



December 16th, 2022

Notice Of Meeting

You are invited to attend the Sustainability and Environment Committee Meeting to be held on **Tuesday, 20th December 2022 at 6:00 pm** in **Boardroom Monaghan Row Newry** and via **Microsoft Teams**.

Committee Membership 2022-2023:

- Councillor O Magennis (Chairperson)
- Councillor T Andrews (Deputy Chairperson)
- Councillor C Casey
- Councillor W Clarke
- Councillor D Curran
- Councillor A Finnegan
- Councillor G Malone
- Councillor K McKevitt
- Councillor A McMurray
- Councillor D Murphy
- Councillor K Owen
- Councillor G Stokes
- Councillor D Taylor
- Councillor M Ruane
- Councillor J Tinnelly

Agenda

- 1.0 Apologies and Chairperson's remarks.
- 2.0 Declarations of "Conflict of Interest".
- 3.0 Action Sheet of the Neighbourhood Services Committee Meeting held on 23 November 2022. (To follow).

Facilities Management and Maintenance

4.0 Future model for provision of Christmas Illuminations and ad hoc celebratory lighting. (Attached)

📎 *Report - Future Model for provision of Christmas illuminations and ad hoc lighting events 141222 (002).pdf*

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Exempt Information Items

5.0 Update on request to sub lease the Bog Road Amenity Area Forkhill. (Attached).

This item is deemed to be restricted by virtue of Paragraph 3 of Part 1 of Schedule 6 of the Local Government Act (Northern Ireland) 2014 - information relating to the financial or business affairs of any particular person, (including the Council holding that information) and the public may by resolution, be excluded during this item of business.

📎 *Report - Update on request to sub lease the Bog Road Amenity Area Forkhill 141222.pdf*

Not included

📎 *Appendix 1 Site Plan of Bog Road Amenity Area Forkhill.pdf*

Not included

📎 *Background Report - Request to Sub Lease the Bog Road Amenity Area Forkhill 141222.pdf*

Not included

6.0 Newry Market Revitalisation. (Attached)

This item is deemed to be restricted by virtue of Paragraph 3 of Part 1 of Schedule 6 of the Local Government Act (Northern Ireland) 2014 - information relating to the financial or business affairs of any particular person, (including the Council holding that information) and the public may by resolution, be excluded during this item of business.

📎 *Report - Newry Market - Revitalisation v 2.pdf*

Not included

7.0 Facilities Management and Maintenance Procurement Action Plan Update December 2022. (Attached).

This item is deemed to be restricted by virtue of Paragraph 3 of Part 1 of Schedule 6 of the Local Government Act (Northern Ireland) 2014 - information relating to the financial or business affairs of any particular person, (including the Council holding that information) and the public may by resolution, be excluded during this item of business.

📎 **Report - Facility Management Maintenance Procurement Action Plan Update
December 2022 141222.pdf**

Not included

8.0 Waste Management Procurement Action Plan Update. (Attached)

This item is deemed to be restricted by virtue of Paragraph 3 of Part 1 of Schedule 6 of the Local Government Act (Northern Ireland) 2014 - information relating to the financial or business affairs of any particular person, (including the Council holding that information) and the public may by resolution, be excluded during this item of business.

📎 **Item 8. Report - WM Procurement Action Plan Update.pdf**

Not included

📎 **Item 8. Appendix - WM Procurement Action Plan Update.pdf**

Not included

For Noting - Exempt Information Items

9.0 Arc21 Joint Committee Members' Monthly Bulletin held on 6 December 2022. (Attached)

This item is deemed to be restricted by virtue of Paragraph 3 of Part 1 of Schedule 6 of the Local Government Act (Northern Ireland) 2014 - information relating to the financial or business affairs of any particular person, (including the Council holding that information) and the public may by resolution, be excluded during this item of business.

📎 **ARC21 - JC075-6Dec22-JC MembersBulletin.pdf**

Not included

10.0 Arc21 Joint Committee Meeting in Committee Minutes of Thursday 27 October 2022. (Attached)

📎 **ARC21 - JC075-6Dec22-Item7-JC InCommMinutes27Oct.F.pdf**

Not included

For Noting

11.0 Northern Ireland Local Authority Collected Municipal Waste Management Statistics Annual Report 2021/22. (Attached).

📎 **LAC-Annual Report - Municipal Waste 2021-22-.pdf**

Page 6

12.0 Arc21 Joint Committee Meeting Minutes of Thursday 27 October 2022. (Attached).

📎 **ARC21 - JC075-6Dec22-Item3-JC Mins 27Oct22.F.pdf**

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13.0 Historical Action Sheet. (To follow).

Report to:	Sustainability & Environment Committee
Date of Meeting:	20 th December 2022
Subject:	Future model for provision of Christmas illuminations and ad hoc celebratory lighting
Reporting Officer	Kevin Scullion, Assistant Director: Facilities Management & Maintenance Department
Contact Officer	Kevin Scullion, Assistant Director: Facilities Management & Maintenance Department

Confirm how this Report should be treated by placing an x in either:-

For decision	For noting only	X
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1.0	Purpose and Background
1.1	<p>The purpose of this report is to consider the future model for delivery of Christmas illuminations and ad hoc lighting effects provided by the Council.</p> <p>The current contract for provision of Christmas illuminations comes to an end in January 2023 and an opportunity presents to review the model which has been used for the past number of years.</p>
2.0	Key issues
2.1	<p>Councils have no statutory responsibility to provide Christmas illumination displays or other celebratory lighting (e.g., St Patricks Day) but Councils do provide this service, to a lesser or greater extent.</p> <p>This Council holds a significant stock of Christmas illuminations, mainly illuminations which are mounted on lampposts within towns and villages. For Christmas 2022 the Council erected over 630 pole mounted Christmas illuminations, over 65 lit pole wraps, 13 lit Cross Street features, over 200 street trees were lit, 11 cut Christmas Trees were set up with lights, 7 outdoor artificial Christmas trees were erected, over 30 sustainable Christmas trees have been planted across the district and numerous other smaller features.</p> <p>Newry Town Hall was lit up with a Christmas theme. The Warrenpoint Park Bandstand was lit up with Christmas decorations, pole wraps were placed on the lampposts within the park and a special lit cartoon feature located beside the playpark which gave a focus for a family photo.</p> <p>There is considerable planning, preparation, and ongoing works to maintain the displays. This work begins with planning for Christmas in January and continues over the summer months with testing and repair of lights prior to their installation from the end of October</p>

to ensure all is in place before Christmas Switch on Events. Over the Christmas period work continues to repair faulty items and in early January there is an urgency to have all lights turned off by 6th January and returned to Stores before the end of the third week in January.

Whilst Council Officers play a central role in these works, it has been a team effort involving Council Officers and the Council appointed electrical contractor and other contractors to make for a successful delivery of the programme.

The contract under which the Council's Christmas illuminations contractor was appointed comes to an end in January 2023 which presents an opportunity to review the model which has been used for the past number of years. The current contract was for a three-year period.

In addition to the above there is further ad hoc spending on providing illuminations for specific events. Examples of this would include lighting up Council buildings/structures for St Patricks day.

For two buildings, Newry Town Hall and Down Leisure Centre, this has involved provision of customised lighting which allows the lighting of the buildings in a range of colours. This has proved very effective to address requests from a variety of charities to light buildings a specific colour as part of campaigns to highlight causes. Consideration is required for the servicing and eventual replacement of this lighting.

2.2

Council spend on Christmas illuminations is a combination of revenue spend and capital spend. Revenue spend is used for the costs to employ a contractor to test, repair, erect and remove Christmas illuminations. Revenue spend is also used for the payment of electricity charges arising from the Christmas display.

Capital spend is used for the procurement of new Christmas illuminations to replace old stock or to provide new illuminations for a new identified requirement.

Table 1 below provides a summary of revenue, capital spend and electricity charges over the past five years. Costs for the current year 2022/23 are expected to be similar to 2021/22 with the exception of electricity charges which will be higher due to the recent increases in electricity charges.

Table 1 – Spend on Christmas illuminations and lighting

Year	Revenue spend £	Capital spend £	Electricity Charge £	Annual Total £
2017/18	128,193	0	11,474	139,667
2018/19	223,167	31,167	10,441	264,775
2019/20	196,521	51,986	9,452	257,959
2020/21	184,883	63,741	6,097	254,721
2021/22	234,936	19,791	7,199	261,926

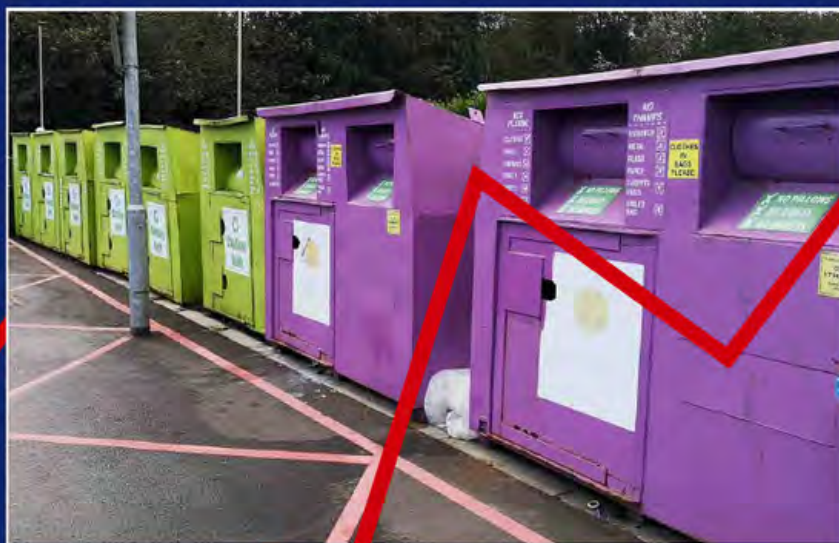
	Total £	1,179,048
	Information on spend on other celebratory lighting is not currently available.	
2.3	<p>Given the end of the current contract for provision of Christmas illuminations an opportunity presents to consider the future model for delivery of Christmas illuminations and ad hoc celebratory lighting across the district.</p> <p>It is proposed to present at a future meeting of this Committee an Economic Appraisal which reviews the model for providing Christmas illuminations and ad hoc celebratory lighting. Within this appraisal a number of options will be considered.</p> <p>One option under consideration will be to continue with the existing model whereby the Council employs an electrical contractor to install Christmas illuminations which are owned by the Council. This will be paid for using the Council's revenue budget. The Council will replace each year those Christmas illuminations deemed beyond repair with new ones using its capital budget. Within this model the Council will continue with its recently entered into 10-year hire agreement for five artificial Christmas trees which were used for the first time this year.</p> <p>Another option under consideration will be to appoint a contractor who will work with the Council to transition over the period of the contract from a position where the Council owns the Christmas illuminations to hiring Christmas illuminations each year. The contractor will be responsible for erection of the Christmas illuminations. The Council under this option will have no requirement to store Christmas illuminations. Under this option there will be greater scope to vary displays from one year to the next.</p>	
3.0	Recommendations	
3.1	<ul style="list-style-type: none"> Note the content of the report. 	
4.0	Resource implications	
4.1	The provision of Christmas illuminations and ad hoc celebratory lighting has been through a combination of revenue and capital spend. Spend over the past five years has been £1,179,048.	
5.0	Due regard to equality of opportunity and regard to good relations (complete the relevant sections)	
5.1	<p><i>General proposal with no clearly defined impact upon, or connection to, specific equality and good relations outcomes</i></p> <p>It is not anticipated the proposal will have an adverse impact upon equality of opportunity or good relations <input checked="" type="checkbox"/></p>	
5.2	<p><i>Proposal relates to the introduction of a strategy, policy initiative or practice and / or sensitive or contentious decision</i></p> <p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	

	<p>If yes, please complete the following:</p> <p>The policy (strategy, policy initiative or practice and / or decision) has been equality screened <input type="checkbox"/></p> <p>The policy (strategy, policy initiative or practice and / or decision) will be subject to equality screening prior to implementation <input type="checkbox"/></p>
5.3	<p>Proposal initiating consultation</p> <p>Consultation will seek the views of those directly affected by the proposal, address barriers for particular Section 75 equality categories to participate and allow adequate time for groups to consult amongst themselves <input type="checkbox"/></p> <p>Consultation period will be 12 weeks <input type="checkbox"/></p> <p>Consultation period will be less than 12 weeks (rationale to be provided) <input type="checkbox"/></p> <p><i>Rationale:</i></p>
6.0	<p>Due regard to Rural Needs (please tick all that apply)</p>
6.1	<p>Proposal relates to developing, adopting, implementing or revising a policy / strategy / plan / designing and/or delivering a public service</p> <p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>If yes, please complete the following:</p> <p>Rural Needs Impact Assessment completed <input type="checkbox"/></p>
7.0	<p>Appendices</p>
7.1	<p>None</p>
8.0	<p>Background Documents</p> <p><i>This relates to meeting requirements outlined in Part 8 of the Local Government Act (NI) 2014, Access to Meetings and Documents, wherein for four years after a meeting the following must be available at the Council Offices and on the website:</i></p> <p><i>Background papers which are defined as those documents relating to the subject matter of a report which:</i></p> <p><i>a) Disclose any facts or matters which in the opinion of the Chief Executive, the report or an important part of the report is based upon; and</i></p>

	<p><i>b) Have, in the Chief Executive's opinion, been relied upon to a material extent in preparing the report.</i></p> <p><i>These are documents on which the report, or an important part of the report, is based upon and have been relied upon to a material extent in preparing the report.</i></p>
8.1	None

Northern Ireland Local Authority Collected Municipal Waste Management Statistics

Annual Report 2021/22



Sustainability at the heart of a living, working, active landscape valued by everyone.

