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THE VOICE THE STANDARD THE RESOURCE

Transitional Period - Additional Weights Needed on Zero Emission Vehicles DATE

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ZEV Weights & Real World Study



Average Weights of ZEV Vehicles

Manufacturer	Model	Tare	Freightliner	Additional
			Daycab	Weight
Battery Electric				
Lion	Straight Truck	9,997	8,675	1,322
Lion	EV 5 Battery	10,727	8,700	2,027
Lion	EV 6 Battery	11,339	8,700	2,639
Lion	EV 7 Battery	11,952	8,700	3,252
Lion	EV 8 Battery	12,564	8,700	3,864
Lion	EV 9 Battery	13,179	8,700	4,479
Volvo	EV VNR	11,113	8,700	2,413
Peterbilt	579 BEV Day Cab	11,375	8,700	2,675
Navistar	BEV (eMV607)	14,682	8,700	5,982
Nikola	EV	13,800	8,700	5,100
		Average		3,375
Hydrogen Fuel Cell				
Hyzon	Fcell	9,933	8,700	1,233
Nikola	Fcell	12,200	8,700	3,500
Future Fcell development Esimate				3,000
		Average		3,500
Hydrogen Fuel Injection		We	Weight of system only	
Hydra	H2/Hydrogen		8,700	680
DTI	Hydrogen Fuel Injection		8,700	680
		Average		680







Average Axle Weights Study





The adoption of ZEVs, supported by a modest GVW . increase, is crucial for achieving emission reduction targets and supporting a sustainable transportation sector in Alberta and Canada. While the impact on infrastructure must not be overlooked, careful analysis suggests the proposed weight allowance is manageable and less impactful than deploying additional vehicles to compensate for current payload limitations.

Further research and collaboration with industry stakeholders will ensure a balanced approach that protects infrastructure while fostering environmental and economic progress.



Conclusion | ZEVs

Recommendations



Recommendation for a Transitional Weight Allowance (Proposed as "Exemption Period")

Transitional Weight Allowance -This allowance would permit an increase of up to 3,500 kilograms above the standard diesel TARE weight. The additional weight allowance, capped at 3,500 kilograms through 2040, would help ZEVs achieve payload capacities comparable to diesel trucks.





Thank you

