**Product / Service:** Batteries & Electrical Components (including Test Equipment Purchase / Hire / Maintenance)

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|  | **Negative Impacts / Risks** |  | **Positive Opportunities** |
| **Environmental** | * Production of batteries - uses chemicals and non-renewable metals (impact of biodiversity / mining impacts) * Production of components and test equipment - high carbon production process, including non-recyclable & non-renewable materials and water (impact of biodiversity / mining impacts) * Vehicle fuel & emissions (carbon impact) – high order frequency * Products may be delivered in excessive packaging * Energy use of test equipment (carbon impact) * Disposal of batteries (short-life span) – include hazardous waste | * Rechargeable batteries * Life span of large batteries can be extended through good maintenance practices * Energy efficiency of batteries in operational use (efficiency varies with make / model) * Energy efficient test equipment (e.g. EnergyStar) * Consolidated orders & reduced delivery frequency (carbon impact) * Low CO2 vehicles for delivery * Reduce levels of packaging / use recycled packaging |
| **Social** | * International manufacturing supply chains (potential for issues such as child labour / poor pay & working conditions / health and safety breaches) * Frequency & timing of deliveries – congestion & noise impacting residents | * Consolidated orders & deliveries (including shared contracts) – reduce congestion & noise |
| **Economic** | * Potential duplication of purchases across multiple sites - disconnected orders / multiple delivery charges * Poor inventory management may result in over-ordering / leftover stock / high storage costs * Cost of energy used by test equipment * Waste disposal costs | * Rationalise suppliers & deliveries * Potential to share equipment (overall cost reduction) * Reduce waste through effective inventory management / redistribute over-orders of consumables internally * Energy efficient test equipment (e.g. EnergyStar) – reduce energy bills * Rechargeable batteries (cheaper on a whole life cost basis) |

**RELATED PROC HE:** MA / MB / MN