

AW1754



# Environmental Report

## Preston College

All



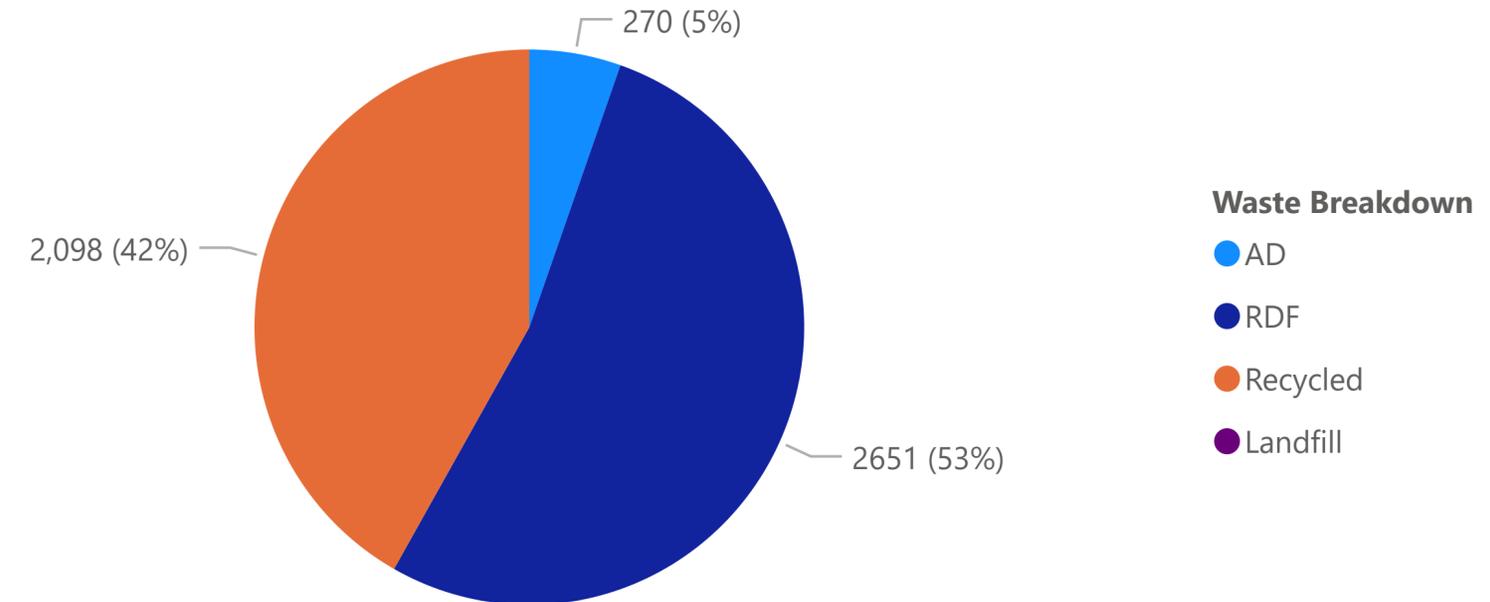
December 2023



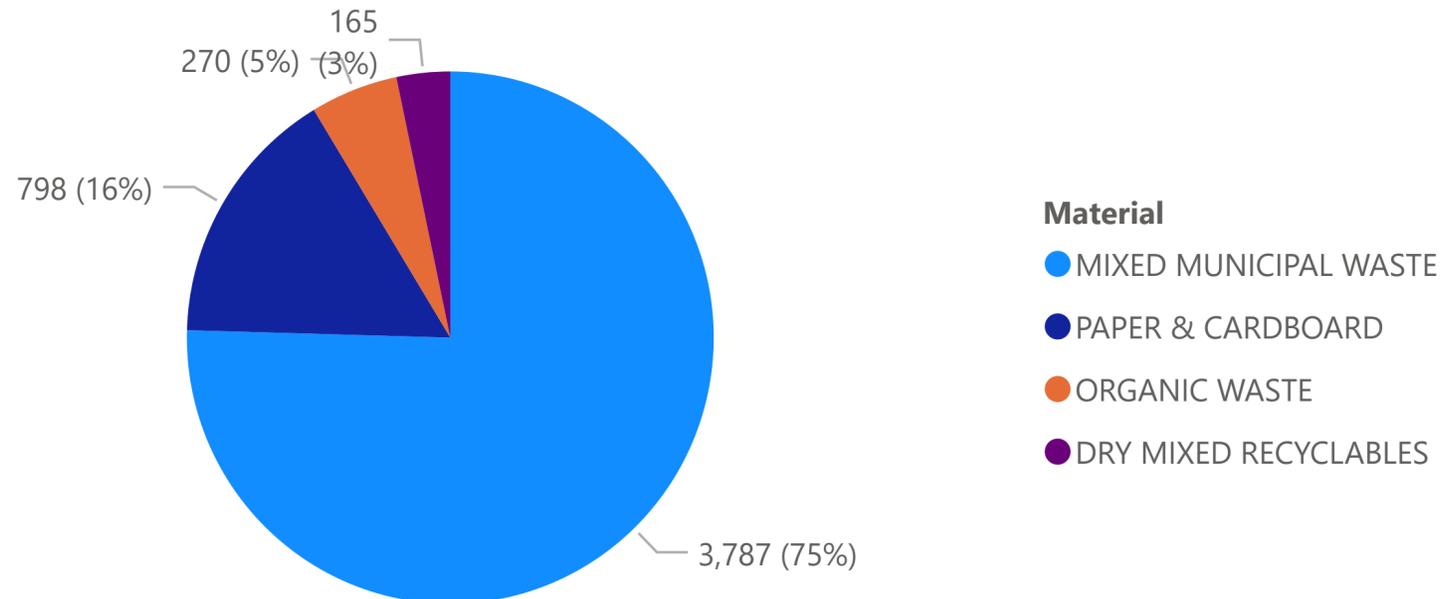
## Preston College

Welcome to your environmental report which shows you the breakdown of your waste by type, and what has happened to it once it has been collected. You'll notice the amount of waste which has been diverted from landfill. You'll see the proportion of waste which has been recycled, as well as waste sent for energy recovery at either an Anaerobic Digestion facility (AD, for food waste) or a waste-to-energy facility (Refuse Derived Fuel or RDF from non-recyclable general waste). We'll also show you the breakdown of recycled materials by the type of material. And you'll see how the equivalent energy generated through AD and RDF could be used. You'll see your data across the last 12 months and following this, a breakdown of your waste by each individual site.

Weight (kg) by Destination



Weight (kg) by Material



Breakdown (Kg)

MaterialClassGroup	Weight	Recycled	RDF	AD	Landfill
DRY MIXED RECYCLABLES	165.00	165.00	0.00	0.00	0.00
