



# Purchase of Light-Duty Vehicles

City Council A Session - Item #9  
June 23, 2022

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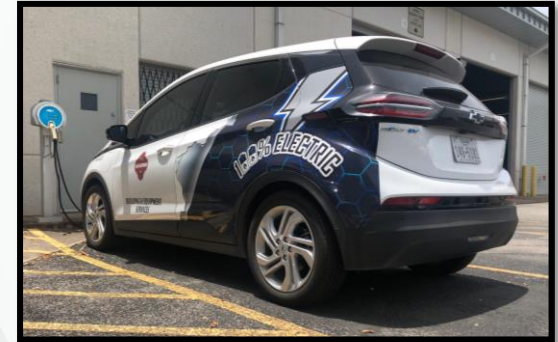
Presented by: Jorge A. Pérez | Director  
Building and Equipment Services



# Overview

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- Acceptance of five contracts with Cavender Grande Ford, Lake Country Chevrolet, Silsbee Ford, Silsbee Toyota, and Tesla, Inc.
- Purchase of 50 Light-Duty Vehicles
  - 15 all-electric trucks, sedans, & utility vehicles
  - 35 compact and mid-size hybrid sedans
- Total cost \$1,576,454
- Used by Public Works, CCDO, Development Services, Parks and Recreation, Police, Fire, Solid Waste, & Aviation



# Fleet Inventory



## FLEET SUMMARY

- Approx. 5,700 units in City's fleet
- Light-Duty Sedans & Trucks
- Refuse Trucks
- Med/Heavy Trucks & Equipment
- Light Equipment & Trailers
- Fire/Law Enforcement Units



## ALT FUEL FLEET

- 20 Battery Electric Vehicles
- 550 Conventional Hybrids
- 110 Propane Trucks & Equipment
- 8 CNG Trucks
- 100 Electric Carts & Forklifts



## EV INFRASTRUCTURE

- 35 Fleet charging ports over 7 locations
- EVSE Expansion project planned – 80 additional EVSE charging ports installed by 2024



# Fleet Sustainability Efforts

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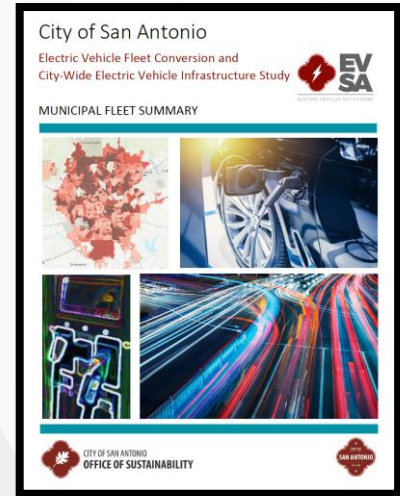
- Implement Sustainable Fleet Steering Committee
- Purchase more fuel efficient vehicles
- Down-size and right-size vehicles
- Reduce overall demand for vehicle use
- Focus on electric & hybrid vehicles
- Increase electric vehicle charging infrastructure





# Why Electric Vehicles?

- Align with Climate Action & Adaptation Plan
- Reduce fuel consumption
- Reduce greenhouse gas emissions
- Noise abatement
- COSA leading by example
- Embrace new EV technology
- Comparable vehicle performance





# Electric Vehicles for Police Use

- Law enforcement demand for electric vehicles is growing
  - New York City PD
  - Dallas County
  - Los Angeles PD
- SAPD testing will consist of:
  - Acceleration & Braking
  - Top speed
  - High-speed pursuit
  - Ergonomics
  - Emergency response handling





# Life Cycle Cost Analysis

Description	Continue Current Operations (8 Gasoline & 42 Hybrid)	Electrification of Vehicles (35 Hybrid & 15 BEV)	Savings
Vehicle Purchase Cost	\$1,382,458	\$1,576,454	(\$193,996)
Lifetime Maintenance Cost	\$420,516	\$313,740	\$106,776
Lifetime Fuel Cost	\$627,786	\$383,876	\$243,910
Infrastructure Development	\$0	\$46,667	(\$46,667)
Salvage Proceeds	\$281,882	\$380,193	\$98,312
TOTAL	\$2,148,878	\$1,940,544	\$208,335



# Recommended Action

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- Staff recommends approval of five contracts to purchase 50 light-duty vehicles from Cavender Grande Ford, Lake Country Chevrolet, Silsbee Ford, Silsbee Toyota, and Tesla, Inc. for a total cost of \$1,576,454.







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