

LIFECYCLE COMPARISO

# 2026 Niro EV vs. PHEV

An Analysis of Sustainability and Economics on a 90% Clean Electricity Grid.

# 2026 Acquisition Breakdown (CAD)

Metric	Kia Niro EV (Full Battery)	Kia Niro Plug-In Hybrid
Base Vehicle Price	\$41,561	\$39,435
Federal iZEV Incentive	- \$5,000	- \$2,212
<b>NET ACQUISITION COST</b>	<b>\$36,561</b>	<b>\$37,223</b>

✔ **Financial Edge: The EV is \$662 cheaper to acquire from Day 1.**

# Direct Platform Comparison

The 2026 Niro lineup offers two electrified choices, but the engineering philosophy differs significantly between "Full Electric" and "Hybrid" technology.

## PLATFORM SELECTION

### Full Electric (EV)

Maximizes the 90% clean grid potential.



## PLATFORM SELECTION

### Plug In Hybrid (PHEV)

Retains mechanical dependence on liquid fuels.  
Estimated Electric Range 55km



# 250,000 km Energy Expenditure

Niro PHEV (Gas + Elect.)

\$9,288 CAD

Niro EV (90% Clean Grid)

\$2,625 CAD

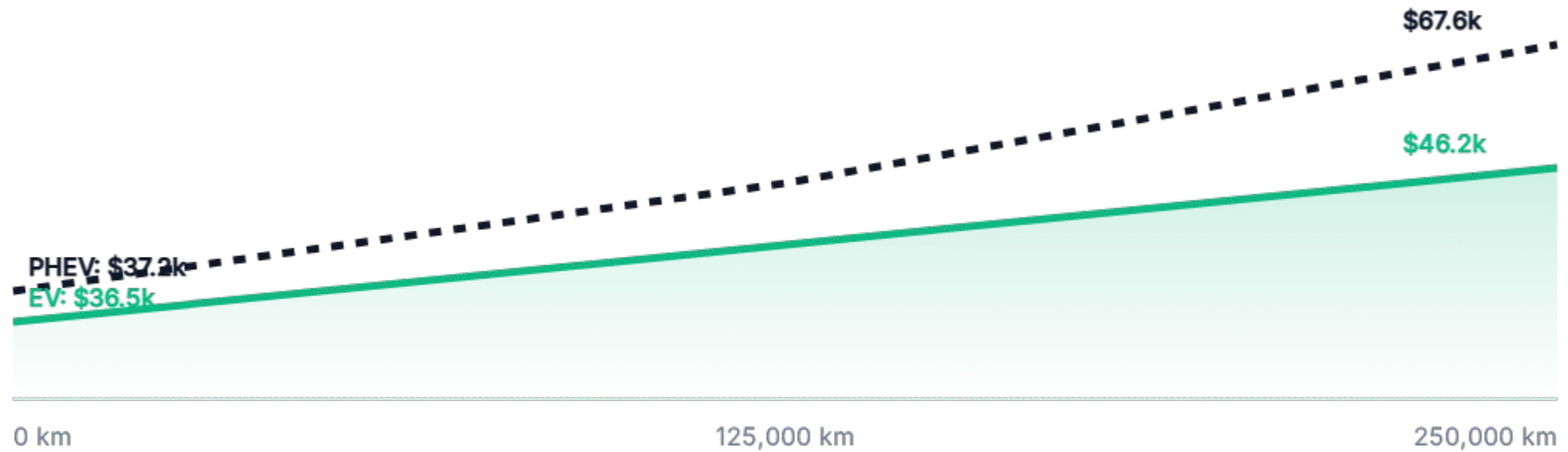
**Economic Multiplier:** At 250,000 km, the EV provides a \*\*\$6,663 energy dividend\*\*. By leveraging home charging, you bypass the volatility of \$1.50/L gasoline prices.

# Maintenance: High Mileage

Category (250,000 km)	Niro EV	Niro PHEV
Fluid Services (Oils, Radiators)	\$800	\$3,200
Engine Components (Plugs, Filters)	\$0	\$2,400
Tire Budget (5 Cycle Lifecycle)	\$4,400	\$3,800
<b>TOTAL PROJECTED MAINTENANCE</b>	<b>\$7,000</b>	<b>\$11,000</b>

*\*Maintenance gap of \$4,000 driven primarily by gasoline engine wear and tear over 15 years.\**

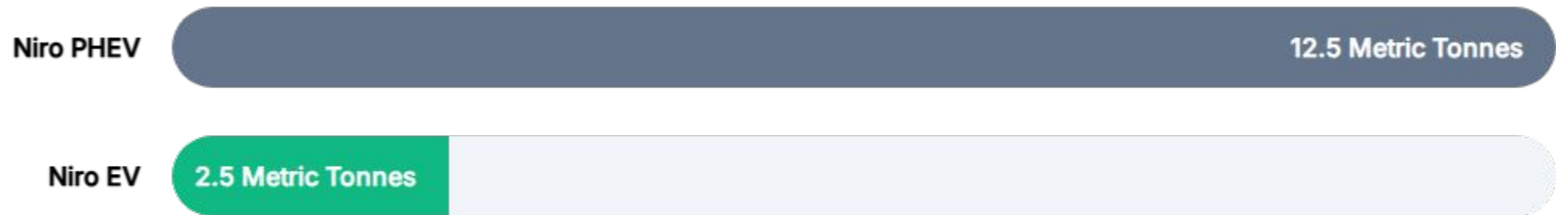
# Cumulative Cost Trajectory



**Zero Break-Even Path: The EV starts and remains the lower-cost asset.**

# Sustainability: 90% Clean Grid

Impact over 250,000 km with \*\*90% Clean / 10% Natural Gas\*\* generation.



**80% Emissions Reduction:** By transitioning to the EV on a 90% clean grid, you eliminate \*\*10 metric tonnes\*\* of CO2. This is the equivalent of preserving 4,000 square meters of mature forest.

# Total Lifecycle Value

**\$21,410**

**TOTAL CAD PROFIT**

## Conclusion

The Niro EV is the clear strategic choice. By saving \$662 at acquisition and \$20,748 over its 250,000 km lifespan, you generate enough profit to effectively pay for 60% of its own original price.

**Maximum Efficiency. Minimum Liability.**

**“ The cheapest, cleanest kilometer is the one not powered by a tailpipe. ”**

Strategic Automotive Outlook, 2026

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