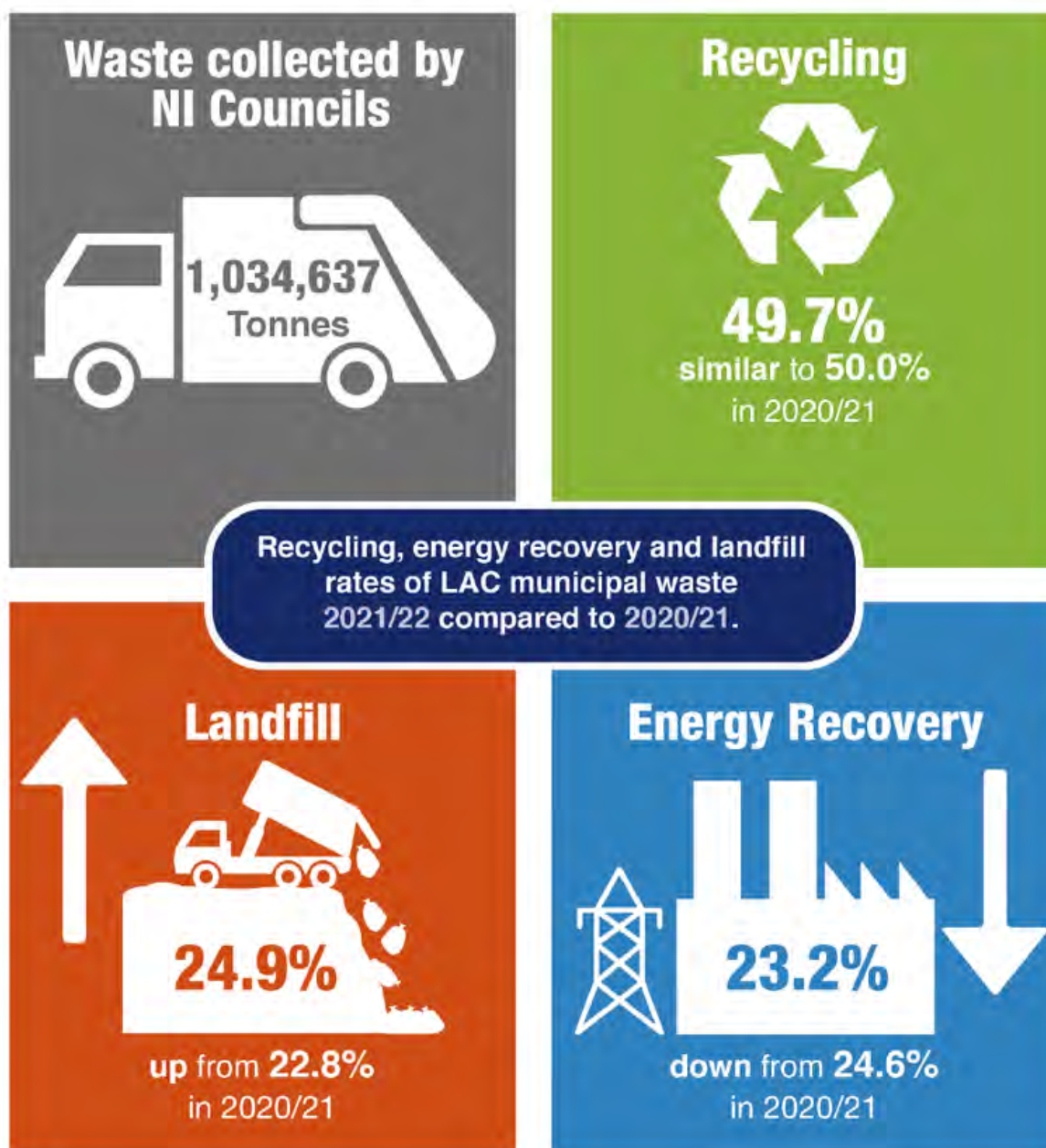


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Northern Ireland waste management statistics annual report 2021/22



Key Points for Northern Ireland

- Northern Ireland's councils collected 1,034,637 tonnes of waste during 2021/22 which was similar to the amount collected in 2020/21. During 2021/22, 49.7 per cent of waste collected by councils was sent for recycling which was also similar to the recycling rate in 2020/21 (50.0 per cent).
- The landfill rate for waste collected by councils was 24.9 per cent in 2021/22, 2.1 percentage points higher than 22.8 per cent in 2020/21 which was the lowest rate recorded.
- The energy recovery rate for waste arisings was 23.2 per cent in 2021/22 compared to a quarter of arisings (24.6 per cent) in 2020/21, and 0.4 per cent 12 years ago.
- Household waste accounted for 88.0 per cent of all local authority collected waste during 2021/22. The recycling rate for household waste was 50.1 per cent while the landfill rate for household waste was 24.7 per cent.
- Belfast generated the smallest amount of household waste per capita at 429 kg whilst Antrim & Newtownabbey recorded the largest at 554 kg per capita.
- There were 141,301 tonnes of biodegradable waste sent to landfill during 2021/22, an increase of 11.8 per cent from the quantity reported in 2020/21 (126,404 tonnes).

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Issued by:

Statistics and Analytical Services Branch
Department of Agriculture, Environment
and Rural Affairs (DAERA), Room 555,
Dundonald House
Belfast BT4 3SB

Contact: Conor McCormack

Telephone: 028 9052 5450

Email: env.stats@daera-ni.gov.uk

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Reader Information

This document may be made available in alternative formats, please contact us to discuss your requirements. Definitions of key terms used in this publication are available in [Appendix 2 – Glossary](#).

The data are also used by media, the general public and special interest groups to inform policy and lifestyle choices related to the treatment of waste.

Further details are available in [Appendix 1 – Main Uses of Data](#)

Purpose

This is an annual publication which reports finalised figures on the key measurements of local authority collected municipal waste for councils and waste management groups in Northern Ireland.

The data contained are used by local authorities, waste management groups, Devolved Administrations, UK Government and the EU to measure progress towards achieving targets from various waste strategies including:

- The revised Northern Ireland Waste Management Strategy
- The Waste Framework Directive

Data on household recycling was a population indicator for the previous Programme for Government (PfG) and has been proposed as an indicator in the forthcoming PfG.

Next Updates

- Provisional figures for July to September 2022 will be available in January 2023.
- Finalised data for 2022/23 are scheduled to be published in November 2023 and will supersede previously published data from the four quarterly returns for that financial year.
- The scheduled dates for all upcoming publications are available from the GOV.UK statistics release calendar: <https://www.gov.uk/government/statistics>

Introduction

This report presents finalised and validated information on the quantities of local authority collected (LAC) municipal waste collected and managed in Northern Ireland over the 2021/22 financial year, as well as trend data over previous years. It provides information on the quantities of waste arising, sent for preparing for reuse, dry recycling, composting, energy recovery and sent to landfill. Some of these measurements are key performance indicators (KPIs). These are used to assess progress towards achieving waste strategy targets and where appropriate this is highlighted in the tables and charts.

Owing to the reform of local government, 26 council districts in Northern Ireland were reorganised into 11 new councils from 1 April 2015. During this period, 8 of the 11 new councils formed two Waste Management Groups (WMGs) with 3 councils unaffiliated to any group. WMGs produce, develop and implement Waste Management Plans for their areas of responsibility and are an important part of the data submission process. The group with the largest share of the population is arc21 with 59 per cent. The North West Regional Waste Management Group (NWRWMG) has 15 per cent of the population with the remaining 26 per cent residing in councils not belonging to a waste management group.

There are six councils in **arc21**: Antrim & Newtownabbey; Ards & North Down; Belfast; Lisburn & Castlereagh; Mid & East Antrim; and Newry, Mourne & Down.

NWRWMG contains two councils: Causeway Coast & Glens; and Derry City & Strabane. The remaining three councils are not members of a WMG: Armagh City, Banbridge & Craigavon; Fermanagh & Omagh; and Mid Ulster.

Figure 1: Map of councils and waste management groups in Northern Ireland



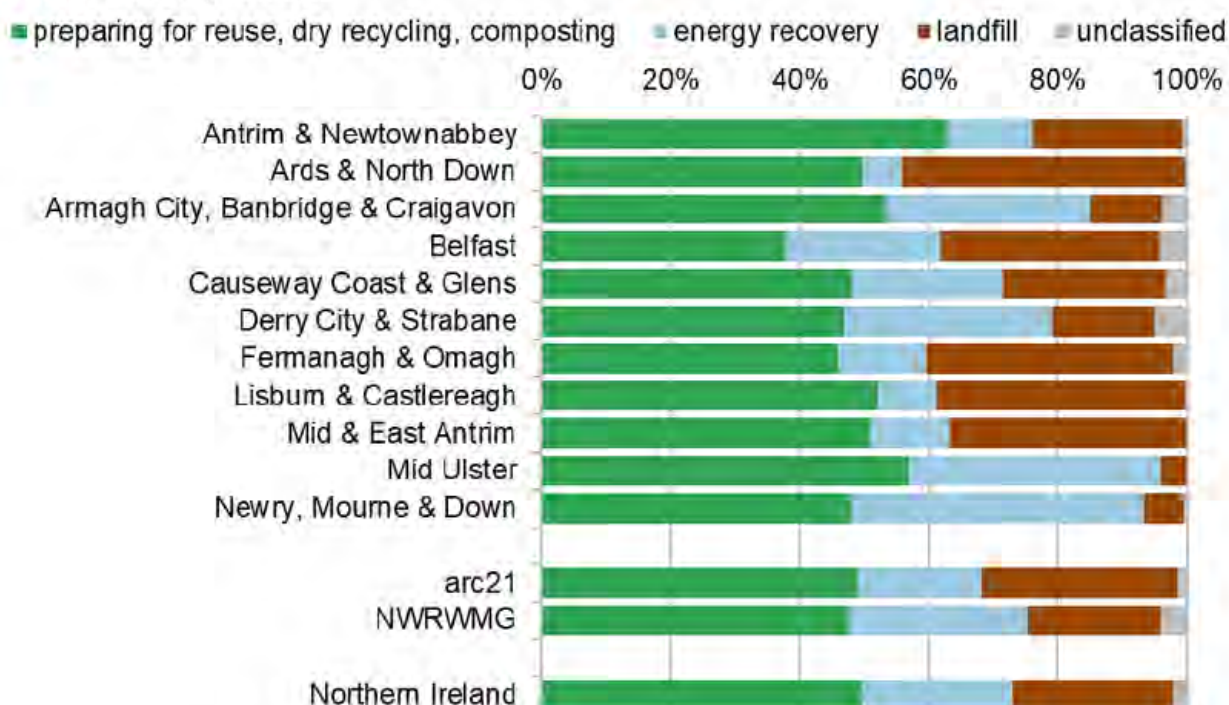
Overview

This report presents information on the quantities of local authority collected municipal waste managed in Northern Ireland during the 2021/22 financial year. The report is split into four sections, each of which cover local authority collected (LAC) municipal waste and, where appropriate, household waste:

- waste arisings (pages 5-8),
- reuse, dry recycling and composting (pages 9-13),
- energy recovery (pages 14-16),
- landfill (pages 17-19).

Figure 2: Waste preparing for reuse, dry recycling, composting, energy recovery and landfill rates by council and waste management group

Northern Ireland, 2021/22



At the Northern Ireland level, 49.7 per cent of waste collected by councils was sent for preparing for reuse, dry recycling and composting during 2021/22. Energy recovery accounted for 23.2 per cent whilst 24.9 per cent was sent to landfill. The remaining 2.2 per cent is likely to involve moisture and/or gaseous losses. Each of the rates are discussed in detail in the appropriate section of the report.

The rate of waste sent for preparing for reuse, dry recycling and composting was similar to the rate recorded in 2020/21. The energy recovery rate decreased by 1.3 percentage points while the landfill rate increased by 2.1 percentage points.

Household waste accounted for 88.0 per cent of total waste. Household waste includes materials collected directly from households via kerbside collections, material taken to bring sites and civic amenity sites as well as several other smaller sources.

