

STARLORD

# FLEET ELECTRIFICATION

PILOT PROGRAM =



IN PARTNERSHIP WITH

TESLA

UPFIT

STARLORD

# FLEET ELECTRIFICATION PILOT PROGRAM

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A FINANCIALLY RESPONSIBLE, OPERATIONALLY SOUND, GRANT-SUPPORTED PILOT PROGRAM



**SURREY**  
POLICE SERVICE



TESLA



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# WHY BC?



98%+ RENEWABLE ELECTRICITY



LOW-COST HYDRO POWER



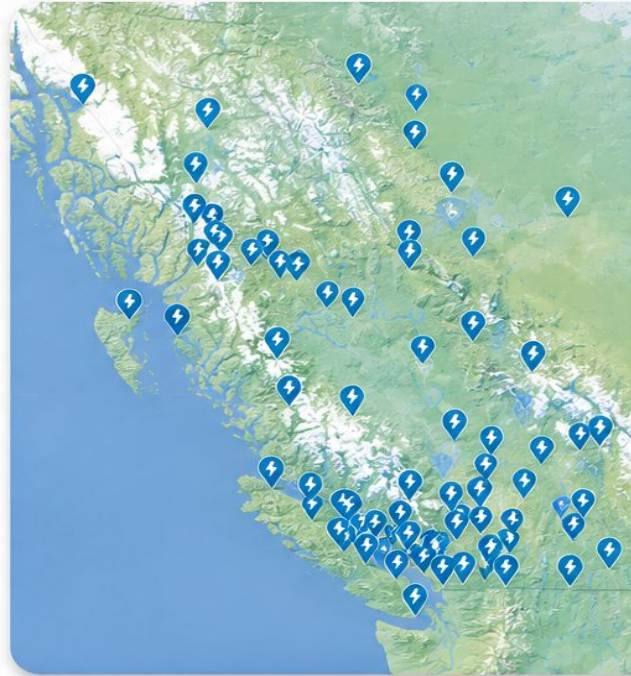
EXISTING CHARGING INFRASTRUCTURE



PROVINCIAL ELECTRIFICATION LEADERSHIP



STRONG BC HYDRO PARTNERSHIP



## BC'S ELECTRIC HIGHWAY



# WHY NOW?



**SURREY IS UNIQUELY POSITIONED**



**FASTEST GROWING CITY IN BC**



**NEWEST MAJOR POLICE SERVICE IN CANADA**



**STRONG BC HYDRO RELATIONSHIP**

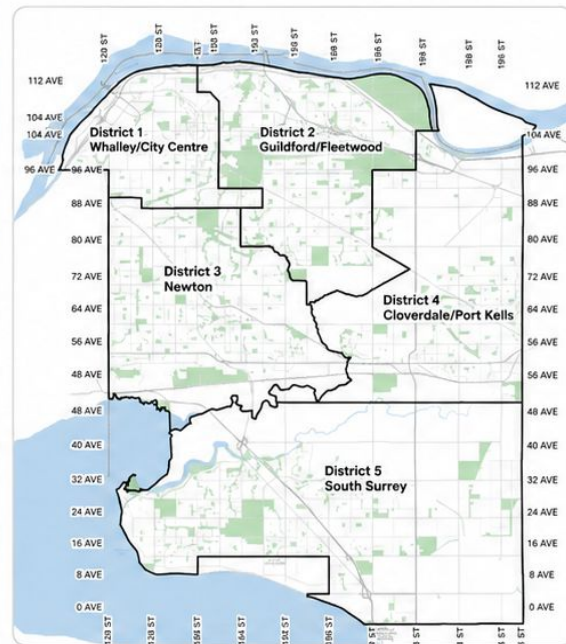
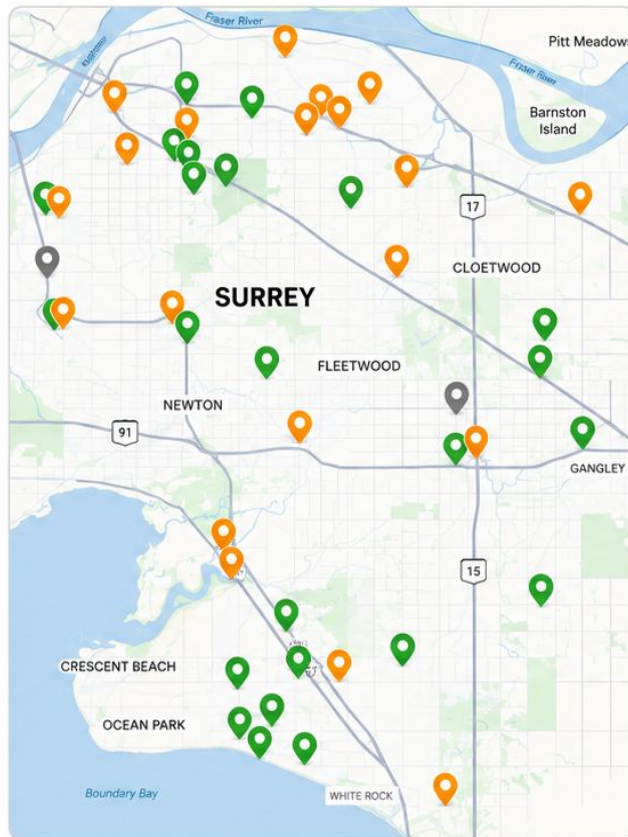


**PROVINCIAL & FEDERAL FUNDING AVAILABLE**



**OPPORTUNITY TO BECOME NATIONAL CASE STUDY**

**LEAD. MEASURE. VALIDATE. SCALE.**



**Centre Newton**

7288 King George Boulevard,  
Surrey, BC, V3W 5A5



**Surrey Arts Centre**

13750 88 Avenue,  
Surrey, BC, V3W 3L1



**Newton Seniors Centre**

13775 70 Avenue,  
Surrey, BC, V3W 0E1



