

PROPOSED MANDATORY BATTERY TRANSPARENCY LABEL

Every stationary battery system sold, supplied, or installed within the Commonwealth of Australia must physically bear the following high-contrast, permanent, weather-resistant label on its primary external structural enclosure. It must also be reproduced digitally at the point of sale, on all commercial invoices, within technical documentation, and on state/federal incentive databases.

+-----+			
	AUSTRALIAN BATTERY TRANSPARENCY LABEL		
	Certified compliant with AS/NZS ABTS:2026 ID: AU-987452		
+-----+			
	MANUFACTURER: [Insert Name]	CELL CHEMISTRY: [LFP / LTO / NMC]	
	MODEL NO: [Insert Model]	MADE IN: [Country of build]	
+-----+			
	OPERATIONAL METRICS		
	* Usable Energy Capacity (Beginning of Life):	[XX.X] kWh	
	* Round-Trip Efficiency (AC-to-AC or DC-DC):	[XX.X]%	
	* Certified Operating Temperature Envelope:	[XX]°C to [XX]°C	
+-----+			
	LIFETIME & DEGRADATION FORECAST		
	* Warranted Service Life Period:	[XX] Years	
	* Maximum Warranted Cycle Lifetime:	[XXXXX] Cycles	
	* Expected State of Health (SOH) at Year 10:	[XX]%	
	* Projected Complete System Replacements		
	Over a Standard 40-Year Horizon:	[0 / 1 / 2 / 3]	
+-----+			
	FINANCIAL & METRIC VALUE		
	* Estimated Levelised Cost of Storage (LCOS):	\$[X.XX] per kWh	
	(Calculated: Total Capital Cost / Lifetime Delivered Wh)		
+-----+			
	SAFETY & HAZARD RATING		
	* Thermal Runaway Propensity Classification:	[Class 1 / 2 / 3]	
	* Primary Off-Gas Toxic Hazard Profiling:	[HF / CO / None]	
	* Mandated Minimum Fire Suppression Medium:	[Water / Aerosol]	
+-----+			
	CIRCULAR ECONOMY & RECYCLING		
	* End-of-Life Stewardship Program Code:	[ABRI-XXXXX]	
	* Explicit Consumer Disposal Cost Obligation:	[\$0.00 / \$XXX.XX]	
+-----+			
	[QR CODE] Scan to access NATA Accredited Test Reports, Full		
	Degradation Curves, and Material Safety Data Sheets.		
+-----+			

Explanatory Comparative Benchmarks for the Label

To demonstrate how this standardized matrix exposes real-world value differences, the following table details the contrasting profiles of three common market entries under ABTS metrics:

Metric Field on Label	Conventional Lithium NMC Entry	Standard Lithium Iron Phosphate (LFP) Entry	Advanced Lithium Titanate (LTO) Entry
Cell Chemistry	Lithium Nickel Manganese Cobalt (NMC)	Lithium Iron Phosphate (LFP)	Lithium Titanate (LTO)
Warranted Cycle Lifetime	2,500 Cycles (100% DoD)	6,000 Cycles (80% DoD)	22,000–60,000 Cycles (100% DoD)
Expected SOH at Year 10	< 50%(Asset Defunct)	60% – 70%	> 90%
Projected 40-Year Replacements	3 Complete Replacements	1 to 2 Complete Replacements	0 Replacements
Estimated LCOS (/kWh)	\$0.38 – \$0.45	\$0.22 – \$0.28	\$0.06 – \$0.12
Thermal Runaway Propensity	Class 3 (High Propagating Risk)	Class 2 (Thermally Contained)	Class 1 (Intrinsically Stable)
Primary Off-Gas Hazard	Extreme HF (> 150 PPM) & H_2	High CO & H_2	None / Trace Volatiles