Waste Arisings

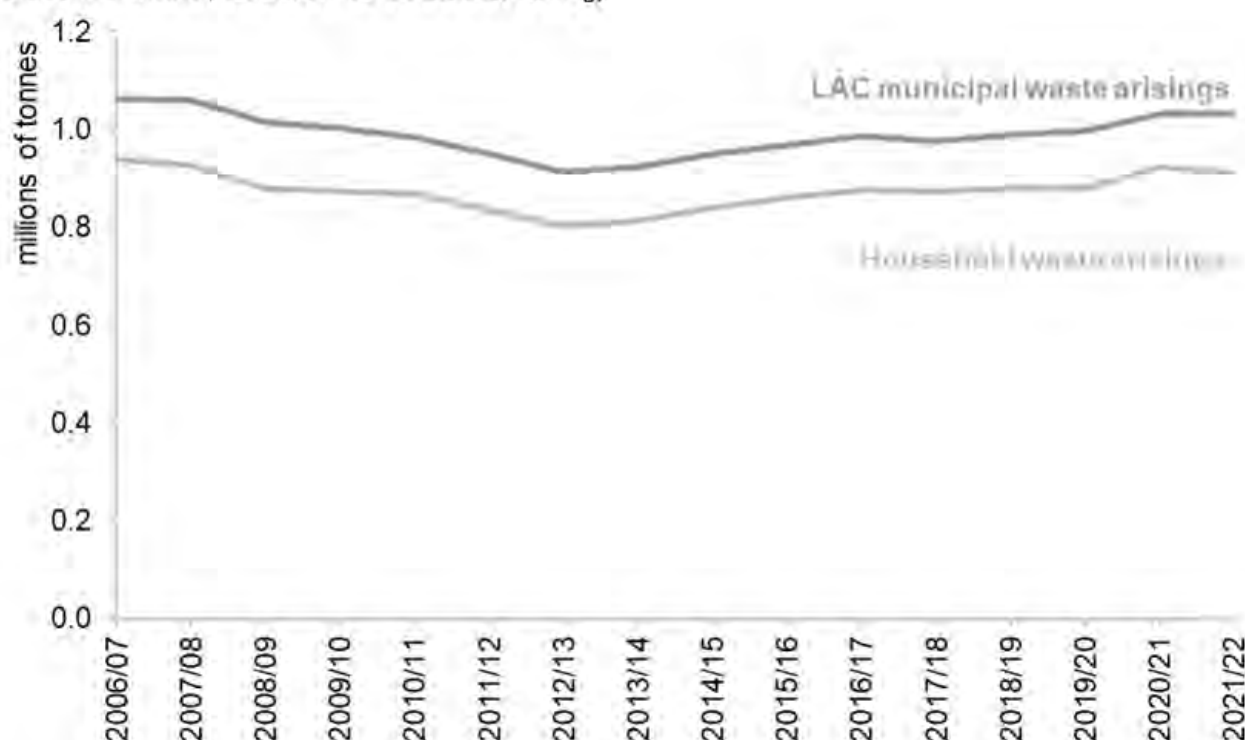
The total quantity of local authority collected (LAC) municipal waste arisings is a key performance indicator, KPI (j). This indicator is also used to monitor performance under the [Local Government \(Performance Indicators and Standards\) Order \(Northern Ireland\) 2015](#).

In 2021/22, Northern Ireland's councils collected 1,034,637 tonnes of waste. This is similar to 2020/21 when 1,031,169 tonnes were collected. Whilst the tonnage of waste collected at kerbside decreased by 4.0 per cent during 2021/22 compared to the previous year, waste collected at civic amenity sites increased by 12.9 per cent. These changes will be in response to the relaxation of coronavirus (COVID-19) restrictions and a return to fully operating civic amenity sites compared to 2020/21.

Since 2006/07 household waste has accounted for 86-90 per cent of total waste collected by councils. In 2021/22 household waste accounted for 88.0 per cent. Household waste includes materials collected directly from households via kerbside collections, material taken to bring sites and civic amenity sites as well as several other smaller sources. The remaining 12.0 per cent was non-household waste such as rubble/soil and commercial/industrial waste.

Figure 3: Waste arisings

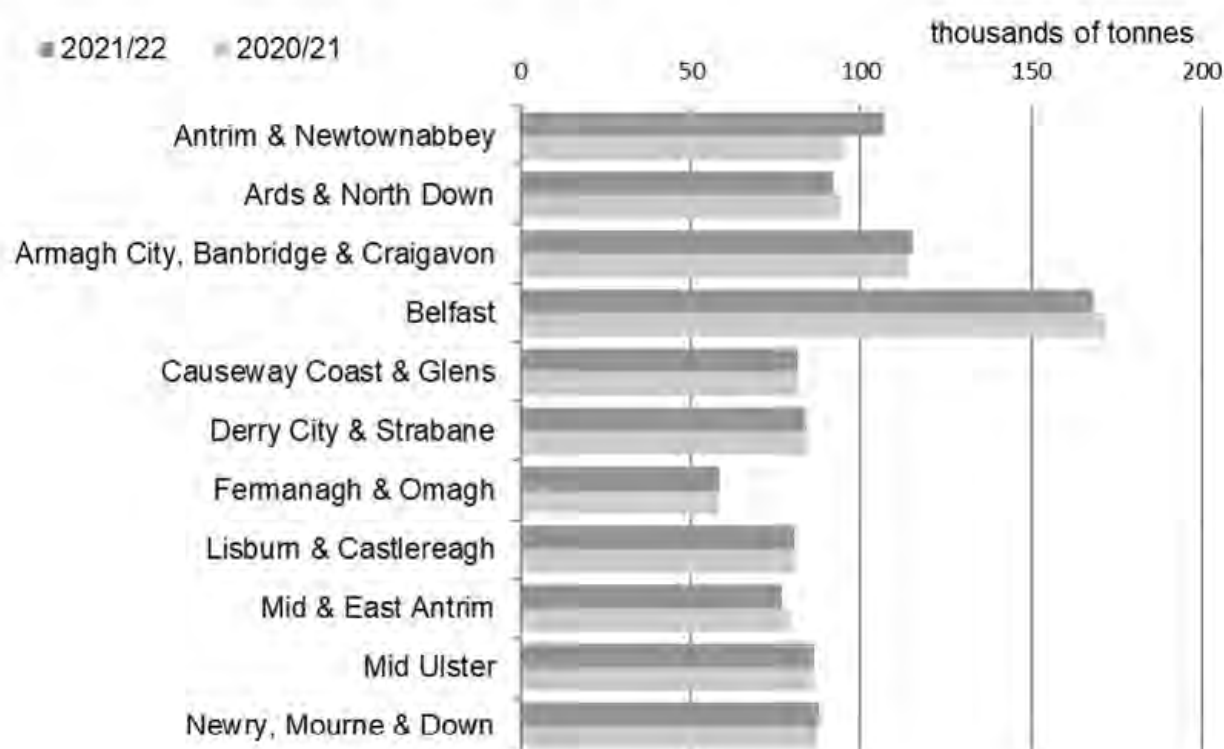
Northern Ireland, 2006/07 to 2021/22, KPI (j)



Total waste arisings fell from 1,064,090 tonnes in 2006/07 to a low of 913,546 in 2012/13, a 14.1 per cent decrease. Since then, total arisings have shown an increasing trend with a 13.3 per cent increase recorded over the nine years.

Factors affecting waste arisings, the majority of which is household waste, include individual household behaviours, the advice and collection services provided by councils, the state of the economy and the weather conditions during the year.

Figure 4: Waste arisings by council
Northern Ireland, 2020/21 and 2021/22, KPI (j)



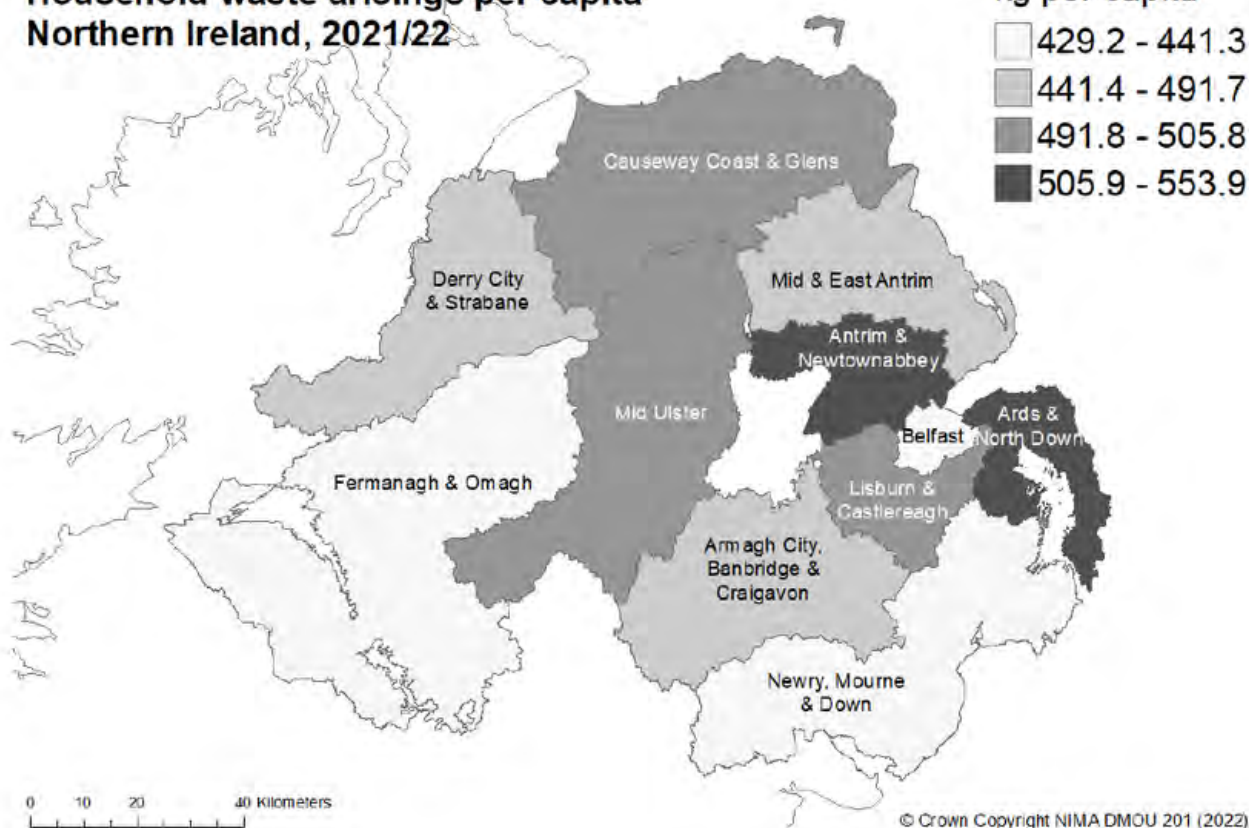
The proportion of waste collected by each council broadly reflects the population within the councils. Belfast City Council had the greatest waste arisings in 2021/22 with 168,037 tonnes. This was 16 per cent of total Northern Ireland waste arisings, with 18 per cent of the population living in this council area. Fermanagh & Omagh District Council had the lowest arisings in 2021/22 with 58,211 tonnes collected. This represented 6 per cent of total arisings during this period, the same as the proportion of the population living in this council area.

Antrim & Newtownabbey reported the largest increase in their waste arisings compared with last year, increasing by 11.9 per cent. A 34.9 per cent increase in waste collected at civic amenity sites in the council area was the primary reason for this increase. Armagh City, Banbridge & Craigavon and Newry, Mourne & Down also reported increased waste arisings compared with last year. Six councils reported decreases in waste arisings with the largest decrease recorded in Mid & East Antrim where they fell by 2.9 per cent. There was little change in the waste arisings of the remaining two councils.

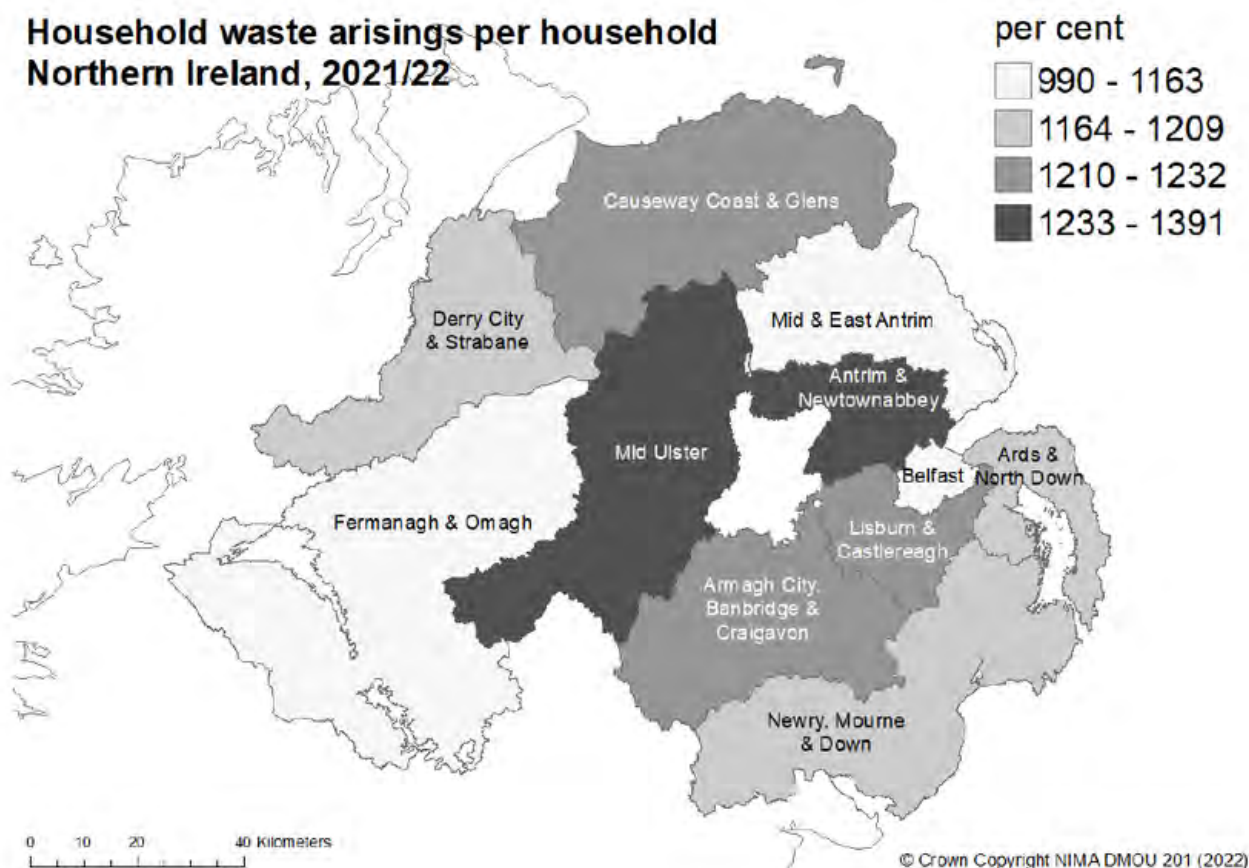
There are two key performance indicators which look at household waste arisings in more detail by considering household waste arisings per capita, KPI (p), and per household KPI (h). In Northern Ireland there were 479 kilogrammes (kg) of household waste collected per capita and 1,178 kg per household during 2021/22, compared to 488 kilogrammes (kg) of household waste collected per capita and 1,207 kg per household during 2020/21.

