

## Attachment G.1. Raw Materials, Substances, Preparations and Energy

KWD expects to use the following raw materials, substances and energy at the Forge Hill Site on an annual basis:

- *Fuel* – 70,000 litres of diesel. This will not be stored on site but will be delivered directly to site plant by road tankers.
- *Electricity* – 1.2 million daytime units, 350,000 night-time units.
- *Maintenance Oils (hydraulic, engine, etc.)* – small volumes for maintaining plant and machinery. Drums will be stored inside the main building where there is full containment including bunding.
- *Paint and thinners* – small volumes for maintenance purposes. Stored inside building in contained area.
- *Vermin control bait* – small volumes as the site will only accept dry recyclables and these materials do not provide a food source for rats, flies or other vermin.

As these materials will only be stored in very small quantities on site and are ancillary to the site activities, rather than being '*process-related*', we have not completed Table G.1 and have not provided safety data sheets in this waste licence application.

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## Attachment G.2. Energy Efficiency

KWD expects to use 70,000 litres of diesel and 1.55 million units of electricity each year at the Forge Hill facility. The company is seeking a 24/7 licence and if this is granted, the use of night-time electricity units will increase with a corresponding reduction in daytime units.

The Environmental Management System for the facility includes objectives and targets for reduction of power consumption per unit of waste processed. Energy usage will be tracked monthly and energy efficiency audits will be used to encourage improved performance in that regard.

The preparation of waste for recycling at the facility will result in significant energy gains external to site operations. Recycling aluminium cans, steel cans, plastics, paper and cardboard saves energy compared to producing these materials from metal ores, crude oil, forests, etc.

Another external energy saving will come from the location of this facility in Cork. Currently, most of the household dry recyclables collected in Cork are bulked and transported to Killarney for processing after which many of the segregated materials are returned to Cork for export. Delivering Cork's dry recyclables directly to the Forge Hill site will save on transport and will therefore offer a more energy efficient option for handling these materials.

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