**Surrey, BC - 72 Ave Supercharger**

12161 72 Avenue,  
Surrey, BC, V3W 2M1



**BC Hydro - Surrey - Arts Centre**

13750 88 Avenue,  
Surrey, BC, V3W 3L1








S T A R L O R D

# CURRENT SPS FLEET CHALLENGE


















## QUESTIONS WE NEED TO ANSWER

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-  What is the true 10-year cost of ownership?
-  Can EVs reduce maintenance costs?
-  Can EVs improve fleet uptime?
-  Can grants reduce taxpayer costs?
-  Should SPS consider future electrification?



# TESLA MODEL Y vs FORD INTERCEPTOR

CATEGORY	TESLA MODEL Y	FORD INTERCEPTOR
		
 FUEL	 LOWER	 HIGHER
 MAINTENANCE	 LOWER	 HIGHER
 OIL CHANGES	 NONE	 REQUIRED
 SOFTWARE UPDATES	 YES	 LIMITED
 ACCELERATION	 FASTER	 GOOD

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# WHY THIS MATTERS

## ILLUSTRATIVE EXAMPLE

 **\$70,000** potential savings per vehicle

 **68** vehicle fleet

 **Potential** multi-million dollar lifecycle savings

 **Grants** may reduce infrastructure costs

 **THEN:**  
**PILOT FIRST. DECIDE LATER.**



### MAKE A SMART, DATA-DRIVEN DECISION.

A pilot allows Surrey Police Service to validate real-world performance, operational fit, and total cost of ownership—before full-scale commitment.



