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