Resource efficiency

Basic Measures for Energy Efficiency:

In an endeavour to improve energy efficiency City Batteries has reviewed a number of its policies and working practices.

- All internal Lighting including the warehouses and offices has been changed to LED lights to reduce electricity.
- Lighting turned off when not in use.
- Tracking is fitted to all vehicles to improve route planning and maximise collection efficiency.
- Older vehicles are being updated to new and move to more fuel-efficient vehicles.

Breakdown of changes to the energy our activities use up and create.

City Batteries is constantly looking for ways to improve its energy efficiency and reduce the impact of its business in its endeavour to improve energy efficiencies and reduce costs we have made improvements such as listed in question 6a and will monitor usage using mass balance equations such as:

• Using units of electricity used divided by tonnage throughput for the same period.

<u>Unit of electricity (E)</u>	= average unit per tonne
Throughput Tonnage (T)	

• We are measuring diesel used to collect the batteries divided by tonnes of batteries collected this again will be compared with previous years.

<u>Diesel Used (D)</u> Throughput Tonnage T

= average Liters used per tonne

These calculations can be used on a monthly, quarterly, and annual basis to monitor energy efficiency.

Raw Materials Used Are:

- Diesel is used in the fork trucks that load and unload the trucks and move the batteries around the site. Due to the weight of the pallets fork trucks need to be used. Diesel is also used in the collection delivery vehicles there is no alternative t this time however we are constantly reviewing this and looking for more efficient ways to collect the batteries.
- Adblue, this is a fuel additive designed to improve the quality of the emissions from our vehicles especially when collecting from towns and cities.
- Water Apart from the obvious uses of water e.g. drinking water is used to protect staff through good personal hygiene, stopping cross-contamination from the lead acid batteries is especially important. Keeping working areas and machinery clean reduces high-cost maintenance caused by corrosion.
- Cleaning products such as handwash are in constant use to prevent contamination from the waste batteries.