**PILOT TODAY.  
STRONGER TOMORROW.**

THE FINANCIAL IMPACT IS SIGNIFICANT

POTENTIAL SAVINGS PER VEHICLE

**\$70,000**

FLEET SIZE

**68**

POTENTIAL LIFECYCLE SAVINGS

**MULTI-MILLION DOLLARS**



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# PHASE 1 PILOT PROGRAM

## 6 Vehicles

- 4 Tesla Model Y Patrol Units
- 2 Tesla Cybertruck Special Operations Units

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### 4 TESLA MODEL Y PATROL UNITS



### 2 TESLA CYBERTRUCK SPECIAL OPERATIONS UNITS



S T A R L O R D

# WHAT WE WILL MEASURE



Vehicle Performance



Officer Acceptance



Maintenance Costs



Energy Costs



Charging Requirements



Fleet Uptime



Public Response



WE WILL CAPTURE DATA. → WE WILL DRIVE **SUCCESS.**



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# THE BUSINESS CASE

## WHY EVALUATE EV PATROL VEHICLES?



Reduced Fuel Costs



Reduced Maintenance



Reduced Downtime



Increased Technology Capability



Potential Long-Term Savings

BIG VISUAL:

## MODEL Y vs FORD INTERCEPTOR



VS



**EVALUATE TODAY. INFORM TOMORROW. SAVE FOR THE FUTURE.**

A data-driven pilot to determine real-world performance, total cost of ownership, and operational fit for SPS.

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# POTENTIAL FUNDING PARTNERS

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## GRANT & INFRASTRUCTURE OPPORTUNITIES



Fleet Planning



Infrastructure Support



Go Electric Programs



ZEV Infrastructure Funding

# IT'S TIME.

MAY 4, 2027 - 11 AM  
SURREY CITY HALL, SURREY BC



CONCEPT ONLY



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# CASE STUDY

## SOUTH PASADENA POLICE



### FIRST ALL-ELECTRIC POLICE FLEET

- ✓ Lower Operating Costs
- ✓ Reduced Maintenance
- ✓ Positive Officer Feedback
- ✓ Significant Fuel Savings



### KEY LESSON

Tesla Patrol Vehicles Work.



### REAL RESULTS. PROVEN PERFORMANCE.

South Pasadena Police demonstrated that an all-electric fleet delivers operational excellence and meaningful savings.



LOWER COSTS



REDUCED MAINTENANCE



OFFICER APPROVED



SIGNIFICANT SAVINGS

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# CASE STUDY

## LAS VEGAS POLICE

### CYBERTRUCK DEPLOYMENT



Recruiting Tool



Community Engagement



Media Visibility



Public Relations Asset



#### KEY LESSON

**More Than A Patrol Vehicle**



#### FOR IMMEDIATE RELEASE

On October 28, 2025, Sheriff Kevin McMahon unveiled 10 Tesla Cybertrucks for patrol use across the valley. The vehicles will be used by patrol officers and will carry tactical tools needed to assist the men and women of LVMPD on critical calls for service such as barricades and shootings. Each area command will receive a Cybertruck.

Since his election, the Sheriff has made it a priority to make LVMPD the most technologically advanced police department in the country. The introduction of Cybertrucks is a continuation of recent advances to include the Joint Emergency Training Institute, Drone First Responder Unit, and remotely operated drones.

The cost of the Cybertrucks was covered by a generous donation from Ben and Felicia Horowitz. No tax dollars were used to purchase or outfit these vehicles for patrol use.



**LVMPD WOULD LIKE TO THANK THE FOLLOWING BUSINESSES FOR THEIR ASSISTANCE:**



**UNPLUGGED PERFORMANCE AND UPFIT**  
For outfitting the vehicles for patrol functions



**INK AND ARCHITECTURAL EXPO**  
For wrapping the Cybertrucks

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# CASE STUDY

## IRVINE POLICE DEPARTMENT FIRST POLICE CYBERTRUCK PROGRAM



Community Engagement



Youth Outreach & D.A.R.E.



Recruitment & Hiring



Public Safety Education



Positive Media Attention



### KEY LESSON

#### More Than A Patrol Vehicle

A community engagement, recruitment, and public safety platform.



### ATTRACT ATTENTION

First police department in the world to deploy the Tesla Cybertruck.



