



Fleet Transition Pathways Report

A strategic roadmap for Harbour City Services



Harbour City Services is a fictional organisation. The fleet data and results in this report are illustrative and have been prepared to demonstrate Quartz Shift's reporting approach. Some pages have been intentionally blurred.



Table of contents

Who we are	4
Executive summary	5
Key takeaways	6
Fleet snapshot	8
EV readiness assessment	9
Fleet transition pathways	10
Recommended scenario	11
Scenario comparison	12
Capability	14
Capex	15
Opex	16
Fuel shock exposure	17
Operational risk	18
Charging strategy	19
Charging mix	20
CO ₂ tailpipe emissions reduction	21
Conclusion	23

Who we are

Founded in 2006, **Greenfield** is a specialist advisory firm within leading organisations with expertise in business development, strategic distribution, the approach to business development, sales strategy, and marketing, and capability planning across product, operational and supply.

We represent specialist companies that are innovative, including capability planning, strategy, product and sales, work with senior and first managers across government and industry.



John Smith, Director

Working alongside leading industry experts, alongside specialist in-depth advice and the right opportunities.

We work closely with senior leaders, including executives and business leaders, to develop business strategy and sales, ensuring organisations can develop operations, financial and strategic implications of new business plans.

Key takeaways

The assessment recommends Planned Transition as the reference pathway. Cost outcomes are effectively neutral, with 8-year Total Cost of Operations (TCO) 0.1% better than business as usual.

Peak electrification reaches 39.0% of the fleet. By the end of the horizon, annual operating costs are 9.6% lower.

Planned Transition is broadly cost neutral on 8-year TCO. Lower operating costs more than offset higher charging infrastructure and vehicle depreciation costs.

The recommended pathway achieves a partial fleet transition, peaking at 16 plug-in electric only battery electric vehicles (EVs) out of 41 fleet vehicles (39%).

Three uses face genuine operational blockers, specifically EV replacements cannot meet towing requirements. Market and technology development may unlock these over time.

EV uptake is front-weighted, with most adoption in the early years. The cost case becomes more supportive from 2027 onward.

Capital peaks in the first year of implementation, front-loading investment pressure; however operating savings emerge early, and running costs are lower by the end of the period.

