Q. **Reference: Replace Light-Duty Vehicles (2027-2028); Responses to CA-NLH-065 and PUB-NLH-033**

Provide an economic analysis to compare the operating cost savings, such as fuel cost and maintenance over the expected life of internal combustion engine powered light-duty vehicles, with any premium in purchase price for EVs.

A. The economic analysis to compare the forecast total cost of ownership between an internal combustion engine ("ICE") and electric vehicle ("EV") pickup truck is provided in Table 1. The analysis shows that, based on current assumptions and despite the higher initial cost, the EV pickup truck provides approximately $15,000 in savings over the life of the vehicle.

Table 1: Cost-Benefit Analysis – ICE vs. EV Pickup Truck

Alternatives	Cumulative Present Worth ("CPW")	CPW Difference between Alternative and the Least Cost Alternative
Purchase 2026 Chevy Silverado EV	79,454	-
Purchase 2026 Chevy Silverado 1500 Gas Truck	94,467	15,013

The analysis is based on the following information and assumptions:

- ICE Assumptions: $58,000 purchase price, 200,000km driven over seven years, gasoline price of $2.00/L, manufacturer fuel economy ratings, and annual maintenance cost of $2,028 per year.
- EV Assumptions: $86,190 purchase price, 200,000km driven over seven years, electricity at Newfoundland and Labrador Hydro's ("Hydro") 2025 marginal system cost of energy,[1] manufacturer fuel economy ratings, and annual maintenance cost of $912 per year.

[1] In addition, when using Hydro's marginal cost of energy and capacity the EV pickup continues to be least-cost, providing approximately $12,000 in savings over the life of the vehicle.