MIXED MUNICIPAL WASTE	3,786.75	1,135.98	2,650.68	0.00	0.00
ORGANIC WASTE	270.00	0.00	0.00	270.00	0.00
PAPER & CARDBOARD	797.50	797.50	0.00	0.00	0.00
<b>Total</b>	<b>5,019.25</b>	<b>2,098.48</b>	<b>2,650.68</b>	<b>270.00</b>	<b>0.00</b>



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# Material Breakdown by Site - Weight (kg)

## December 2023

All

Site	DRY MIXED RECYCLABLES	MIXED MUNICIPAL WASTE	ORGANIC WASTE	PAPER & CARDBOARD
Preston College	165.00	3,786.75	270.00	797.50
<b>Total</b>	<b>165.00</b>	<b>3,786.75</b>	<b>270.00</b>	<b>797.50</b>



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# Energy Equivalents

## December 2023

All

### 575

RDF kWh/Tonne - each tonne of RDF produces 575 kWh (1)

### 2,651

RDF Weight(KG)

### 300

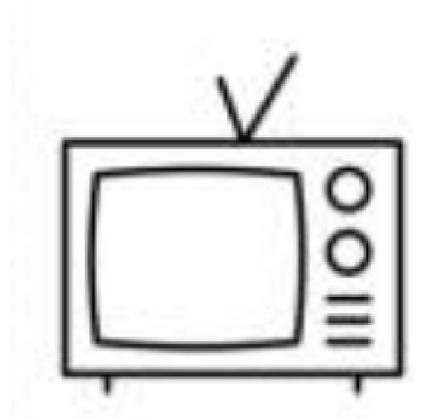
AD kWh/Tonne - each tonne of AD produces 300 kWh (2)

### 270.00

AD Weight(KG)

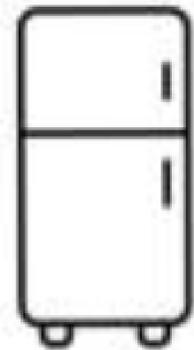
### 1,605

Total kWh Produced



### 25

No of TVs powered for a year (3)



### 9

No of Fridge Freezers powered for a year (5)



### 6,742

Miles driven in a family electric car (7)