Figure 5: Household waste arisings per capita and per household by council
Northern Ireland, 2021/22, KPIs (p) and (h)

Household waste arisings per capita
Northern Ireland, 2021/22



Household waste arisings per household
Northern Ireland, 2021/22



Belfast generated the smallest amount of household waste per capita at 429 kg in 2021/22, followed by Fermanagh & Omagh and Newry, Mourne & Down. The largest quantity was recorded in Antrim & Newtownabbey at 554kg per capita. Household waste per capita fell in the majority of council areas compared to last year, with the greatest decrease recorded in Mid & East Antrim of 6.5 per cent. The largest increase was recorded in Antrim & Newtownabbey which increased by 2.0 per cent.

The household waste arisings per household show a similar distribution across Northern Ireland to household waste arisings per capita with some small differences. Belfast City Council generated the smallest quantity of household waste per household at 990 kg per household. The largest quantity per household was recorded in Mid Ulster at 1,391 kg per household closely followed by Antrim & Newtownabbey.

The arisings figures can be found in Tables 1 and 2 of the data tables appendix. The per capita and per household figures can be found in Table 18. All figures are also available from the [time series dataset](#).

Recycling (preparing for reuse, dry recycling and composting)

This section of the report looks at local authority collected (LAC) municipal and household waste recycling rates. Both are key performance indicators and now include waste sent for preparing for reuse, dry recycling and composting. Previously used key performance indicators KPI (a) and (e) have been modified, in line with the rest of the UK, to include waste sent for preparing for reuse, and relabelled as KPI (a2) and (e2). The impacts were small, adding 0.1-0.2 percentage points to the rates, and resulted in the break in the time series visible in Figure 6. The KPI (a2) indicator is also used to monitor performance under the [Local Government \(Performance Indicators and Standards\) Order \(Northern Ireland\) 2015](#).

In 2021/22, the tonnage of waste sent for preparing for reuse, dry recycling and composting (referred to as 'recycling' for the rest of this section) was 513,791 tonnes. The recycling rate was 49.7 per cent which was similar to the recycling rate recorded in 2020/21. The preparing for reuse and dry recycling rates remained similar to those reported in 2020/21, however the composting rate decreased slightly by 0.6 percentage points.

Figure 6: Waste sent for preparing for reuse, dry recycling and composting
Northern Ireland, 2006/07 to 2021/22, KPIs (a), (a2), (e), (e2)



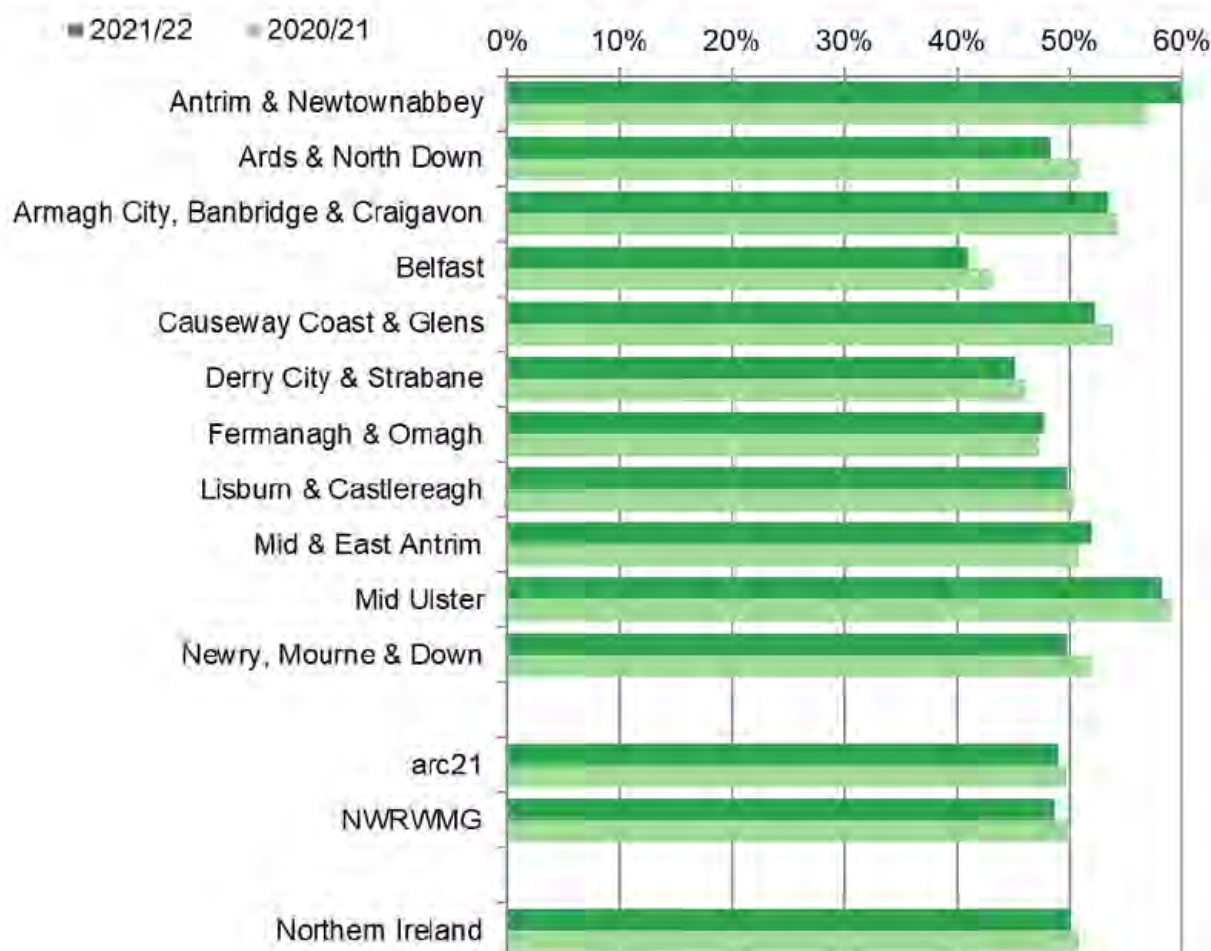
The household waste recycling rate was 50.1 per cent in 2021/22, 0.8 percentage points lower than the 2020/21 household waste recycling rate. The proportion of household waste sent for preparing for reuse was 0.3 per cent, dry recycling made up 23.2 per cent and composting was 26.6 per cent.

The household waste recycling rate continues to meet the Northern Ireland Waste Management Strategy target to recycle 50 per cent of household waste by 2020. Additionally, the Programme for Government Framework 2016-2021 contained the percentage of household waste that is reused, recycled or composted as a measure for

indicator 36 under outcome 2: we live and work sustainably, protecting the environment. It is also proposed as a population indicator in the next Programme for Government Framework.

Figure 7a compares the household recycling rates for 2021/22 and 2020/21, whilst Figure 7b illustrates changes to the component parts of the household recycling rates for each council.

Figure 7a: Household waste preparing for reuse, dry recycling and composting rate by council and waste management group
Northern Ireland, 2020/21 and 2021/22, KPI (a2)



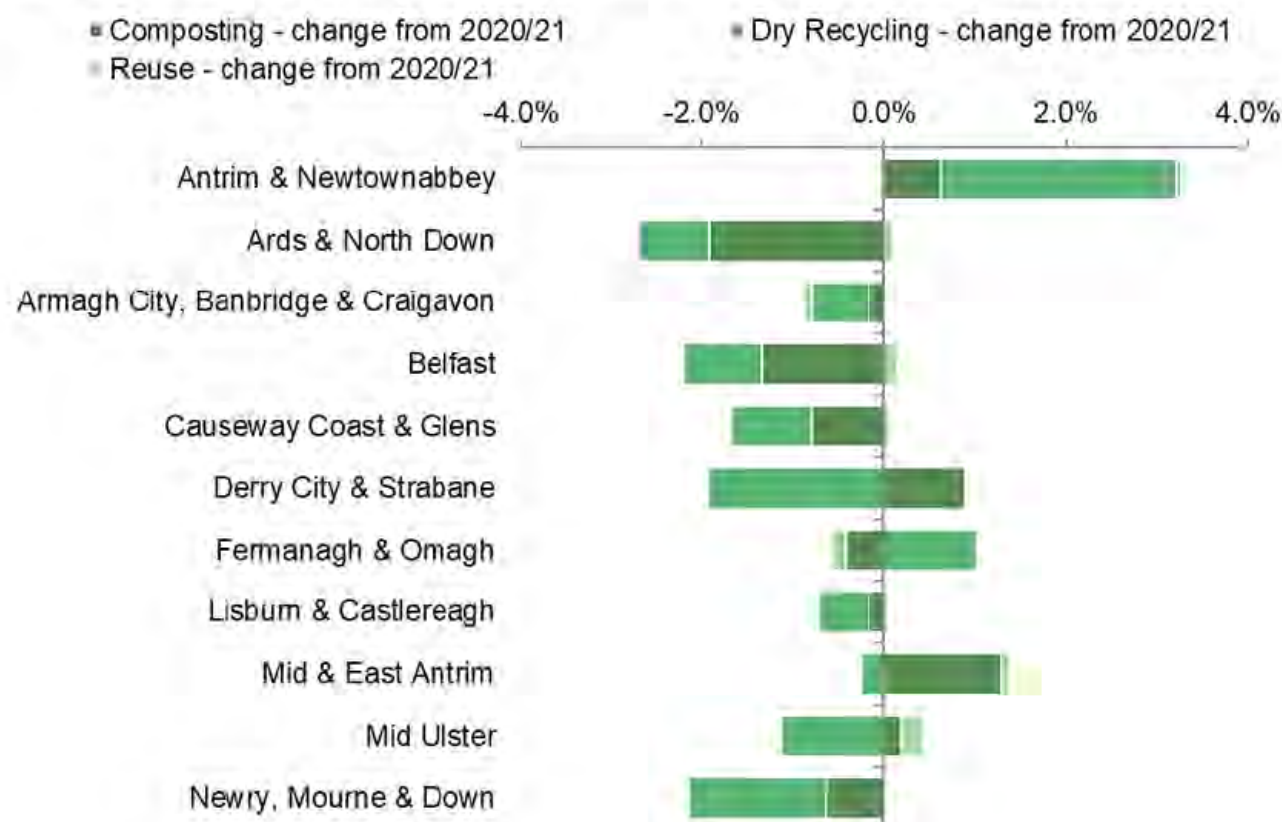
The lowest household waste recycling rates were recorded in Belfast at 41.0 per cent, and Derry City & Strabane at 45.1 per cent. The highest household waste recycling rates were recorded in Antrim & Newtownabbey and Mid Ulster at 60.2 per cent and 58.2 per cent respectively.

Eight councils reported decreased household recycling rates compared to 2020/21, with Ards & North Down reporting the largest decrease at 2.6 percentage points. The decreased recycling rate for Ards & North Down can mostly be attributed to a fall in the household waste composting rate which decreased by 1.9 percentage points. The household waste recycling rate increased by 3.3 percentage points in Antrim & Newtownabbey compared to 2020/21. Mid & East Antrim and Fermanagh & Omagh also recorded increases in their recycling rates.

There was considerable variation in household dry recycling and composting rates between councils. Derry City & Strabane and Fermanagh & Omagh recorded the highest dry recycling rate at 26.9 per cent, whilst Lisburn & Castlereagh recorded the lowest rate at 19.2 per cent. The highest composting rate was in Antrim & Newtownabbey at 35.6 per cent with Derry City & Strabane having the lowest rate at 18.0 per cent. Differences in composting rates across the council areas can be affected by variations in the urban-rural characteristics of the council areas.

Dry recycling and composting rates remained relatively stable for most councils with most changes a decrease from the previous year. The largest decrease in composting was recorded in Ards & North Down where the rate fell by 1.9 percentage points. The largest decrease in dry recycling was also 1.9 percentage points and was recorded in Derry City & Strabane. Dry recycling increased by 2.6 percentage points in Antrim & Newtownabbey compared to 2020/21, the largest increase reported.

Figure 7b: Change reported for household waste preparing for reuse rate, dry recycling rate and composting rate by council
Northern Ireland, 2021/22 compared to 2020/21



Waste from households recycling rate (including preparing for reuse and composting)

An additional recycling rate called the 'waste from households recycling rate', whilst not a key performance indicator, can be used to make comparisons between each of the four UK countries. The UK waste from households recycling rate is reported by calendar year and was 44.4% in 2020, a decrease from 46.0% in 2019. The waste from household recycling rate decreased in England, Scotland and Northern Ireland compared to 2019. In 2020, the waste from household recycling rate for Northern Ireland was 49.1 per cent, compared with 44.0 per cent in England, 41.0 per cent in Scotland and 56.5 per cent in Wales.