Chart 1 - Cumulative TCO by year, by scenario

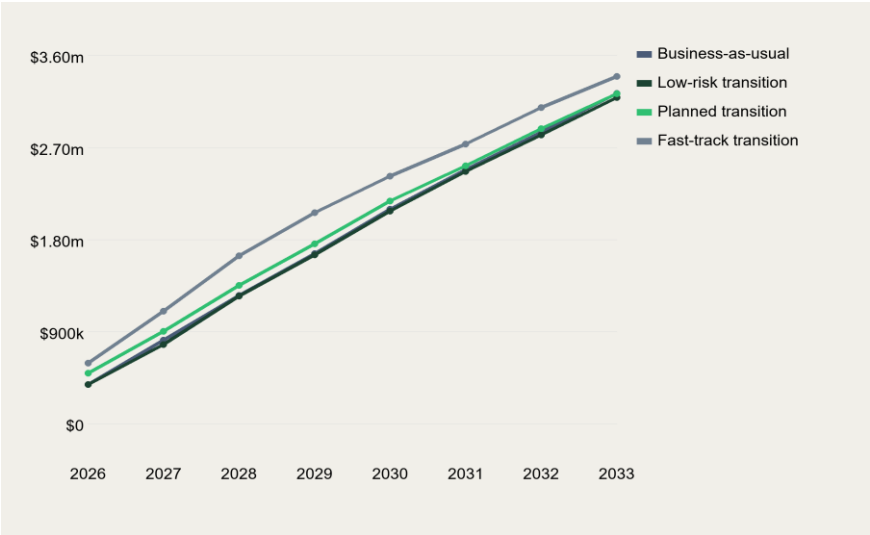


Chart 2 - Projected EV share by scenario

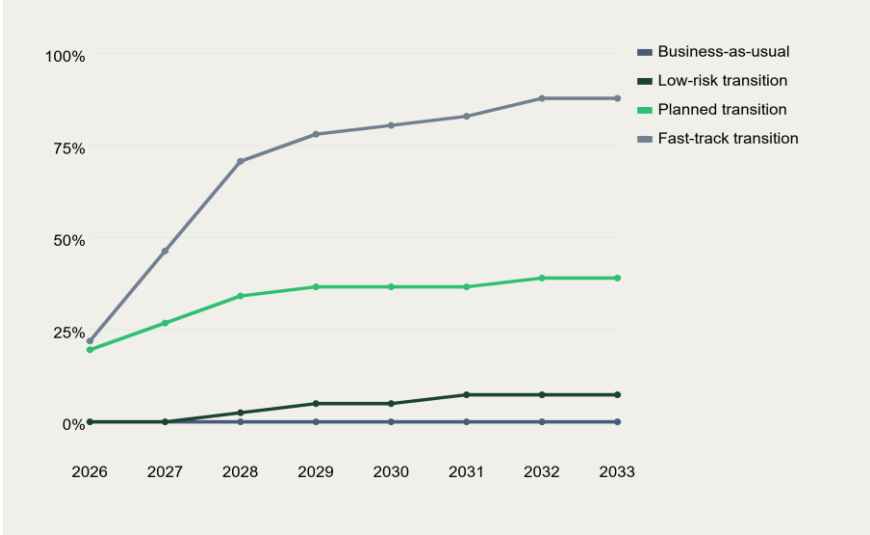


Table 1 - Recommended scenario execution profile

Metric	Value
Recommended scenario	Planned transition
Net present value (NPV) vs BAU	\$8k lower
Lifetime TCO	\$4k savings
Additional capital required	\$58k
Tailpipe emissions reduction	403 tCO ₂
Fleet electrified	39%
Transition risk	Moderate

Fleet snapshot

Your fleet

The fleet is weighted toward passenger vehicles and SUVs, which means the transition pathway should be governed by those duty cycles rather than a generic passenger-vehicle policy.

A material near-term replacement wave is visible, creating an opportunity to lock in EV-ready choices before ageing assets force reactive like-for-like renewals.

Examples in the client fleet include Toyota Corolla (Passenger), Hyundai i30 (Passenger), Ford Ranger (Ute), Toyota Rav4 (SUV) - grounding the transition pathway in the actual vehicles being operated rather than a generic vehicle profile.

Table 2 - Fleet snapshot

Vehicle class	Fleet count	Mean daily km	Mean towing	Mean payload	Mean CO ₂	Fuel mix
Passenger vehicles	21	55	0 kg	0 kg	144 g/km	Petrol 16, Hybrid 5
SUVs	15	70	0 kg	230 kg	159 g/km	Petrol 7, Hybrid 6, Diesel 2
Utes	5	79	1,500 kg	0 kg	210 g/km	Diesel 5

EV readiness assessment

Electricity infrastructure is critical to driving EVs. The readiness is shown by electricity production, cost, reliability, delivery and use for the entire nation.

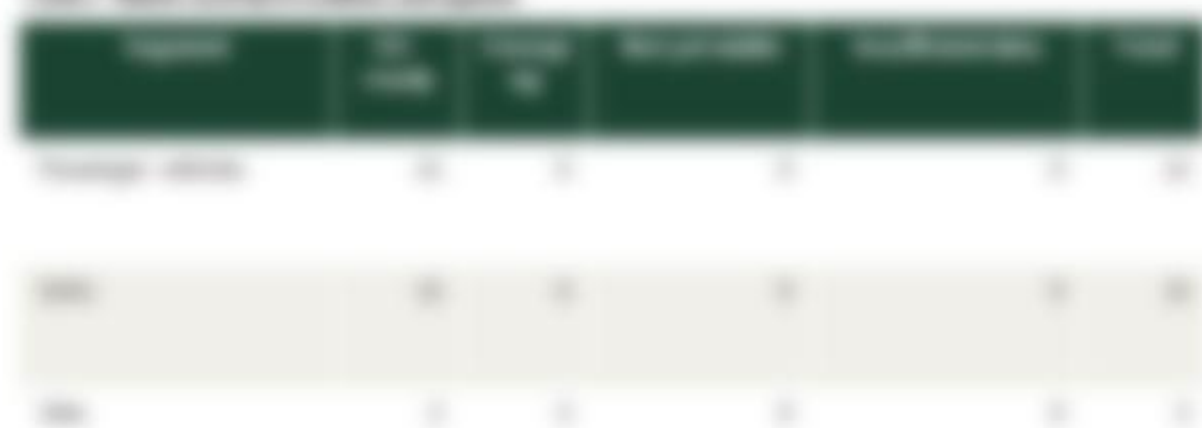
Using the standardized electricity distribution is considered a measure of electric grid use. The ability of the entire system to meet regional needs is the readiness for EV.

