

## E-Mobility Technical Study

2024-SEP-09

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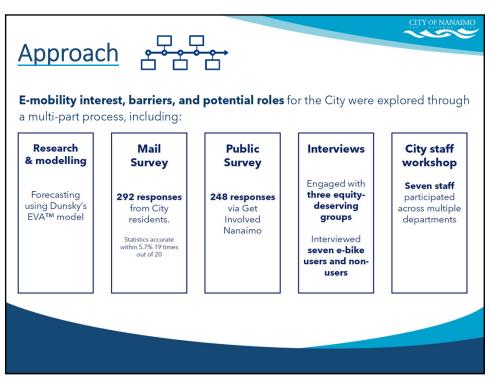


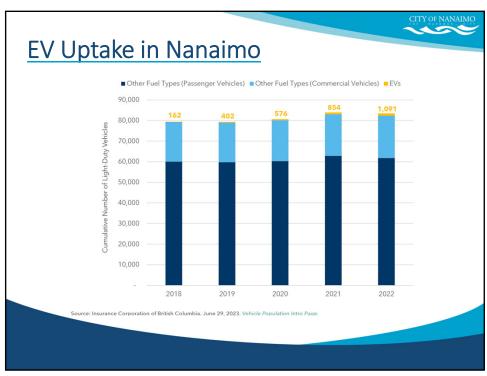
- Better understand the current state and desired future state
- Identify barriers and opportunities
- Explore potential role of the City

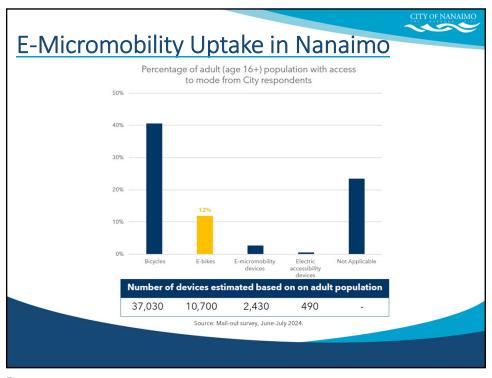


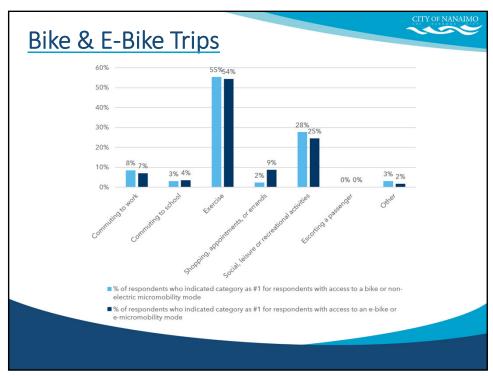


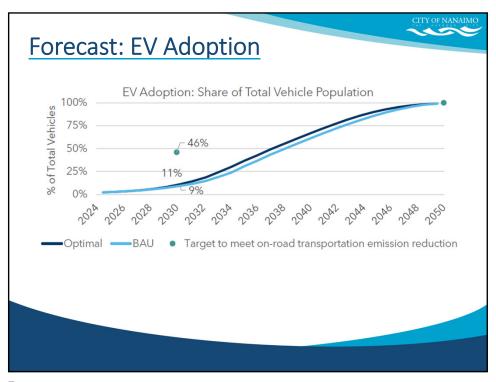
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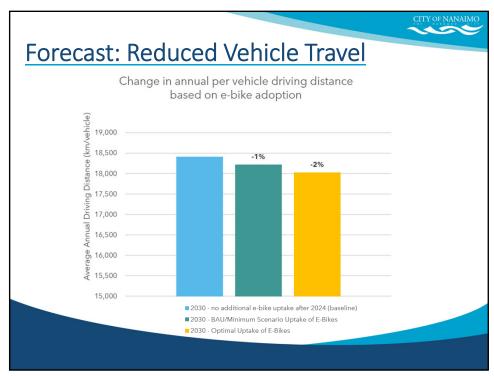














### **Equity**

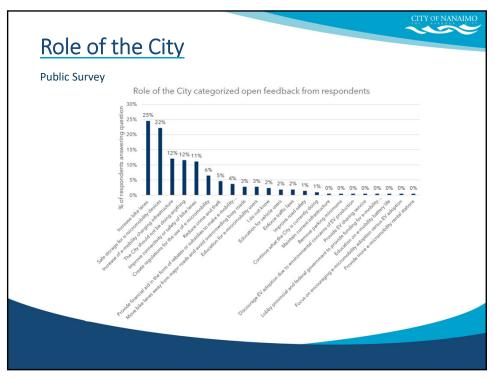
Cars, electric or otherwise, remain out of reach for many.

Equity-deserving group representatives were united in the need to prioritize e-micromobility over EV investment to support equity-deserving communities.

### **Benefits**

Lower transportation costs is identified as a top benefit of using an EV or E-bike.





		Rating <sup>1</sup>	Barriers Addressed	
			1. Lead in the gaps (recommended)	2. Lead on e- micromobility
	A. Affordability	•		☑
E-IMICIOMODIIIIY BATHEIS	B. Accessibility, comfort, ability, and familiarity with mode	•	☑	☑
9	C. Access to secure e-micromobility parking and charging	•	☑	☑
	D. Access to travel routes and infrastructure designed for micromobility	•	☑	☑
	E. Access to safe and appropriate travel routes and infrastructure	•	☑	☑
2	F. Uncertainty/lack of awareness on definitions/regulations/legislation	0		☑
	G. Automobile-dominant culture	•		☑
	H. Travel conditions (challenging weather or terrain)	•		☑
	A. Affordability	•		
	B. Availability of new and used EVs <sup>2</sup>	•		
n	C. Availability of EV models to persons with disabilities	•		
EV Darriers	D. Lack of knowledge and experience with EVs	0		
0	E. Ability to charge at home <sup>3</sup>		☑	
,	F. Ability to access EV-charging support programs	•		
	G. Ability to use public charging	0		
	H. Cost and time burden to use public charging	_		



# Update on Provincial E-Bike Incentive Program

The 2023 provincial e-bike incentive program provided a total of 112 rebates to Nanaimo residents with the following breakdown:



Rebate Amount		Number of Rebates Granted	
	\$350	6	
	\$1,000	14	
	\$1,400	92	
Total	\$144,900	112	

13

### Recommendation

#### That Council:

- adopt a "Lead in the Gaps" approach on e-mobility as recommended in the E-Mobility Landscape and Options for Nanaimo Technical Report (Attachment A); and,
- direct staff to identify key actions to address all critical barriers identified in the E-Mobility Landscape and Options for Nanaimo Technical Report and report back to Council for consideration, and as a first step:
  - a) prepare a business case for consideration for the 2025-2029 Financial Plan to provide long-term, sustainable resources to improve active transportation networks; and,
  - b) leverage external funding and partnerships to expand and improve electric vehicle charging infrastructure in the role of a facilitator, partner, and/or landowner.