The latest comparison for finalised annual figures (by calendar year) is shown in Figure 8, with further data available at <https://www.gov.uk/government/statistics/uk-waste-data>

Figure 8: Waste from households recycling rate (including preparing for reuse and composting)
Comparison of UK Countries, 2020

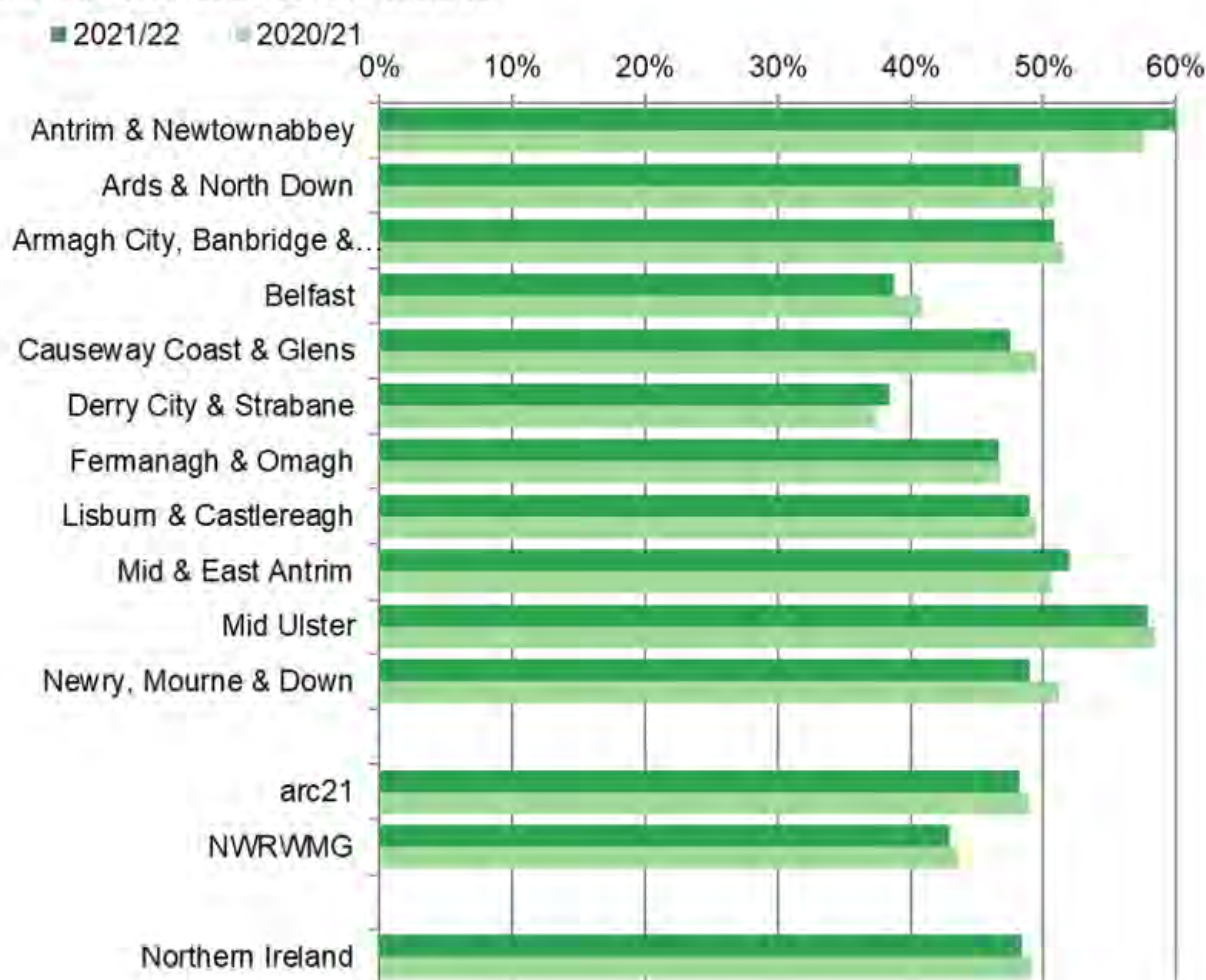


The latest statistics available for waste from household in Northern Ireland are provided below and relate to the 2021/22 financial year.

In 2021/22 there were 422,205 tonnes of waste from households sent for recycling (including preparing for reuse and composting). The waste from households recycling rate was 48.4 per cent. This was a decrease of 0.6 percentage points from the 49.1 per cent of waste from households sent for recycling in 2020/21.

Figure 9: Waste from households recycling rate (including preparing for reuse and composting)

Northern Ireland, 2020/21 and 2021/22



All figures for the recycling section can be found in the accompanying data tables spreadsheet and also in the [time series dataset](#).

- Tables 3 and 4 (Waste recycling)
- Tables 16 and 17 (Household waste recycling)
- Table 23 (Waste from household recycling)

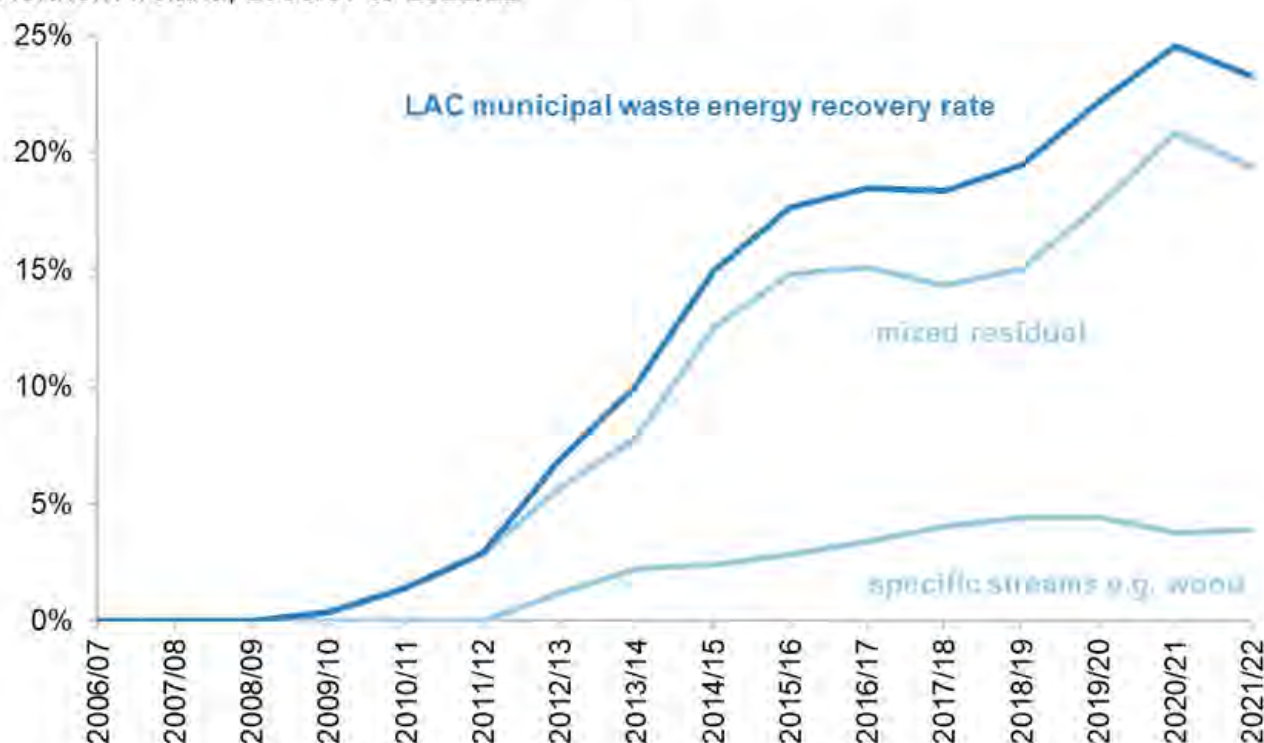
Energy recovery

This annual report includes figures on energy recovery, which is the term used when value is gained from waste products by converting them into energy. All energy recovery figures reported in this section are derived from material sent for energy recovery via incineration/gasification, although other technologies exist. Energy recovery via anaerobic digestion is not included in the figures below and is discussed in more detail at the end of the section.

In 2021/22, 240,339 tonnes of waste arisings were sent for energy recovery. This produced an energy recovery rate of 23.2 per cent, lower than the 24.6 per cent recorded in 2020/21. The majority of energy recovery is derived from mixed residual waste with a smaller proportion from specific streams, e.g. wood.

Figure 10: Waste sent for energy recovery via incineration

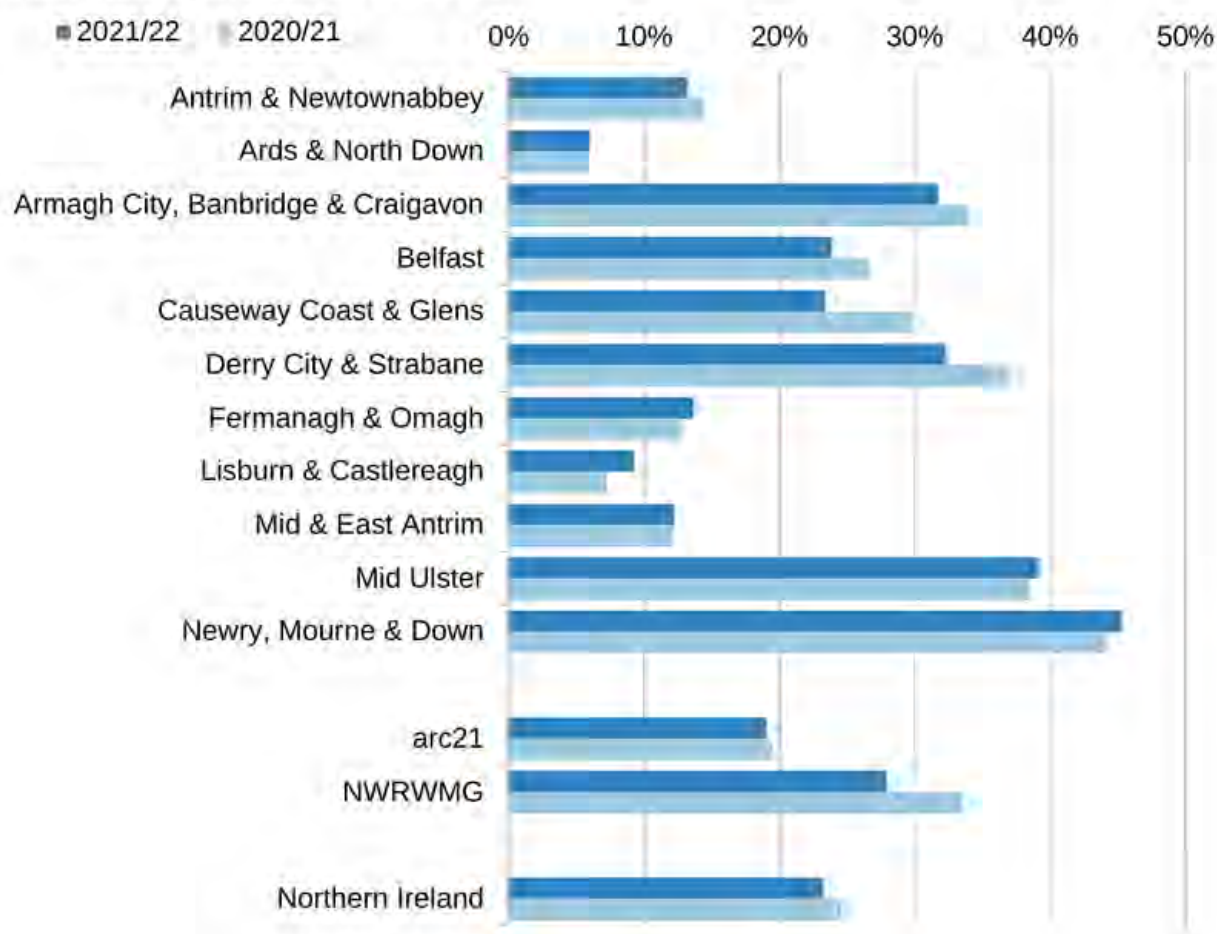
Northern Ireland, 2006/07 to 2021/22



There was zero, or very small quantities, of waste sent for energy recovery before 2009/10. Strong growth followed from 2010/11, with the energy recovery rate increasing from 0.4 per cent in 2009/10 to 24.6 per cent in 2020/21. The energy recovery rate decreased to 23.2 per cent in 2021/22 with a decrease in mixed residual waste responsible for the reduction.

Mixed residual waste sent for energy recovery is combustible residual waste collected from the kerbside and from civic amenity sites and processed into refuse derived fuel at material recovery facilities. The specific streams element of energy recovery is mostly wood but also includes furniture, carpets and mattresses, mostly collected from civic amenity sites.

Figure 11: Waste energy recovery by council and waste management group
Northern Ireland, 2020/21 and 2021/22



Newry, Mourne & Down had the highest energy recovery rate in 2021/22 at 45.3 per cent, an increase of 1.2 percentage points from last year. The lowest energy recovery rate was 6.0 per cent for Ards & North Down, similar to that recorded in 2020/21.

Five councils reported a decrease in the energy recovery rate in 2021/22 compared to 2020/21, the largest of which was in Causeway Coast & Glens at 6.4 percentage points. Lisburn & Castlereagh recorded the largest increase in energy recovery at 2.0 percentage points with three other councils recording an increase in their energy recovery rate.