Electricity demand from distribution could vary by season, but the overall capacity is the same.

Figure 1: EV readiness assessment for the entire nation



Figure 2: EV readiness assessment for the entire nation



Fleet transition pathways

Methodology

How it works

We take a data-driven, capability-first approach to fleet electrification. Rather than recommending individual vehicle models, we assess each vehicle in your fleet based on how it is actually used – including daily distance, payload, towing, and operating conditions.

From this, we create an “EV twin” for every vehicle. This represents a pool of electric equivalent vehicles in the current market, matched on real-world capability rather than brand or vehicle type. Where a direct match is not yet viable, or there is a thin emerging market, we clearly identify the specific gaps.

Our analysis draws on a wide range of curated datasets, including vehicle specifications, market pricing, operating costs, government charges, and energy tariffs.

We then model the different scenarios. Each scenario is assessed on net present value, total cost of ownership, operational fit, and implementation risk.

The result is a clear, evidence-based pathway that helps you understand what can transition today, what comes next, and where to focus for maximum impact.

Scenario descriptions

Business as usual: Replace vehicles on the existing replacement pathway, with ICE replaced by ICE and existing EVs remaining EVs.

Low-risk transition: Only transition vehicles where there is an EV-ready alternative with acceptable operational risk and sufficient market depth, and only when the vehicle is naturally due for replacement.

Planned transition: Bring forward transition ambition slightly where there are efficiencies in charging infrastructure installations. Allow measured adoption of emerging vehicle classes where plausible within roughly a three-year horizon.

Fast-track transition: An increased risk appetite is adopted by this scenario, with “Emerging” and “Not-yet-viable” vehicle classes adopted within the modelling period.

Recommended scenario

Planned transition

Why Planned Transition?

Cost: Near-best financial outcome, without the capital and delivery stretch attached to Fast-track transition.

Emissions: Strong reduction, clearly ahead of Low-risk transition without relying on Fast-track transition's maximum acceleration.

Capability: Acceptable trade-offs, with replacements kept inside a practical operating envelope.

Risk: Manageable implementation profile, avoiding Fast-track transition's high governance load.

Charging: Deliverable rollout, with staged site validation before any acceleration decision.

Why it beat Low-risk transition: the lower-change plan is useful for risk control, but it leaves too much transition value and emissions progress behind to be the base case.

Why it beat Fast-track transition: the faster plan remains an acceleration option, but its added capital, charging and governance complexity do not justify making it the default.

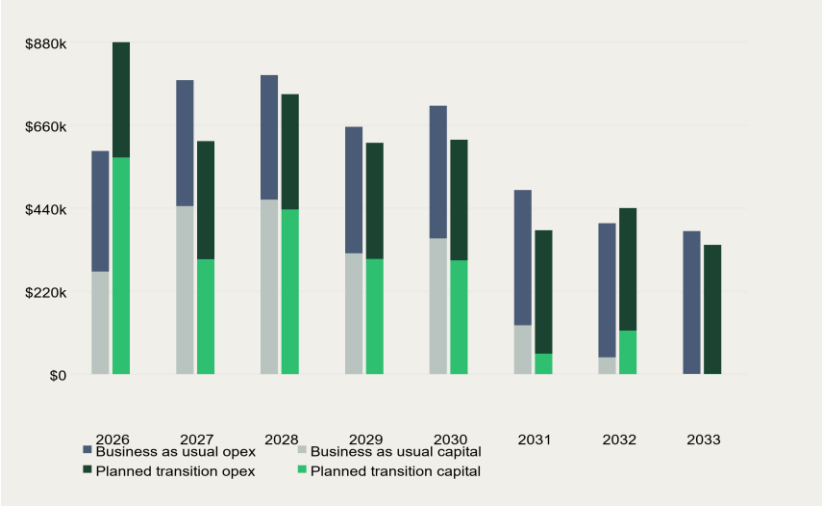
Table 4 - Recommended pathway outcome summary

