

FREMONT POLICE DEPARTMENT



ELECTRIC VEHICLE PILOT PROGRAM

THE PROGRAM

SEPTEMBER 2021 UPDATES

In 2019, Fremont Police Department (FPD) deployed its first fully electric-powered vehicle (EV) as part of its patrol fleet. After a year of data collection, results found that the pilot vehicle, a used 2014 Tesla Model S 85, exceeded performance and operational objectives, withstood the rigors of police use required minimal maintenance, and was cost-effective when factoring in the overall cost of the vehicle with maintenance and fuel savings. To date, FPD has acquired one additional fully electric patrol vehicle, a new 2020 Tesla Model Y, deploying in September 2021.

VEHICLE COMPARISON



2014 TESLA MODEL S 85

- RWD
- 85 kWh battery
- 265 miles range (EPA)
- 5.4 seconds 0-60 mph
- Mileage when acquired: 26,471
- Selling Price: \$55,800
- Cost inc. tax & fees: \$61,478.50
- Purchase Invoice Paid: Dec 2017
- Possession Date: Jan 2018



2020 TESLA MODEL Y

- Long Range AWD, dual motors
- 74 kWh battery
- 316 miles range (EPA)
- 4.8 seconds 0-60 mph
- Mileage when acquired: N/A
- Selling Price: \$52,290
- Total Cost inc. tax & fees: \$57,126.83
- Purchase Invoice Paid: July 2020
- Possession Date: July 2020

MODIFICATIONS MADE TO BOTH VEHICLES

- Overhead light-bar and siren
- Headlight and rear flashers
- Equipment console and electronics tray
- Mobile digital computer and mounting system
- Police vehicle radio
- Vehicle camera
- Push-bumper
- Prisoner partition
- Prisoner seat
- Ballistic door panels for driver and front passenger doors
- Trunk lights
- Driver & passenger spotlights (Model Y only)
- Pushbar spotlight and wheel well lights (Model S 85 only)

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PROGRAM RECAP

- The results from the one-year Electric Patrol Vehicle Pilot Program are encouraging as the City of Fremont continues to look for cost-effective ways to help make Fremont more sustainable and achieve long-term carbon neutrality by 2045.
- The Tesla Model S 85 yielded an average of 27 fewer days of downtime per year, a savings of \$2,147 in the total annual cost of energy/fuel, maintenance, and repair, and a reduction of 42,198 lbs. of operational carbon dioxide emissions. These results have prompted Fremont PD to move forward with plans to expand its fleet of electric patrol vehicle alternatives, including the newly deployed Tesla Model Y. For the coming fiscal year, FPD ordered three 2022 Ford Explorer hybrids as well as two Ford Mustang Mach-E EVs to be used as unmarked vehicles for sworn administrative assignments.
- This year, FPD added one additional charger to accommodate the new Model Y. Looking to the future, 23 dual port level 2 chargers and 1 direct current (DC) fast charger are projected to be needed at the Fremont Police Department complex to accommodate long-term fleet vehicle electrification into 2023 and beyond.
- To download the report and find additional information about the Tesla pilot project, visit fremontpolice.gov/ElectricVehicle

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