For both Ards & North Down and Lisburn & Castlereagh, energy recovery from specific streams accounted for a greater proportion of their total energy recovery than mixed residual waste. Antrim & Newtownabbey had the highest energy recovery rate for specific streams at 5.5 per cent, from a total of 13.2 per cent energy recovery rate. Newry, Mourne & Down had the highest energy recovery rate for mixed residual waste at 40.7 per cent.

The NWRWMG had an energy recovery rate of 27.9 per cent, down from 33.4 per cent in 2020/21, but higher than that of arc21 at 19.0 per cent, which decreased from 19.5 per cent in 2020/21.

Generating energy from waste by incineration is preferable to landfill, although preparing for reuse, dry recycling and composting are preferable to both.

Energy Recovery via Anaerobic Digestion

The tonnages relating to energy recovery from material undergoing anaerobic digestion are still accounted for under the recycling section since the vast majority of the tonnage of waste undergoing this process eventually ends up as a compost (once the methane generated from the anaerobic digestion process has been collected). Table 13 in the data tables appendix shows the amount of food waste anaerobically treated to recover energy before ending up as a compost.

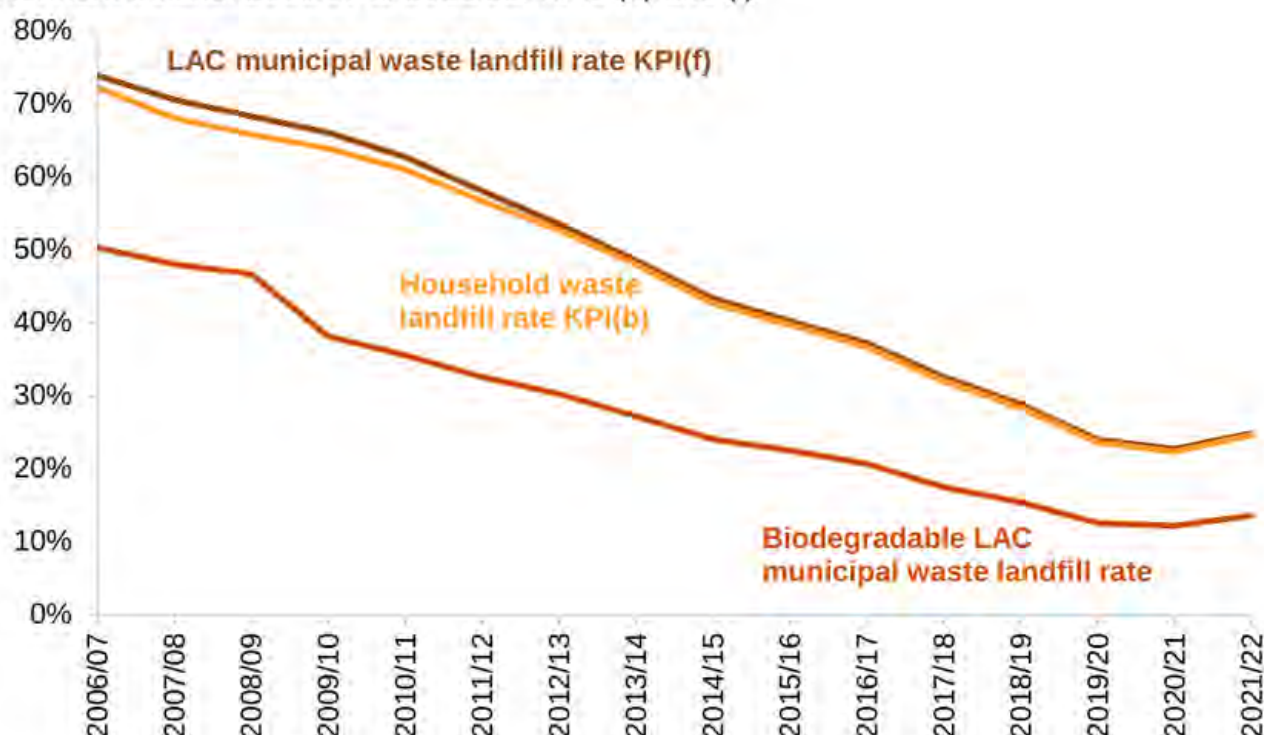
These figures can be found in Tables 3, 4 and 13 of the data tables appendix and in the [time series dataset](#).

Landfill

The quantity of waste sent to landfill increased by 9.8 per cent from 234,956 to 257,900 tonnes between 2020/21 and 2021/22. This produced a landfill rate of 24.9 per cent for 2021/22, 2.1 percentage points higher than the 22.8 per cent recorded in 2020/21 which was the lowest ever landfill rate recorded. Similarly, the landfill rate for household waste recorded its lowest value in 2020/21 of 22.4 per cent which increased by 2.3 percentage points to 24.7 per cent in 2021/22.

Figure 12: Waste sent to landfill

Northern Ireland, 2006/07 to 2021/22, KPIs (b) and (f)

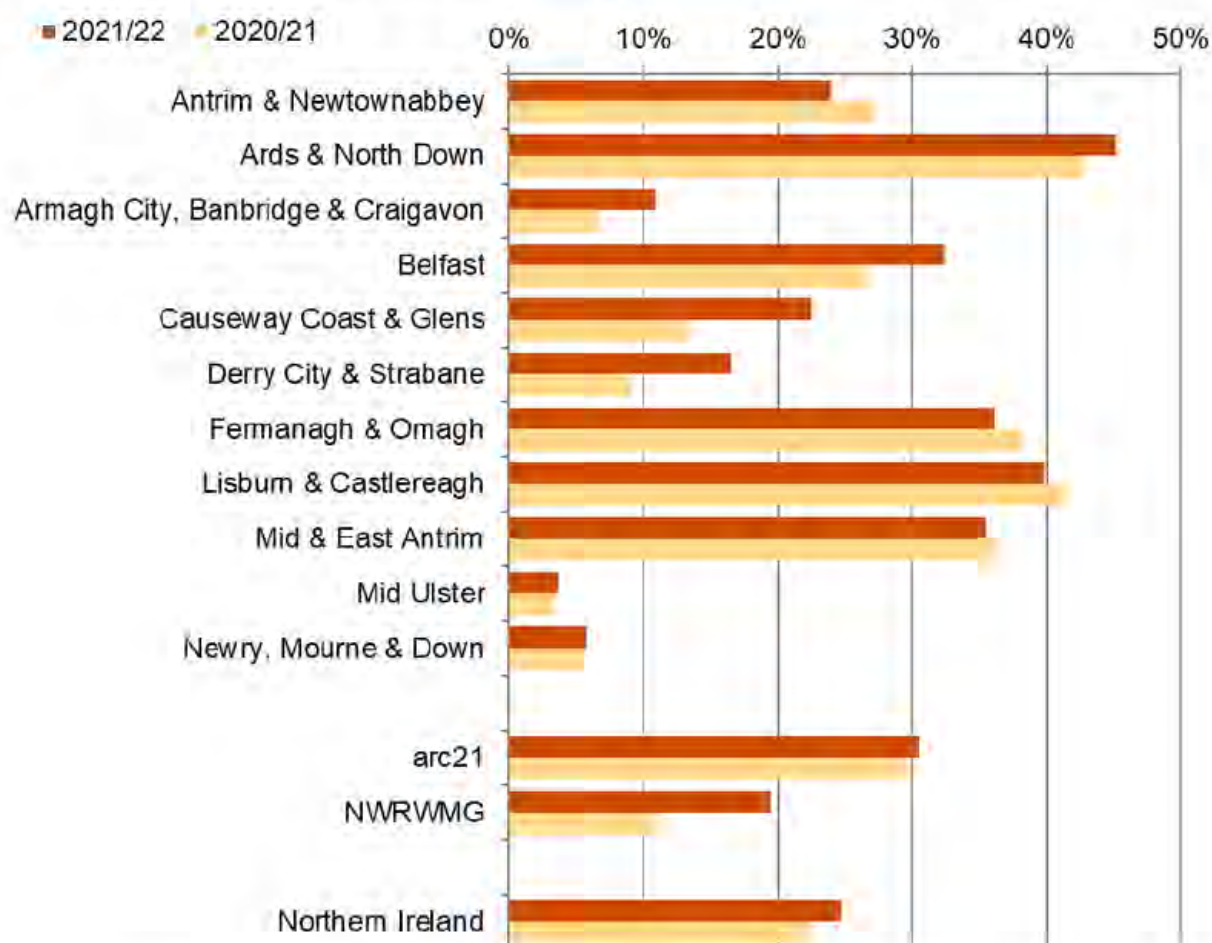


The NWRWMG had a landfill rate of 19.5 per cent, 5.9 percentage points lower than the Northern Ireland rate, but 8.4 percentage points higher than recorded in 2020/21. Arc21's landfill rate was higher than the Northern Ireland rate at 30.6 per cent. This is an increase of 1.0 percentage points compared to 2020/21.

Four councils recorded a decrease in their household landfill rate compared to last year. Decreases ranged from 3.3 percentage points in Antrim & Newtownabbey to 1.0 percentage points in Mid & East Antrim. The household landfill rate increased in five council areas with the largest increase of 9.3 percentage points recorded in Causeway Coast & Glens.

Mid Ulster recorded the lowest household landfill rate at 3.6 per cent while Ards & North Down recorded the highest household landfill rate at 45.1 per cent.

Figure 13: Household waste landfilled by council and waste management group
Northern Ireland, 2020/21 and 2021/22, KPI (b)



The statutory requirement for all councils in Northern Ireland to provide households with a container for food to enable its separate collection contributed to the long-term drop in landfill rates, though increasing energy recovery rates for some councils also contributed. Material, mainly from residual waste treatment, can be sent for energy recovery in the form of refuse derived fuel (RDF) which diverts it from landfill.

Landfill Tax for household waste continues to be the main driver for local authorities to reduce landfill. Other considerations include a limit on the amount of biodegradable Waste as measured by KPI (g). Generating energy from waste by incineration is preferable to landfill, although recycling and reuse are preferable to both.

This data and more information including collection method can be found in the data tables appendix. Tables 3 and 4 cover all waste collected and Tables 16 and 17 cover household waste. The data are also available from the [time series dataset](#).

Biodegradable waste to landfill

The Landfill Allowance Scheme (NI) Regulations 2004 (as amended) placed a statutory responsibility on councils, in each scheme year, to landfill no more than the quantity of biodegradable waste for which they had allowances. The scheme concluded at the end of the 2019/20 financial year, however the continued monitoring of biodegradable waste is required for [existing target commitments](#) which specify that it must be reduced to 35 per cent of the total amount (by weight) of biodegradable municipal waste produced in 1995.

Northern Ireland's councils sent 141,301 tonnes of biodegradable waste to landfill during 2021/22, which was 54.8 per cent of all waste sent to landfill. During the previous year, 126,404 tonnes of biodegradable waste was sent to landfill which was 53.8 per cent of all waste sent to landfill.

Figure 14 displays the tonnages of biodegradable and non-biodegradable waste sent to landfill by each council, comparing them with other councils and to the same quarter last year.

Figure 14: Biodegradable and non-biodegradable waste to landfill by council

Northern Ireland, 2021/22,

■ Biodegradable 2021/22 ■ Non-biodegradable 2021/22
■ Biodegradable 2020/21 ■ Non-biodegradable 2020/21



There is considerable variation between councils in the quantities of biodegradable waste sent to landfill, as well as the proportion of biodegradable waste in total landfill.

In Fermanagh & Omagh, 63.1 per cent of all waste sent to landfill was biodegradable, the highest figure reported.

This data can be found in Table 21 of the data tables appendix and in the [time series dataset](#).

Northern Ireland Key Performance Indicators 2021/22

Key Performance Indicators (KPIs) are a set of measures used to gauge performance in terms of meeting waste strategy targets. They were originally defined in the Environment and Heritage Service (now the Northern Ireland Environment Agency) municipal waste data monitoring and reporting: interim guidelines, published in March 2003.

The table below has been included to help users find a specific KPI value or location in the report or data tables. Previously used key performance indicators KPIs (a) and (e) have been modified, in line with the rest of the UK, to include waste sent for preparing for reuse, and relabelled as KPI (a2) and (e2).

KPI	Performance during 2021/22	Section in report and Appendix Table
a2	50.1 per cent of household waste sent for recycling (including composting and preparing for reuse)	Recycling (pages 9-13) Data table 17a
b	24.7 per cent of household waste landfilled	Landfill (pages 17-19) Data table 17b
e2	49.7 per cent of waste sent for recycling (including composting and preparing for reuse)	Recycling (pages 9-13) Data table 4a
f	24.9 per cent of waste landfilled	Landfill (pages 17-19) Data table 4b
g	141,301 tonnes of biodegradable waste landfilled	Landfill (pages 17-19) Data table 21a
h	1,178 kg of household waste generated per household	Waste arisings (pages 5-8) Data table 18
j	1,034,637 tonnes of waste generated	Waste arisings (pages 5-8) Data table 1
m	See Tables 22i and 22ii for capture rates by primary waste category	Data tables 22i and 22ii
n	0.3 per cent increase in waste generated	Waste arisings (pages 5-8) Data table 2
p	479 kilogrammes of household waste generated per capita	Waste arisings (pages 5-8) Data table 18

The fully validated figures that are published in the annual report have undergone checks by the Northern Ireland Environment Agency (NIEA) and further validation by Statistics and Analytical Services Branch (SASB) in the Department of Agriculture, Environment and Rural Affairs (DAERA). The annual validation acts as a check that all issues raised at the quarterly validation stage have been addressed. Additional validation checks incorporated later in the working year are then also applied backwards to all quarters in the reporting year via the annual validation.

