

Battery Energy Storage System (BESS) Visual Inspection Check Sheet

Category	Inspection Item	Pass / Fail / NA	Observation Comments
Enclosure & Site	Casing Integrity: Check for dents, cracks, or breaches in the container/cabinet.		
	Seals & Doors: Verify door seals are intact and latches function correctly.		
	Housekeeping: Area is free of combustible materials, clutter, and vegetation.		
	Clearance Zone: Minimum 6-metre (20ft) radius is clear of combustible materials, other cargo, or vehicles.		
	Ventilation: External vents are unobstructed by debris or plastic wrapping.		
	Drainage: Area around the unit is free of standing water or blocked storm drains.		
	Fire Suppression Access: Dedicated hydrant or water supply is accessible and unblocked.		

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Signage	Hazard: Class 9 placards are clearly visible and legible.		
Thermal & Chemical Indicators	Odour Check: No "sweet" or pungent chemical smells (possible electrolyte leakage or venting).		
	Acoustic Check: No unusual hissing, popping, or whistling sounds from inside the unit.		
	Visual Leaks: No liquid pooling or powdery residue (corrosion) on or under the unit.		
Safety & Monitoring	HMI / Alarm Panel: Verify no active fault lights or critical alarms are displayed.		
	Fire Suppression: Check suppression cylinder pressure gauges and status lights.		
	Gas Detection: Inspect sensors for physical damage or obstruction.		
Critical Safety Warning	If you observe swelling, smoke, off gassing or unusual heat, immediately evacuate the area and raise the alarm. Lithium-ion battery fires can be extremely volatile and may require specialised first-responder protocols.		

Further Comments			
Date			