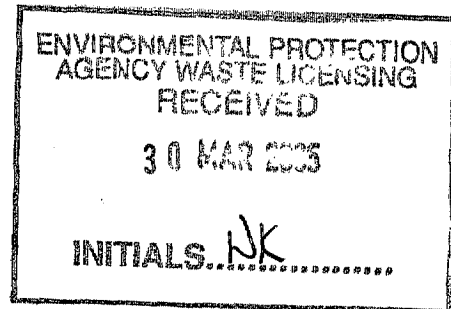


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**Waste Licensing**  
**Waste Recovery/Disposal Activities**  
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**Section G**

***Resources Use & Energy Efficiency***

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**Section G1**

***Raw Materials, Substances,  
Preparations and Energy***

## G.1 RAW MATERIALS AND PRODUCT

Diesel for the on-site plant equipment is stored in a 6,000 gallon, bunded tank on-site (3,000 gallon green diesel and 3,000 white diesel). Hydraulic oil and engine oil is also stored in tanks on-site (4 x 300 gallon tanks). Lubricating greases, gear oils, and steering oils are also used on-site.

<b>Fuel Type</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>White Diesel (litres)</b>	210,864	268,216	262,395	274,961
<b>Green Diesel (litres)</b>	19,679	39,614	60,374	94,924
<b>Kerosene (litres)</b>	1,036	2,323	1,500	2,174
<b>Electricity (kWh)</b>	70,380	108,330	138,640	116,660

Water used at the facility is sourced from Kilsaran Well and rainwater run-off from roofed areas. There are no meters on either of these supplies therefore calculation of water usage is not possible. Water usage is restricted to the canteen/sanitary requirements.

Minor quantities of cleaning agents, and paints are maintained on-site. Waste oil generated from plant is removed by an authorised contractor (Allied Waste Oil) on an annual basis.

MSDS sheet of all materials used on site were submitted as part of the original Waste Licence application.

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**Section G2**

***Energy Efficiency***

## G.2 ENERGY EFFICIENCY

Energy usage on site comprises of electricity, and diesel for the on-site plant equipment. Details of the electricity usage and fuel usage at the facility from 2001 is given in tables G2.1 and G2.2 below.

Month	2001		2002		2003	
	Units (KWh)	Wattless	Units (KWh)	Wattless	Units (KWh)	Wattless
January – February	-	-	13380	11540	26420	15240
March-April	20300	20720	16500	24000	22500	18480
May-June	11780	15840	12160	16820	19420	18720
July-August	8100	9840	10860	12960	16500	16800
September-October	15680	15980	45740	14140	32820	14980
November-December	14520	12560	24540	15620	20980	15440

Fuel Type	litres		
	2001	2002	2003
White Diesel	210,864	268,216	262,395.23
Green Diesel	19,679	39,614	60,374.79
Kerosene	1,036	2,323	1,500
<b>Total Usage</b>	<b>231,579</b>	<b>328,153</b>	<b>324,270.02</b>

White diesel usage remains similar to that of 2002, while green diesel consumption has decreased slightly from period of 2002 to 2003, while and increase was seen in the previous period as a result of increased waste handling at the facility.

Energy efficiency at the facility is managed in the objective and targets within the Environmental Management Programme (EMP) as part of the overall Environmental Management System in place at the facility (see Attachment C2: EMS).

Targets were established to minimise any energy wastage at the facility. This was implemented in a five year programme (2002-2007) through the following actions:

- Assessing potential improvements at the facility utilising the “Industrial Energy Good Practice Guides” from the Irish Energy Centre.
- Quantifying electricity usage at the facility
- Researching energy saving methods at the facility
- Implementing energy conservation programme to minimise power consumption
- Monitoring energy conservation programme through environmental procedure EP9.0 “Energy and Natural Resource Consumption Analysis” (see attachment C2:EMS)
- Carry out routine energy saving training at the facility.

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