Metric	Result
Fleet electrified	39.0%
Additional EVs	16
Tailpipe emissions reduction	403 tCO ₂
High risk vehicles	0

Table 5 - Recommended EV replacements by segment

Vehicle segment	EV replacements
Passenger vehicles	7
SUVs	7
Utes	2

Chart 4 - Annual TCO, BAU vs recommended scenario



Scenario comparison

Financial impact

Over the assessment period, Planned Transition has a total cost of ownership of \$3.23m compared with \$3.23m under Business as Usual, a difference of \$4k (0.1%). This broadly maintains total fleet cost.

The largest savings are from lower vehicle operating costs (\$195k). The largest additional costs are charging infrastructure (\$156k) and retained value (\$156k).

Additional capital is highest in 2027, when the annual increment reaches \$303k. Operating savings first appear in 2026, and annual operating costs are lower by \$36k in 2033.

Across feasible transition pathways, total TCO ranges from \$3.19m for Low-risk transition to \$3.23m for Planned transition, a spread of 1.1%. Because the feasible scenarios are tightly clustered on cost, scenario selection should be guided by operational suitability, implementation risk and electrification objectives rather than marginal TCO differences alone.

Chart 5 - Annual TCO by year, by scenario

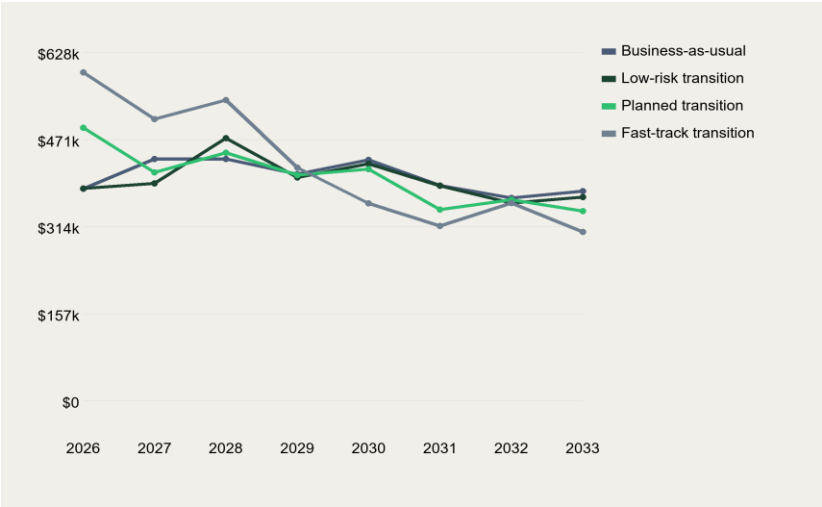


Chart 6 - 8-year cost composition by scenario

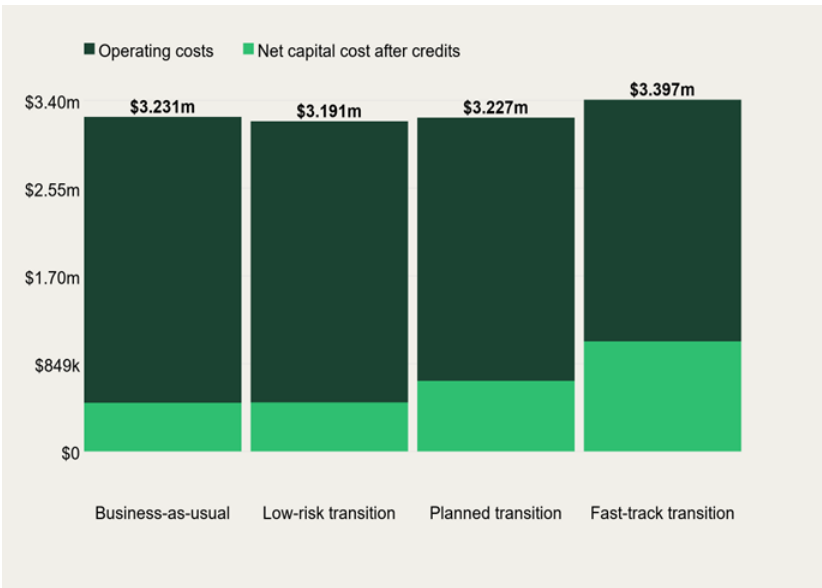


Table 6 - Cost profile scenario comparison

Scenario	NPV vs BAU	Lifetime TCO	Capex	Run-rate annual opex saving	Tailpipe emissions reduction (tCO ₂)	Recommendation status
Business as usual	\$0	\$0	\$0	\$0	0	Baseline
Low-risk transition	\$48k higher	\$40k savings	\$7k savings	\$11k	60	Alternative
Planned transition	\$8k lower	\$4k savings	\$58k additional	\$36k	403	Recommended
Fast-track transition	\$220k lower	\$166k additional	\$456k additional	\$74k	783	Alternative

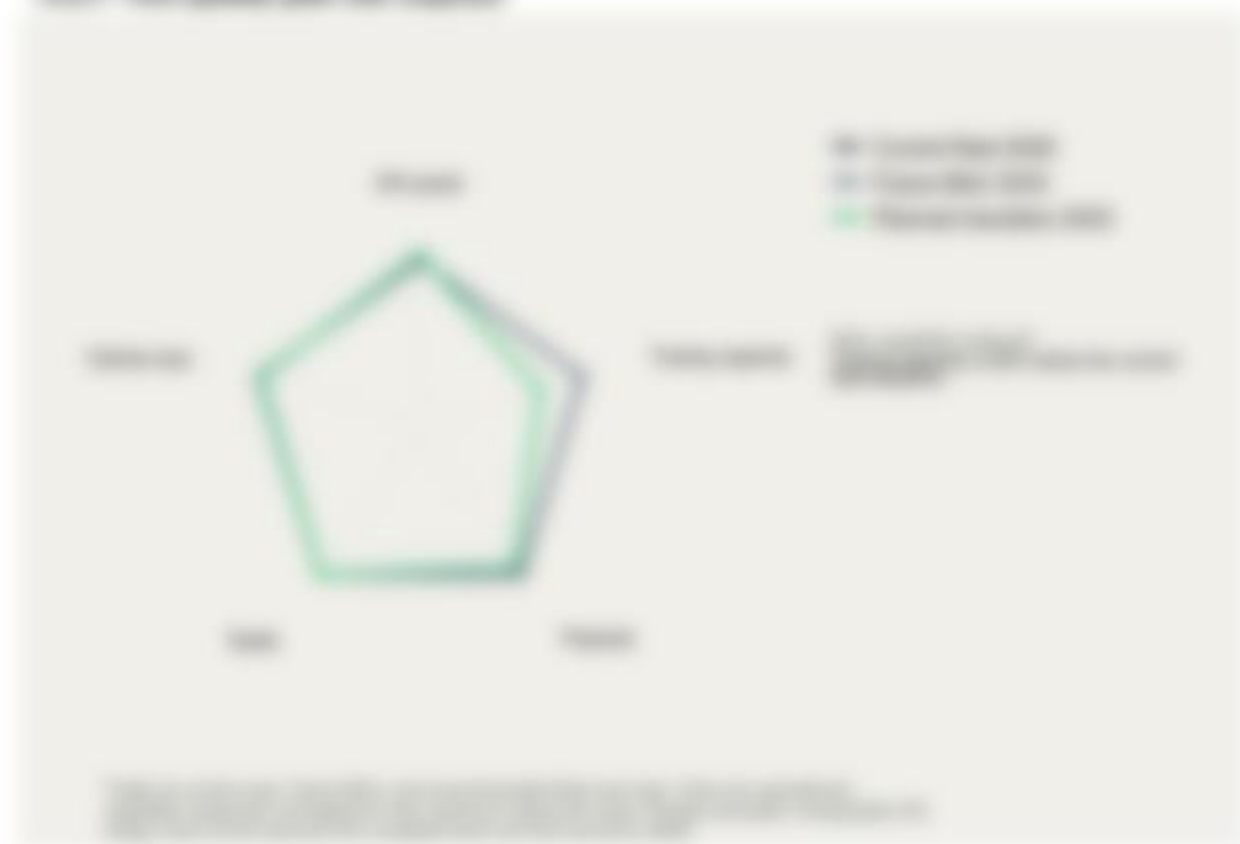
Table 7 - Annual cost profile scenario comparison detail

