

Transition to Zero Emissions



- Energy Strategy and Implementation Plan 2020 to 2025

- Delivery Program Strategy 2.2.6

Council utilises a modern and efficient plant fleet that meets operational need

- CSP Objective 6.1

We achieve net zero emissions

- This is a comprehensive document that addresses all segments of the fleet transition to zero emissions
- It identifies short, medium and long term goals and provides a road map and timeframes to assist with the transition to zero emissions

Table 18: When to expect electric vehicles to achieve TCO parity

Asset segment	Estimated TCO parity for EVs	Asset segment	Estimated TCO parity for EVs
Large Passenger	2025/26	Medium SUV	2025/26
Medium Passenger	2024/25	Small SUV	2024/25
Small Passenger	2023/24	LCV Ute	2026/27
Light Passenger	2022/23	LCV Van	2026/27
Large SUV	2026/27	LCV Commuter (Bus)	2026/27

Transition Limitations

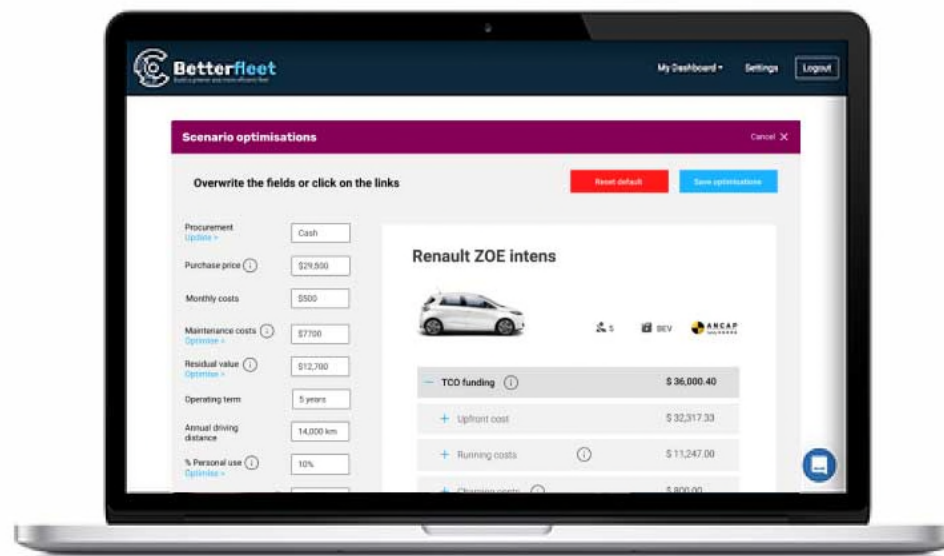
- Distance



- Towing Capacity



- Residual values = RedBook
- Fuel = Australian Automotive Association
- Electricity Costs = Compare best electricity rates and Solar Choice
- FBT



Choosing Appropriate Vehicle and Considering the Total Cost of Ownership

- Purchase
- Operation
- Disposal
- Represented in cents per km



Comparison Report

 **Betterfleet** BEV Comp

Project opened: 01/09/2022 Vehicle Purpose: Comparison
Target Replacement: 01/09/2022

Procurement summary

Design	Make	Model	Type	Year	Variant	term	Annual Distance	Purchase cost	TCO/km	Running cost/km	Tailpipe CO2/km	WTW CO2/km	Electric Range
	Mazda	CX-8	ICE	2020	Sport KG Series Auto FWD	4	20000 km	\$36,282	\$0.64	\$0.26	187 g	238 g	null km

Increase in Capital Cost



Model	Cost \$ GST Ex	Director's Limit	Staff Limit	Differential
Polestar 2	49,578.18	40,000.00		9,578.18
			35,000.00	14,578.18
Hyundai Kona	52,890.90	40,000.00		12,890.90
			35,000.00	17,890.90
Tesla Model 3	60,660.90	40,000.00		14,536.36
			35,000.00	19,536.36

Total Cost of Ownership over 4 year period

Model	Ownership Period	TCO Per Km
Tesla Model 3	4 years	\$0.28
Polestar 2	4 years	\$0.35
Hyundai Kona	4 years	\$0.42
Mazda CX-5	4 years	\$0.51
Isuzu MU-X	4 years	\$0.55
Mazda CX-8	4 years	\$0.64

Recommendation

- That Council adopts a Policy that allows a higher purchase price for electronic vehicles (EVs) when the total cost of ownership over a four year period is no more than the approved range of internal combustion engine vehicle options.
- That approval be given to the Chief Executive Officer to alter the Policy when considered advantageous with new technology and government incentives that do not increase the total cost of ownership to Council.
- That the Draft Zero Emissions Fleet Strategy and Implementation Plan be modified to reflect Council's strategy on the implementation of EVs into the fleet and be placed on public exhibition for a period of 28 days.