



ELL/020

Ellgia Scunthorpe Permit Variation Resource efficiency and Climate Change

1 Energy Efficiency

Several basic energy efficiency measures will be implemented such as as:

- Adoption of energy efficient technology when replacing any exiting systems or installing new equipment including high Efficiency LED lighting, inverter drives / soft start for motors and high efficiency gearboxes
- Regularly inspection and maintenance of equipment to achieve optimum efficiency. For example, frequent lubrication to avoid high friction losses. This will be contained within the PPMR as part of the EMS.
- Optimising start up time, power down time and equipment sequencing;
- Optimising operational planning to streamline equipment use;
- Ensuring the shredder feed remains stable;
- All lights will be turned off when not in use or when natural daylight is sufficient;
- Employees will be trained in the importance of energy management and basic energy saving practices.

Smart metering will be installed where available and energy use will be monitored monthly to produce an energy balance record and any opportunities for energy efficiency improvement will be addressed as part of the EMS.

1.1 Changes to the energy consumption

There will be no change to energy consumption directly related to the permit variation.

Energy consumption will vary in relation to throughput and waste composition.

Specific energy consumption (kWh/te) will be monitored as part of onsite monitoring and targeting activities to reduce overall energy consumption.

1.2 Future Development

Ellgia is currently investigating options for on-site solar power generation as part of its future energy strategy.

2 Raw and other materials and water

The site has minimal water consumption, there are no process demands and consumption is primarily for welfare and office facilities. Rainwater is collected for dust suppression and dousing.

Raw materials are limited to fuel, consumables and spare parts for running plant and equipment.

3 Waste Produced

No new waste streams will be created because of this variation. The site continues to be developed with the aim of maximizing extraction of recyclable material and minimizing waste sent to landfill.

Ellgia treats and recycles any waste arising from its activities on site in the same as waste received from customers. Staff are trained to minimise the use of raw materials and all offices and work areas are equipped with appropriately marked waste receptacles.