Scenario	EV replacements	High risk vehicles	Risk rating
Business as usual	0 (0.0%)	0	Baseline
Low-risk transition	3 (7.3%)	0	Low
Planned transition	16 (39.0%)	0	Moderate
Fast-track transition	36 (87.8%)	9	High

Capability

How capability scores relate to the performance gap compared to the best practice, setting scores, and the gap between the current and the target scores. The gap between the current and the target scores is the performance gap. The gap between the current and the target scores is the performance gap. The gap between the current and the target scores is the performance gap.

How capability scores relate to the performance gap



How capability scores relate to the performance gap

Dimension	Current score	Target score	Best Practice score
Knowledge	60	80	90
Skills	70	85	95
Attitudes	75	90	100
Motivation	80	95	100
Resources	85	100	100

Сарех

Сарех — это один из самых популярных и эффективных методов лечения заболеваний суставов. Он основан на использовании специальных препаратов, которые действуют непосредственно на пораженные ткани, способствуя их восстановлению и уменьшая воспаление.

Сарех применяется в виде инъекций, которые вводятся непосредственно в сустав. Это позволяет достичь быстрого эффекта и избежать побочных действий, характерных для пероральных препаратов. Курс лечения обычно составляет 5-10 инъекций,间隔 1-2 недели.

Сарех имеет несколько преимуществ. Во-первых, он действует непосредственно на очаг воспаления, что обеспечивает быстрый эффект. Во-вторых, он не оказывает системного действия, поэтому не вызывает побочных эффектов, связанных с приемом лекарств. В-третьих, Сарех безопасен и не имеет противопоказаний, кроме аллергии на компоненты препарата.

Эффект Сареха при лечении артрита



Эффект Сареха при лечении артрита



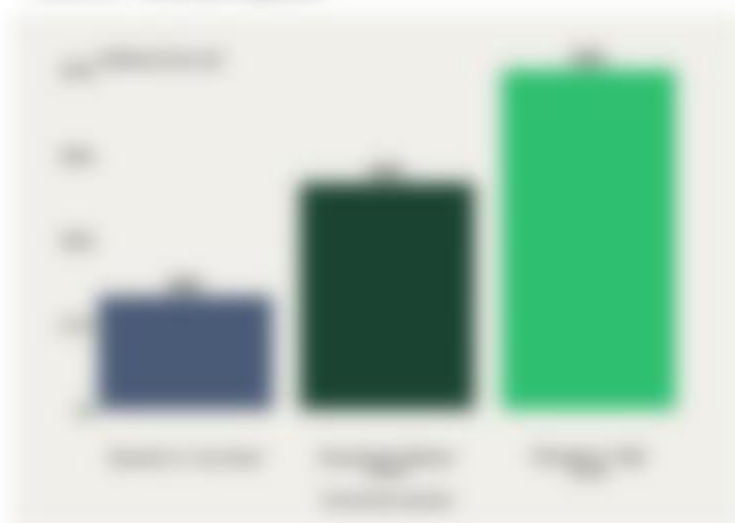
Fuel shock exposure

The availability of fuel is a critical factor in the operation of a power plant. Fuel is used to generate electricity, and any disruption in the supply can lead to significant economic losses. Fuel shock exposure is a measure of the risk of fuel supply disruption.

There are several factors that can lead to fuel shock exposure. These include changes in fuel prices, changes in fuel supply, and changes in fuel demand. Fuel prices can fluctuate significantly due to market conditions, and changes in fuel supply can occur due to natural disasters or political events. Changes in fuel demand can also lead to fuel shock exposure, particularly in the case of a sudden increase in demand.

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Figure 1: Fuel shock exposure



Operational risk

The financial position of the company is significantly less secure, conditions depend on management through procedures, changing conditions, and other risk conditions.

The risk factor should be treated as representative unless other data appear to change the picture.

Table 1: Operational risk

Category	Score	Weight	Impact
Operational risk	100	100%	Operational risk is a significant risk factor for the company.
Operational risk	100%	100%	Operational risk is a significant risk factor for the company.
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Operational risk	100%	100%	Operational risk is a significant risk factor for the company.