The table below outlines the differences between finalised data in this annual report and the provisional twelve-month rolling figures and time series dataset for April 2021 to March 2022 presented in the data tables for the [January to March 2022 quarterly report](#).

(Data tables – Table 18)

Comparison of provisional and final figures for 2021/22 key performance indicators

KPI	Definition	2021/22 provisional	2021/22 finalised	difference
a2	Percentage of household waste sent for recycling (including composting and preparing for reuse)	50.1 per cent	50.1 per cent	0.0 percentage points
b	Percentage of household waste sent to landfill	24.7 per cent	24.7 per cent	0.0 percentage points
e2	Percentage of waste sent for recycling (including composting and preparing for reuse)	49.7 per cent	49.7 per cent	0.0 percentage points
f	Percentage of waste landfilled	24.9 per cent	24.9 per cent	0.0 percentage points
g	Reported biodegradable waste sent to landfill	141,312	141,301	-12 tonnes
h	Annual household waste collected per household	1,181	1,178	-2.9 kg (-0.25 per cent)
j	Waste arisings	1,034,642	1,034,637	-4.5 tonnes (0.00 per cent)
m	Capture rates	See Tables 22i and 22ii for capture rates by primary waste category		
n	Waste arisings growth rate	0.3 per cent	0.3 per cent	0.0 percentage points
p	Annual household waste collected per capita	481	479	-2.7 kg per capita (-0.57 per cent)

The differences between provisional and final figures are small but arise due to the additional validations carried out before the finalisation of this annual publication.

Progress against targets

Data contained in this release provide an indication of the progress towards achieving waste strategy targets. They allow for the assessment of the performance of the councils and waste management groups in Northern Ireland in managing waste arisings, recycling, composting and landfill.

Overview of progress against targets

Indicator	Source	Progress/ Outcome
To achieve a recycling rate of 45 per cent (including preparing for re-use) of household waste by 2015	Targets 1, 2 & 3 on p39 of the revised Northern Ireland Waste Management Strategy	KPI (a2) Target first met in 2017/18 – 48.1 per cent Latest figures 2021/22 – 50.1 per cent
To achieve a recycling rate of 50 per cent (including preparing for re-use) of household waste by 2020	As above	KPI (a2) Target first met in 2018/19 – 50.0 per cent Latest figures 2021/22 – 50.1 per cent
To achieve a recycling rate of 60 per cent (including preparing for re-use) of LACMW by 2020	As above	KPI (e2) Progress in 2021/22 – 49.7 per cent

Delivering Resource Efficiency - The Northern Ireland Waste Management Strategy 2013 has now formally concluded with its [Closure Report](#) published in June 2022.

Following the publication of the Closure Report DAERA are currently in the process of developing a new Waste Management Strategy which has included a recent stakeholder event.

[New Waste Management Strategy Development - Stakeholder Workshop](#)

Appendix 1: User Guidance

This statistical release is part of a regular data series presenting finalised information on local authority collected municipal waste managed in Northern Ireland.

Description of data

Local authority collected municipal waste (LACMW) data in Northern Ireland. This is municipal waste which is collected under arrangements made by a district council.

Main Uses of Data

Data contained in this release are published primarily to provide an indication of the progress towards achieving waste strategy targets. They allow for the assessment of the performance of the councils and waste management groups in Northern Ireland in managing waste arisings, recycling, composting and landfill. Targets are set for an annual period and performance against targets is considered in the Progress against targets section.

The revised Northern Ireland Waste Management Strategy sets out targets for the management of local authority collected municipal waste.

- To achieve a recycling rate of 45 per cent (including preparing for re-use) of household waste by 2015.
- To achieve a recycling rate of 50 per cent (including preparing for re-use) of household waste by 2020.
- Proposals to achieve a recycling rate of 60 per cent (including preparing for re-use) of LACMW by 2020.

<https://www.daera-ni.gov.uk/articles/waste-management-strategy>

The Programme for Government Framework 2016-2021 contained the percentage of household waste that is reused, recycled or composted as a measure for indicator 36 under outcome 2: we live and work sustainably,

protecting the environment. It is also proposed as a population indicator in the next Programme for Government Framework.

The Local Government (Performance Indicators and Standards) Order (Northern Ireland) 2015 came into operation on 28 September 2015. It contains three waste management indicators which correspond to KPIs (a2), (g) and (j) in this publication.

The Waste Framework Directive statutory target requires member states to recycle 50 per cent of waste from households by 2020.

The data are also used to assess performance against the Landfill Directive targets.

<http://www.ciwm.co.uk/ciwm/knowledge/landfill-directive.aspx>

This annual report provides final validated information on several key performance indicators (KPIs) used to assess progress towards achieving local authority collected municipal waste targets.

The waste data may help to inform particular lifestyle choices of the public, specifically decisions about how to treat their waste. This information feeds into Northern Ireland specific and UK wide research projects and articles carried out and published by Waste and Resource Action Programme (WRAP) – see the following web resources for more information:

<https://www.recyclenow.com/ni>
<http://www.wrap.org.uk/>
<http://laportal.wrap.org.uk/>

These projects are funded by each of the governments within the UK. The results of research by WRAP assist governments to devise strategies to deal with issues such as using resources sustainably, helping people to recycle more and to waste less

both at home and at work, offering economic as well as environmental benefits.

Additionally, waste management information is used to inform the media, special interest groups such as the Chartered Institute of Waste Management (CIWM) which is the professional body representing waste and resource professionals, academics, for example those who would have an interest and/or involvement in the WRAP research mentioned above, and by DAERA to respond to parliamentary / assembly questions and ad hoc queries from the public.

The Northern Ireland Neighbourhood Information Service (NINIS) provides access to waste information with the aim of making it available to as wide an audience as possible by providing interactive charts and mapping facilities that enable the statistics to be interpreted readily in a spatial context.

[http://www.ninis2.nisra.gov.uk/InteractiveMaps/Agriculture per cent20and per cent20Environment/Environment/Local per cent20Authority per cent20Collected per cent20Municipal per cent20Waste per cent20Recycling/atlas.html](http://www.ninis2.nisra.gov.uk/InteractiveMaps/Agriculture%20and%20Environment/Environment/Local%20Authority%20Collected%20Municipal%20Waste%20Recycling/atlas.html)

Local Government Reorganisation

The 26 councils covered by previous reports were reorganised into 11 new councils from 1 April 2015. Prior to this, we consulted with users of the report, the proposed changes and summary of responses are available on the Statistics and Analytical Services Branch (SASB) website <https://www.daera-ni.gov.uk/consultations/proposed-changes-northern-ireland-local-authority-collected-municipal-waste-management-statistics>

At that stage the opportunity was also taken to update the report using feedback from NISRA's peer review group.

Data Developments

Key Performance Indicators (a) and (e)

Prior to 2015/16, Northern Ireland recycling KPIs did not include waste sent for preparing for reuse, unlike the other UK devolved administrations. Waste sent for preparing for reuse has been added to the calculations of these KPIs and they have been renamed KPI (a2) and KPI (e2). This change has been backdated to include data from 2012/13 onwards and allows comparisons across time to be made for these KPIs.

The difference this makes to the quantity of waste recycled is small. During 2021/22 this change added 2,401 tonnes of waste sent for preparing for reuse to the recycling total. This added approximately 0.2 percentage points to the KPI (a) and KPI (e) rates.

These measures are now more consistent with the rest of the UK and more consistent with the definition of the targets in the Waste Management Strategy 2020 and the Local Government (Performance Indicators and Standards) Order (NI) 2015, which include waste sent for preparing for reuse.

Waste from households recycling rate

In Northern Ireland, the household recycling rate is based on 'household waste' as defined in the Waste and Contaminated Land (NI) Order 1997 (the 1997 Order) and Schedule to the Controlled Waste and Duty of Care Regulations (NI) 2013. The new 'waste from households' recycling rate has been introduced for statistical purposes to provide a harmonised UK indicator with a comparable calculation in each of the four UK countries.

This 'waste from households' measure has been added to the report and data tables to enable UK comparisons. However the main focus of this report is still the previous 'household waste' definition because it is the measure most directly related to current Northern Ireland

policy targets. There are targets in the revised Waste Management Strategy and the Local Government (Performance Indicators and Standards) Order (NI) 2015 that reference the prior 'household waste' definition.

There is a difference between 'household waste' and 'waste from households'. The latter has a generally narrower definition than the former. There are a number of sources of waste that were considered under 'household waste' that are not considered by 'waste from households', for example waste from street recycling bins and street cleaning. More information is available from the 'waste from households' calculation guidance on the WDF website.

http://www.wastedataflow.org/documents/guidancenotes/NorthernIreland/OtherGuidanceNotes/WfHrecyclingguidanceNI_v2.pdf

Analysis using 2021/22 data has shown that the 'waste from households' rate is 1.7 percentage points lower than the 'household waste' recycling rate at the Northern Ireland level. However, the difference between these rates vary across councils, with the waste from households being between 6.7 percentage points lower and 0.2 percentage points higher than the household waste recycling rate. The time series file allows the difference in these rates to be compared over quarters and across councils.

Data Sources

Waste Management Data

The information presented in this report is taken from WasteDataFlow (WDF), a web based system for local authority collected municipal waste reporting by UK local authorities to central government. The data are based on returns made to WDF (relating to approximately 40 questions on local authority collected municipal waste management) by councils, within two months of the end of each quarter.

It is increasingly rare that residual waste may still be disposed of directly to landfill. Waste is collected by the councils directly from the kerbside and some civic amenity sites; third parties under contract to the council also collect from the remaining civic amenity sites and almost all of the bring banks. Some larger councils use intermediate bulking up stations where the waste is weighed both coming into and leaving the transfer station. In all cases the waste is weighed on arrival at treatment sites for recovery e.g. Material Recovery Facilities (MRFs) and/or disposal e.g. landfill sites.

MRFs, which sort the co-mingled waste into different resource streams, almost always have more than one input source and so the weighed tonnages of each stream coming out of the plant are assigned pro-rata to each source i.e. based on their input tonnages as a percentage of all input tonnages for that period. Weighbridge dockets are generated which form the basis for statutory Waste Transfer Notes (WTNs) as the waste moves further down the treatment chain/onto reprocessors. These WTNs and/or internal reports (which also form the basis for invoices) are then sent to the council on a monthly basis. These are summarised on a quarterly basis and organised into the relevant WDF questions/categories and finally input by hand into the WDF web portal.

Data providers (councils in Northern Ireland) are supplied with technical guidance documents outlining the methodologies that should be used in the collection, reporting and validation of the data returns. These documents can be accessed on the WDF website.

www.wastedataflow.org/htm/datasets.aspx#NorthernIrelandGuidance

Population Data

Population data used to calculate KPI (p), household waste arisings per capita, was sourced from the 2021 population census, produced by NISRA, and are the

most up to date available at the time of publication.

Household Data

Household data used to calculate KPI (h), household waste arisings per household, are based on the Land and Property Services (LPS) housing stock from April 2022. Note these household figures do not include caravans. An adjustment is made to account for the estimated number of vacant properties. A council-specific occupancy rate was calculated from 2011 Census data and is applied to the LPS data. The datasets can be accessed from the LPS website.

<https://www.finance-ni.gov.uk/topics/statistics-and-research/housing-stock-statistics>

<https://www.finance-ni.gov.uk/topics/statistics-and-research/new-dwelling-statistics>

Data Quality

The data are final and are based on, but supersede, previously published data from the four quarterly returns for the financial year. The data download from WDF were completed on 09 November 2022. At that time, all the district councils had made a return, giving a 100 per cent response rate.

Information contained in this report has been sourced from WasteDataFlow (WDF), which is the web based system for local authority collected municipal waste data reporting by UK local authorities to central government. The data in this report are based on returns made to WDF by district councils in Northern Ireland at the end of the 2021/22 financial year.

The fully validated figures that are published in this annual report have undergone audit by Northern Ireland Environment Agency (NIEA) and further validation by Statistics and Analytical Services Branch (SASB) beyond that which is done on a quarterly basis. The annual validation acts as a check

that all issues raised at the quarterly validation stages have been addressed. Additional validation checks incorporated later in the working year are then also applied backwards to all quarters in the reporting year via the annual validation.

Strengths of Data

Data are derived from WDF with full coverage for all councils to support statutory NILAS diversion targets. As the data are derived from an administrative system, they provide a complete picture of council controlled waste activity in NI.

Validation and audits

Various validation checks are carried out by both NIEA and SASB. Validations are conducted for each individual question, with additional global validations carried out to ensure that total tonnage of waste types is equal to the sum of the component parts. Any discrepancies are queried with the data provider. Variance checks are employed as an integral part of the production process.

In addition, NIEA carry out a year round programme of audits of WDF returns by individual councils. These audits are conducted under Regulation 10 (6)(a) of the NILAS Regulations. Councils are selected from each waste management group and contacted by telephone, letter and e-mail informing them of NIEA's intention to audit. The audit involves checking and confirming relevant data submitted as a NILAS return to the Monitoring Authority via WDF. One quarter of each council's municipal waste returns are selected, generally being the most recent submission. The areas being inspected relate to:

- i. landfilling of municipal waste,
- ii. collection, recycling, reuse and recovery of municipal waste,
- iii. the standard of reporting/evidence for end destinations of recycled materials.

Councils are asked to provide original documentation to support reported figures in the WDF system for the quarter in

question. Any anomalies or discrepancies are subsequently queried with the relevant council. As WDF data can usually only be amended at council level, it is then necessary to 'reject' or release the data back to the waste management group and subsequently back to the council so that it might be corrected as appropriate.