### 1,459

Washing Machine Cycles Complete (4)



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# Waste Stream by Site - Weight (kg)

## December 2023

All

Site	Weight	Recycled	RDF	AD	Landfill
Preston College	5,019.25	2,098.48	2,650.68	270.00	0.00
<b>Total</b>	<b>5,019.25</b>	<b>2,098.48</b>	<b>2,650.68</b>	<b>270.00</b>	<b>0.00</b>



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# Hazardous Waste

(Blank)

All



Weight (kg) by Material

Material	Weight (kg)	Recycled (kg)	RDF (kg)	AD (kg)	Landfill (kg)
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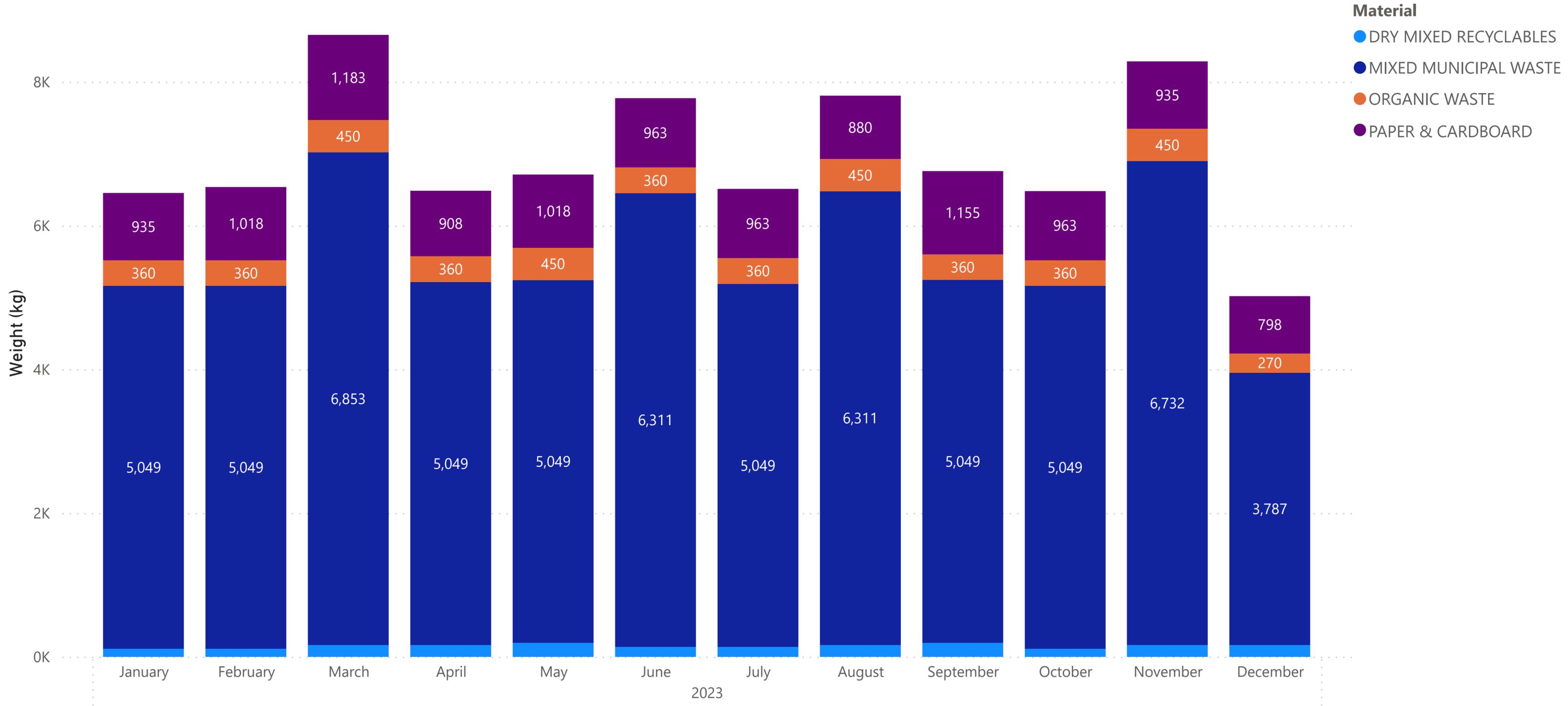


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# Monthly Breakdown

All

Weight (kg) by Year, Month and Material





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# Site Monthly Breakdown - Weight (kg)