Charging strategy

Infrastructure

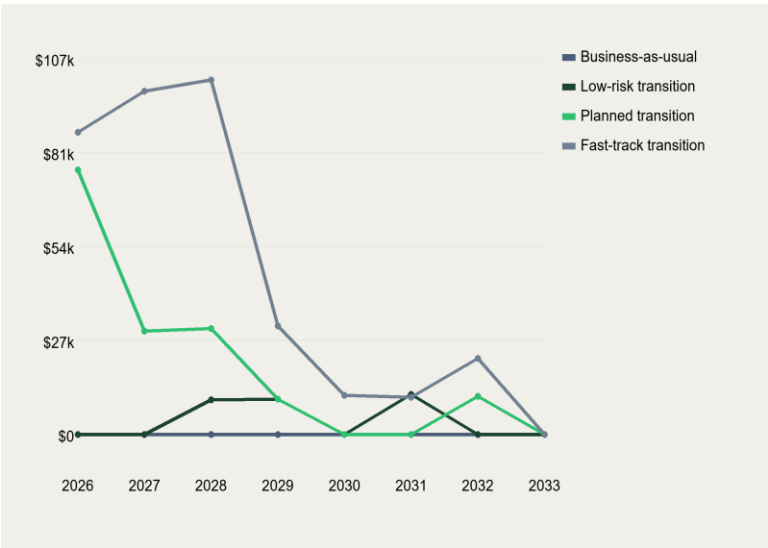
Charging infrastructure is a moderate cost item in the recommended rollout. The allowance is \$156k, or about \$10k per incremental EV across 16 vehicles and 3 touched sites. The practical effect is that infrastructure is not the main cost barrier here, although site delivery still needs active management.

Infrastructure scope is concentrated in standard depot charging rather than an extensive fast-charging build. The plan provides 16 AC charging positions and 0 incremental fast chargers. This keeps infrastructure complexity manageable unless operating patterns force more rapid-turnaround charging than the analysis currently assumes.

Charging spend is front-loaded into a specific delivery window rather than spread evenly. Within the recommended pathway, charging capital peaks in 2026 at \$76k.

In practical terms, that is the year when procurement, site works and project management pressure will be highest.

Chart 13 - Charging infrastructure costs



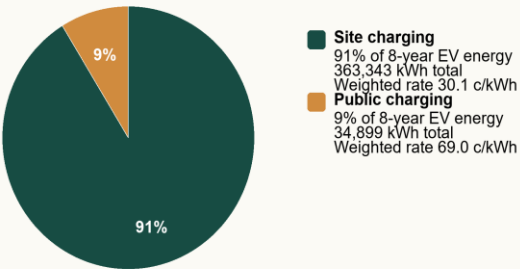
Charging mix

The charging plan is weighted toward lower-cost private energy. For Planned transition, the projected mix is 91% site, 9% public and 0% home charging, which points toward depot charging where vehicles are projected to return and dwell long enough to recharge. This means charging behaviour will materially influence operating cost resilience.

Charging-cost sensitivity is concentrated in tariff mix. The weighted public energy rate is about 69.0 c/kWh versus 30.1 c/kWh at site.

For decision-making, public-charging reliance is the fastest way for economics to deteriorate if operating assumptions prove too optimistic.

Chart 14 - Charging mix by source of energy



CO₂ tailpipe emissions reduction

Emissions reduction is significant. Over the horizon, tailpipe CO₂ falls by 403 tCO₂, or 33.8% versus business as usual. The implication is that the pathway can materially support ESG reporting and compliance discussions, provided execution stays on plan.

The pathway offers a cost saving of around \$11 per tonne of tailpipe CO₂ avoided.



