvement of the County's overall fuel economy, a reduction of CO<sup>2</sup> production and diesel NO<sup>x</sup> emissions. The actual fuel economy improved 40%, from 20.8 mpg to 29.1 mpg, which exceeds the 2.5 % per year goal since the inception of this fleet policy.