

Commercial and financial considerations of transitioning to a Zero Emission Fleet

21 September 2021







Why I think that this is so important



Highlight some key uncertainties that need to be resolved



Put my thoughts forward for a plan on a page

Consider some drivers for commercial and financial impacts

Consider some of the financial implications for your business

My top reasons why this is so important for operators





Government are unsure of how they will approach the transition to ZEBs



Outside of a system implementation, this is a significant transformational project for your business



With all new emerging technologies, the operational and financial implications, including key risks are not fully understood

My top reasons why this is so important for operators



The suppler eco-system is emerging but not yet mature



Current contractual models may expose the operator to financial risks during ZEB transition and ongoing provision of services



Knowledge of transition and operation of a ZEB fleet will be a competitive advantage over the short to medium term

Some key uncertainties and decisions





Planning for the transition to ZEB Fleet

	1. Research 2. Pla	annin	g 3. Proof of Concept		4. Transition 5. ZEB Business as Usual
1.	Research ZEBs technology	1.	Government backed / self-funded	1.	Contractual adjustments: operational /
2.	Early engagement with key suppliers	2.	Further validate/understand key	2	financial Transition project focused on activities such as:
5.	standards		assist in future direction/decisions	2.	 Changes to Depot infrastructure and fleet
4.	Analyse how your operations will change with the introduction of ZEBs	3.	Enable a deeper understanding of the approach to transitioning to a		 Operational changes, scheduling and maintenance
5.	Understanding key operational and financial risks	4.	ZEB Fleet Validation of key financial data,		People, process and system changes
6.	Analyse the financial implications, including key fixed and variable		further understanding of key sensitivities and risks	3.	 Procurement and supply chain Manage the financial implications of transition
	elements; sensitivities and risk; initial modelling.	5.	Consideration of how to manage operational and financial risks	4.	Manage and mitigating risks during transition
7.	Develop an initial business/operational plan with a view	6.	Develop a transition plan, including an operational model and financial model to support the move to BAU Review contractual implications	5.	financial plans
	to implementation and business as usual			6. 7.	Transition to BAU including approach to business sustainability and continuity
8.	Identify key decisions to be made	7.			Managing lifecycle investment, including asset management, refresh and residual values







	Diesel	> ZEB		
Impact on Driver wages	 How will scheduling and rostering of staff change as a result of ZEBs? Choice technology, battery/fuel cell, type of vehicle, vehicle distance, charging approach Impact resulting form Number of Vehicles to operate network (incl. PVR) 			
Distance Variable: Fuel / Energy	 Consumption rates (known) Fuel price, AdBlue Fuel Rebates 	 Battery efficiency / Fuel cell Price of electricity / hydrogen, EV taxes Approach to charging 		
Distance Variable: Maintenance / Repairs / Refurbs.	The cost is reasonably well known Funding - <u>Average Cpk</u> rate over the contract	The cost NOT well known; Funding approach not yet known. Not enough history to inform Avg. Cpk rate!		
Distance Variable: Labour / Outsourced Maint.	The cost is reasonably well known with significant history Funding - Average Cpk rate over the contract	Reliant on trials and supplier information. Funding approach not yet known Staff training / upskilling or outsourcing		



	Diesel	ZEB
Direct Fixed Costs Registration / Insurance	Known fixed cost to support diesel fleet Mature insurance market	Emerging fixed costs to support ZEBs Emerging insurance market
Capex. Cost and Depreciation of Infrastructure	Existing fuel tanks and depot infrastructure to support	Multiple solutions for ZEBS, i.e. fast charge/slow charge; hydrogen fuel tanks
Capex. Cost and Depreciation of Fleet	Current finance arrangements, and depreciation (potential issue of impairment); currently lower cost	Emerging finance solutions, different depreciation life, currently higher costs, including batteries
IT system changes: Fleet management, Energy management etc.	Current IT systems support diesel fleet management, refuelling, repairs and maintenance and inventory	Emerging requirements to adapt IT systems to support ZEB fleet / new IT solutions



Trial / Proof of Concept	Key decision to be made around the right technology to suit the nature of your services and the long term sustainability and efficiency of operations. Scope and price the transition project; understand ongoing opex. and capex. requirements.								
Transition (Excl. Capex)	 Changes to depot New IT Systems Retraining staff Project management Regulatory compliance 								
End of life costs Diesel fleet	 Residual Value of Diesel Fleet, residual Government funding Retirement cost of Diesel infrastructure Depot infrastructure and remediation costs 								
Important to know	 The Net Financial Impact on your business of the transition to ZEB fleet Understand the investment required, including transition cost Consider financial risks and allow for contingency in estimates Model the profit/loss, balance sheet and cash flow impacts 								







Contact us

Matthew Wilson

Executive Director

+61 3 8610 5245 +61 413 621 234 matthew.wilson@pitcher.com.au

Over 20 years experience in financial consulting, including supporting the bus industry around Australia engage with Government through tenders and negotiated contracts.



Making business *personal*