### ENGAGE YOUTH

Used for D.A.R.E. and community outreach events.



### BUILD TRUST

Strengthens connections and visibility within the community.



### DRIVE RECRUITMENT

Modern, innovative policing that inspires the next generation.

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# CASE STUDY



## NORWAY

THE WORLD LEADER  
IN ELECTRIC VEHICLES



**19.1%**

**MARKET SHARE**

Tesla is the top-selling car brand in Norway.



**1 IN 5**

**NEW CARS SOLD IS A TESLA**

Nearly one in five new cars registered.



**#1**

**TOP-SELLING CAR BRAND**

Tesla leads the market in Norway.

### NORWEGIAN FLEET: DOMINATED BY TESLA



**MODEL Y**

THE BEST-SELLING VEHICLE IN NORWAY



**MODEL 3**

MAKING UP THE VAST MAJORITY OF THE FLEET



**GLOBAL LEADER**



**90%+**

OF ALL NEW CAR SALES ARE ELECTRIC



**CLEANER FUTURE**



**BETTER CHOICES**



**A SUSTAINABLE TOMORROW**

STARLORD CASE STUDY

# WHY MODEL Y?

## PATROL VEHICLE BENEFITS



FAST ACCELERATION



LOWER MAINTENANCE



LOWER ENERGY COST



SOFTWARE UPDATES



PROVEN POLICE PLATFORM





Partners with the Community

2301



**SURREY  
POLICE**

**CRIME  
STOPPERS**  
1-800-222-6477

**9-1-1**  
SURREY POLICE  
FOR ASSISTANCE  
844-947-2337

# WHY CYBERTRUCK?

## STRATEGIC COMMUNITY PLATFORM

- Recruitment
- Schools & Youth Programs
- Public Events
- Community Engagement
- Crime Prevention Programs

## KEY ADVANTAGE

More Than A Patrol Vehicle





2301



SURREY  
POLICE

PARTNERS WITH THE COMMUNITY

CRIME  
STOPPERS  
1-800-222-8477

CALL 9-1-1  
EMERGENCY

# PILOT INVESTMENT

## ESTIMATED BUDGET

ITEM	COST
4 MODEL Y	\$520,000
2 CYBERTRUCK	\$440,000
CHARGING INFRASTRUCTURE	\$150,000
TRAINING & DEPLOYMENT	\$40,000
CONTINGENCY	\$50,000
<b>TOTAL</b>	<b>~\$1.2M</b>



# PROPOSED TIMELINE

**2026**

**PLANNING & DEPLOYMENT**

- FUNDING
- PROCUREMENT
- CHARGING INFRASTRUCTURE
- VEHICLE DELIVERY
- OFFICER TRAINING

**2027**

**PILOT OPERATIONS**

- 4 MODEL Y PATROL UNITS
- 2 CYBERTRUCK COMMUNITY UNITS
- DATA COLLECTION
- PERFORMANCE MONITORING

**2028**

**EVALUATION & RECOMMENDATION**

- FINAL REPORT
- COST ANALYSIS
- OPERATIONAL REVIEW
- RECOMMENDATION TO EXPAND, MODIFY OR CONCLUDE



# RECOMMENDATION

PROCEED WITH PILOT



4 TESLA  
MODEL Y



2 TESLA  
CYBERTRUCK



BC HYDRO  
PARTNERSHIP



TESLA  
PARTNERSHIP

*UP.FIT*

UP.FIT  
PARTNERSHIP



INDEPENDENT  
PERFORMANCE REVIEW





# SPS DELIVERABLES

AT END OF PILOT

- ✓ COST ANALYSIS
- ✓ MAINTENANCE ANALYSIS
- ✓ OFFICER SURVEY
- ✓ CHARGING STUDY
- ✓ PUBLIC FEEDBACK
- ✓ TOTAL COST OF OWNERSHIP REPORT
- ✓ EXPANSION RECOMMENDATION





**UP.FIT**

NEXT-GEN PATROL

# QUESTIONS