Chart 15 - Total CO₂ emissions avoided by scenario

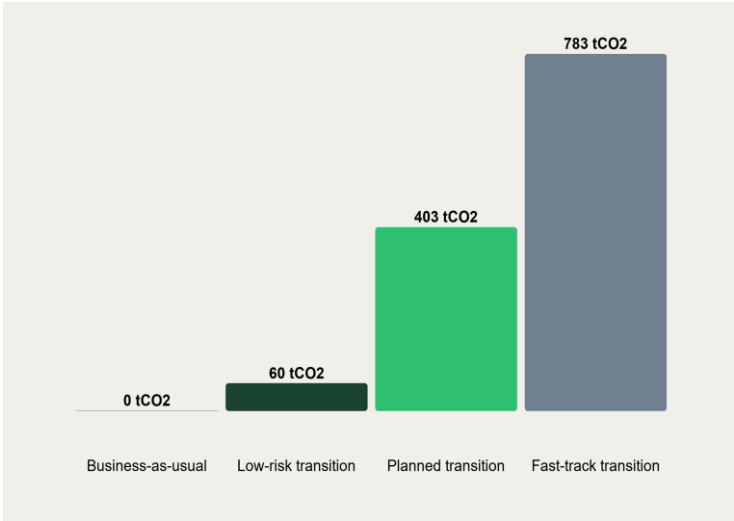
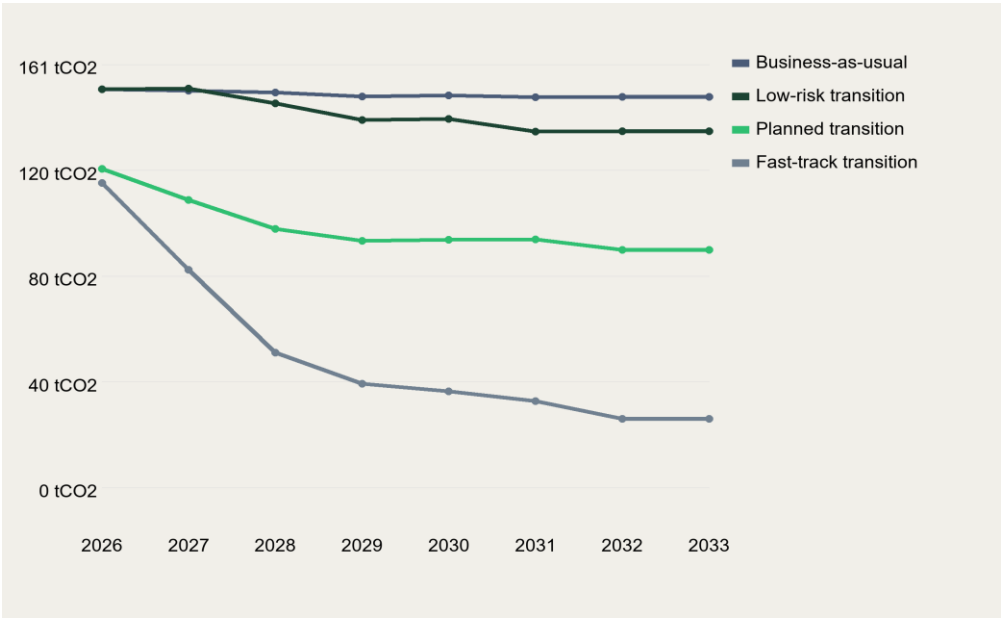


Chart 16 - Annual CO₂ emissions by scenario



Conclusion

Based on the evidence presented, the Commission concludes that the respondent's actions in the past, the respondent's current conduct, and the respondent's character and reputation are such that the respondent is not a suitable person to hold the position of [redacted] in the [redacted] organization. The Commission therefore recommends that the respondent be removed from the position.

The Commission also recommends that the respondent be required to undergo counseling, training, and other appropriate measures to address the issues identified in the report. The Commission further recommends that the respondent be monitored for a period of [redacted] months to ensure compliance with the Commission's recommendations.

The Commission's recommendations are based on the evidence presented in the report and the Commission's findings. The Commission acknowledges that the respondent has the right to be heard and to present evidence in his or her defense. However, the Commission has concluded that the respondent's actions are such that the respondent is not a suitable person to hold the position of [redacted] in the [redacted] organization.

Disclaimer

The report and the Commission's recommendations are based on the information provided by the respondent and the Commission's findings. The Commission does not warrant the accuracy or completeness of the information provided, nor does it warrant the Commission's findings or recommendations. The Commission's findings and recommendations are based on the information provided and the Commission's findings. The Commission's findings and recommendations are not intended to be used as a basis for legal action.

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