All ▼

Site	Year Material Class	2023											
		January	February	March	April	May	June	July	August	September	October	November	December
Preston College	DRY MIXED RECYCLABLES	110.00	110.00	165.00	165.00	192.50	137.50	137.50	165.00	192.50	110.00	165.00	165.00
	MIXED MUNICIPAL WASTE	5,049.00	5,049.00	6,853.00	5,049.00	5,049.00	6,311.25	5,049.00	6,311.25	5,049.00	5,049.00	6,732.00	3,786.75
	ORGANIC WASTE	360.00	360.00	450.00	360.00	450.00	360.00	360.00	450.00	360.00	360.00	450.00	270.00
	PAPER & CARDBOARD	935.00	1,017.50	1,182.50	907.50	1,017.50	962.50	962.50	880.00	1,155.00	962.50	935.00	797.50
<b>Total</b>		<b>6,454.00</b>	<b>6,536.50</b>	<b>8,650.50</b>	<b>6,481.50</b>	<b>6,709.00</b>	<b>7,771.25</b>	<b>6,509.00</b>	<b>7,806.25</b>	<b>6,756.50</b>	<b>6,481.50</b>	<b>8,282.00</b>	<b>5,019.25</b>



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# Site Monthly Breakdown - Weight (kg)

All

MonthEnd

Multiple selections

Site	Year	Material Class	2022										
			January	February	March	April	May	June	July	August	September	October	November
Preston College		DRY MIXED RECYCLABLES	110.00	110.00	330.00	1,402.50	4,647.50	110.00	137.50	110.00	165.00	110.00	110.00
		MIXED MUNICIPAL WASTE	5,049.00	5,049.00	6,311.25	5,049.00	5,049.00	6,311.25	5,049.00	5,049.00	6,311.25	5,049.00	5,049.00
		ORGANIC WASTE	360.00	360.00	450.00	360.00	360.00	450.00	360.00	450.00	360.00	360.00	450.00
		PAPER & CARDBOARD	880.00	1,650.00	2,282.50	7,920.00	24,640.00	935.00	962.50	577.50	1,017.50	990.00	935.00
<b>Total</b>			<b>6,399.00</b>	<b>7,169.00</b>	<b>9,373.75</b>	<b>14,731.50</b>	<b>34,696.50</b>	<b>7,806.25</b>	<b>6,509.00</b>	<b>6,186.50</b>	<b>7,853.75</b>	<b>6,509.00</b>	<b>6,544.00</b>



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### References

(1) : Average Net kWh/tonne input for 2017 is 575 kWh/tonne, from Tolvik Consulting report of UK EfW Statistics 2017, Page 6, section 3, Figure 11.

URL : <http://www.tolvik.com/wp-content/uploads/Tolvik-UK-EfW-Statistics-2017.pdf>

(2) : 300 kWh per tonne of food waste generated by AD, as stated by the Official Information Portal on Anaerobic Digestion FAQs, Question 3 "How much energy can you get from waste?"

URL : <http://www.biogas-info.co.uk/about/faqs/>

(3) : Based on the stated Annual Energy consumption of a Panasonic 40" full HD Smart LED Television, model TX-40FS500B, of 64kWh/Year.

URL : <https://www.panasonic.com/uk/consumer/televisions/HDTV/tx-40fs500b.html>

(4) : Based on the stated energy consumption of 1.10 kWh of a 40C colour cycle of a Bosch Serie 8 washing machine, model no WAW325H0GB

URL : <https://www.bosch-home.co.uk/product-list/washers-dryers/washing-machines/front-load-washing-machines/WAW325H0GB?breadcrumb=frontloader#/Tabs=section-technicalspecs/Togglebox=-1051994369/Togglebox=285469437/Togglebox=1118313654/>

(5) : Based on the annual energy consumption of an LG Fridge Freezer Model No GBB60MCGFS of 178kWh, from the energy label.

URL : <https://www.lg.com/uk/fridge-freezers/lg-GBB60MCGFS#>

(6) : Based on the typical weekly consumption of a Canon imageRUNNER Advance office printer, model iR-ADV C7570i

URL : <https://canon.ssl.cdn.sdlmedia.com/55910.pdf>

(7) : Based on the WLTP combined cycle range of 168 miles of a 2018 Nissan Leaf with a 40kWh battery.

<https://www.nissan.co.uk/vehicles/new-vehicles/leaf/range-charging.html>

Carbon Footprint Limited have endorsed the service provided by B&M Waste and agents, which has reduced your indirect carbon emissions through landfill diversion. Please note that recycling rates may vary due to alternate tipping sites being utilised on occasion due to operational issues.