Limitations of Data

Waste Management Data

Despite the intensive validation carried out on the data prior to publication, any administrative system involving manual data compilation will always be open to a degree of clerical error.

Unclassified waste

Unclassified waste is calculated as a residual amount of municipal waste after municipal waste sent to landfill, sent for recycling (including composting), sent for energy recovery and preparing for reuse have been accounted for, instead of being extracted directly from the WasteDataFlow system. The majority of the total unclassified tonnage can be attributed to moisture and/or gaseous losses. Small negative tonnages can arise in the unclassified column if more waste is sent for treatment in the quarter than was actually collected as is more likely at councils operating transfer stations. Transfer stations move waste quickly but if a particular transfer occurs the day after arriving, which also happens to be the start of the next quarter, then a small inconsistency can arise.

Types of waste

There are many different forms of waste, including municipal solid waste, commercial and industrial waste, construction, demolition and excavation waste, hazardous waste, agricultural waste, and waste water and sludges. The latest report on construction, demolition and excavation waste arisings is for 2009/10:

<https://www.daera-ni.gov.uk/publications/construction->

[demolition-and-excavation-waste-arisings-use-and-disposal-northern-ireland](#)

Following on from the UK's agreement to revise its interpretation of 'municipal waste' to include much more commercial and industrial waste than previously; it should be noted that this report, as with all previous ones, reflects local authority collected municipal waste only.

Material Recovery Facilities

MRFs usually have more than one input source and the pro-rata assignment to each source based on their input tonnages can lead to a small over or under estimation of the actual tonnage being recovered from each individual source.

Capture Rates

Capture rates are no longer included in the body of the report but are still available in the data tables appendix. The calculations for capture rates are based on a Compositional Study undertaken in 2017 and may not accurately reflect the current situation. However, it is the best available estimation of the proportions of the primary waste categories contained within kerbside residual waste. Levels of uncertainty around the results of the Compositional Study are discussed in the full report.

The accuracy of these estimates is expected to decrease over time as household recycling habits continue to change.

Waste Crime

Waste crime is the unauthorised management of waste, including illegal dumping. It can be difficult to quantify the impact of such activity upon these official figures as it is not always possible to determine the source, date and tonnage of illegally deposited waste. Where possible the extent and any implications of such activity will be communicated to users.

Energy Recovery via Anaerobic Digestion

The tonnages relating to energy recovery from material undergoing anaerobic digestion are still accounted for under the recycling section since the vast majority of the tonnage of waste undergoing this process eventually ends up as a compost (once the methane generated from the anaerobic digestion process has been collected).

Rounding and Summing

It should be noted that in some instances totals may not add up due to rounding. If tonnages work out to be less than 0.5 tonnes, they will be rounded to zero.

On occasion percentages work out to be less than 0.1 per cent or more than 99.9 per cent. Users should be aware that in such cases, the percentage is rounded to zero or 100 per cent respectively.

Whilst tonnages may be summed over councils and/or Waste Management Groups to give totals for higher level geographies, such totals may suffer from rounding errors when compared with any given totals.

However where fractions or proportions, such as recycling rates, waste arisings per capita etc are stated for councils or waste management groups, these indicators cannot be simply added or averaged to produce a rate for a higher level geography. Such information is often available in the data tables appendix, or otherwise may be available upon request.

Data for Northern Ireland and Waste Management Groups are only added to charts with rates and percentages to avoid distorting the scale of the charts.

Notation and Terminology

Please see the glossary (appendix 2) for clarification of key terms.

Guidance on using data

All figures in the report and the accompanying Excel tables are annual figures and refer to the stated period. These annual figures are the final, validated figures for the year and supersede those figures published in the quarterly reports for the period. Please note that any comparisons with prior year use the final validated figures as published in the annual report for that period. Very small increases or decreases in figures (<0.5 per cent or <0.5 percentage points) are not highlighted in the commentary and should be interpreted with care.

Waste Management information elsewhere in the United Kingdom and Europe

While it is our intention to direct users to waste management information elsewhere in the UK and Europe, users should be aware that local authority collected municipal waste statistics in other administrations are not always measured in a comparable manner to those in Northern Ireland. Details of waste management data published elsewhere in the UK and Europe can be found at the following links.

England

<https://www.gov.uk/government/collection/s/waste-and-recycling-statistics>

Scotland

<http://www.sepa.org.uk/environment/waste/waste-data/waste-data-reporting/>

Wales

<https://gov.wales/local-authority-municipal-waste-management>

Ireland

<http://www.epa.ie/waste/municipal/>

European Union Member States

http://ec.europa.eu/eurostat/statistics-explained/index.php/Municipal_waste_statistics

The basis of the data collection across the UK using WDF is broadly consistent, however there are some minor definitional differences such as Northern Ireland recycling KPIs do include material used as 'backfill' (using suitable waste material to refill an excavation instead of non-waste material) which is not directly comparable with the revised Waste Framework Directive recycling measurements.

The meetings of the WasteDataFlow Operational Group ensure a conscious effort to share waste management developments on a UK-wide basis with Northern Ireland representation on this group.

A National Statistics Publication

National Statistics are produced to a high professional standard. They undergo regular quality assurance reviews to ensure that they meet customer needs. They are produced free from any political interference.

The UK Statistics Authority has designated these statistics as National Statistics, in accordance with the Statistics and Registration Service Act 2007 and signifying compliance with the Code of Practice for Official Statistics. Designation can be broadly interpreted to mean that the statistics:

- meet identified user needs;
- are well explained and readily accessible;
- are produced according to sound methods; and

- are managed impartially and objectively in the public interest.

Once statistics have been designated as National Statistics it is a statutory requirement that the Code of Practice shall continue to be observed.

The Department demonstrates its commitment to the Code of Practice by publishing a series of supporting statements related to its use of administrative data, publication strategy, confidentiality arrangements, revisions policy, customer service and complaints procedure. For details see the statistics charter on the DAERA statistics website <https://www.daera-ni.gov.uk/publications/daeras-statistics-charter>

For further information

For more information relating to this publication, including additional analysis, breakdowns of the data or alternative formats please contact Statistics and Analytical Services Branch.

As we want to engage with users of our statistics, we invite you to feedback your comments on this publication at any time of the year. Contact details are available on the front cover of this report and in the data tables appendix.

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Appendix 2: Glossary

Term	
Biodegradable waste	Any waste that is capable of undergoing anaerobic decomposition, such as food and garden waste, and paper and paperboard.
Bring site	An unmanned site with a container or a collection of containers for depositing recyclable waste.
Capture rate for household kerbside collected waste	The amount of 'available' material that is actually being collected for recycling through household kerbside collection schemes.
Civic amenity site	A manned site for depositing waste.
Composting	An aerobic, biological process in which organic wastes, such as garden and kitchen waste, are converted into a stable granular material which can be applied to land to improve soil structure and enrich the nutrient content of the soil.
Composting rate	The percentage of waste sent for composting. It excludes waste collected for composting that was rejected at collection or at the gate of the reprocessor.
Dry recycling	The recycling of dry materials such as paper, card, cans, plastic bottles, mixed plastic, glass.
Dry recycling rate	The percentage of waste sent for recycling. It excludes waste collected for recycling that was rejected at collection, during sorting or at the gate of the recycling reprocessor. It includes residual waste which was diverted for recycling but excludes waste sent for preparation for reuse.
Energy recovery rate	The percentage of waste sent for energy recovery. It includes mixed residual and specific sources components.
Household waste	Includes materials (except soil, rubble and plasterboard) collected directly from households (e.g. kerbside collections) or indirectly (e.g. bring sites, civic amenity sites, collected by private and voluntary organisations not included elsewhere or street sweepings).
Kerbside	A regular collection of waste from premises.
Key Performance Indicators (KPIs)	A set of measures used to gauge performance in terms of meeting waste strategy targets.
LAC	Local Authority Collected, as in Waste.
Landfill sites	Any areas of land in which waste is deposited. Landfill sites are often located in disused mines or quarries. In areas where they are limited or no ready-made voids exist, the practice of landraising is sometimes carried out, where waste is deposited above ground and the landscape is contoured.
Local authority collected municipal waste	Waste which is collected under arrangements made by a district council.

Term	
Mixed dry recyclables	Waste streams intended for recycling found together with each other but separately from other waste.
Mixed residual waste sent for energy recovery	Combustible residual waste collected from the kerbside and civic amenity sites and processed into refuse derived fuel at material recovery facilities.
NILAS	Northern Ireland Landfill Allowance Scheme
Non household waste	Asbestos, beach cleansing, fly-tipped materials, gully emptyings, commercial and industrial, construction and demolition, grounds waste, highways waste, other collected waste and other.
Other household waste	Healthcare waste, bulky waste, street cleaning and other household.
Recycling	Any recovery operation by which waste materials are reprocessed into products, materials or substances whether for the original or other purposes. It does not include energy recovery and the reprocessing into materials that are used as fuels.
Refuse Derived Fuel (RDF)	Consists largely of organic components of municipal waste (such as plastics and biodegradable waste). This can then be used in a variety of ways to generate electricity, most commonly as an additional fuel used with coal in power stations or in cement kilns.
Regular residual household waste	Household regular kerbside collection.
Residual waste	Waste that is not sent for preparing for reuse, sent for recycling or composting.
Specific streams e.g. wood	Used in the context of Waste sent for energy recovery. It is mostly wood but also contains furniture, carpets and mattresses, mostly collected from civic amenity sites.
Waste arisings	The amount of waste collected in a given locality over a period of time.
Waste collected for disposal to landfill	Collected for disposal is residual waste that has not been sorted to separate out recyclable material from other waste before being presented to the Council for collection at various locations.
Waste from households	Not the same as 'household waste'. This is a narrower definition and includes material (except soil, rubble and plasterboard) collected only from households (e.g. kerbside collection, bring sites, civic amenity sites or community skips managed by councils).

Term	
Waste sent to landfill	The amount of waste sent to landfill. Excludes residual waste which was diverted for energy recovery, recycling or composting. Includes household waste collected for energy recovery, recycling or composting which was diverted to landfill.
Waste Transfer Note (WTN)	A note which must be created for any transfer of controlled waste. The exception to this is householders, who are not required to produce transfer notes.
WasteDataFlow	The web based system for local authority collected municipal waste data reporting by UK local authorities to government (www.wastedataflow.org).
Recycled material types	
Compostable (excluding wood)	Green waste only, green garden waste only, mixed garden and food waste, waste food only, other compostable waste (excluding wood).
Construction, Demolition and Excavation	Plasterboard, rubble and soil.
Electrical Goods	Large and small domestic appliances, TVs and monitors, fluorescent tubes and other light bulbs, fridges and freezers, auto batteries and post consumer batteries.
Glass	Brown, clear, green and mixed glass.
Metal	Aluminium, mixed and steel cans, aluminium foil, bicycles, aerosols, gas bottles, fire extinguishers and other scrap metal.
Paper and Card	Books, card, mixed paper and card, paper, yellow pages and cardboard beverage packaging.
Plastics	PET(1), HDPE(2), PVC(3), LDPE(4), PP(5), PS(6), other plastics(7), mixed plastic bottles, and plastics.
Textiles	Textiles and footwear, footwear only, textiles only and carpets.
Unclassified	Derived category including all other recycled material collected not included in the main categories.
WEEE (Waste Electrical and Electronic Equipment)	As electrical goods above but excluding auto batteries and post consumer batteries.
Wood	Wood, chipboard and MDF, composite wood materials and wood for composting.

Appendix 3: List of Acronyms

This is a list of commonly used acronyms in this report.

arc21	Regional waste management group in Northern Ireland
BLACMW	Biodegradable Local Authority Collected Municipal Waste
CIWM	Chartered Institution of Wastes Management
DAERA	Department of Agriculture, Environment and Rural Affairs
EC	European Commission
EU	European Union
KPI	Key Performance Indicator
LAC	Local Authority Collected
LACMW	Local Authority Collected Municipal Waste
LPS	Land and Property Services
MDR	Mixed Dry Recyclables
MRF	Materials Recovery Facility
NI	Northern Ireland
NIEA	Northern Ireland Environment Agency
NILAS	Northern Ireland Landfill Allowance Scheme
NISRA	Northern Ireland Statistics and Research Agency
NWRWMG	North West Regional Waste Management Group
RDF	Refuse Derived Fuel
SASB	Statistics and Analytical Services Branch, DAERA
UK	United Kingdom
WDF	WasteDataFlow
WEEE	Waste Electrical and Electronic Equipment
WRAP	Waste and Resource Action Programme

Appendix 4: National Statistics Status

National Statistics status means that our statistics meet the highest standards of trustworthiness, quality and public value, and it is our responsibility to maintain compliance with these standards.

These statistics were first designated as National Statistics, and underwent a full [assessment](#) against the Code of Practice, in January 2014 by the UK Statistics Authority.

A compliance check [assessment](#) was completed for the waste statistics produced by each of the UK regions in 2020 with the results of the finding published in October 2020.

The trustworthiness, quality and value of the statistics, including the coherence of the data source, methods and quality assurance (QA) arrangements, and the presentation of the statistics were reviewed with a final outcome that the statistics can continue to be designated as National Statistics.

The conclusion of the compliance check cited the following actions as strengths:

- Ongoing quality assurance of the data contained within the report by reviewing methods on a quarterly basis.
- Improved statistical output by creating a [time series](#) of Northern Ireland local authority collected municipal waste management statistics to accompany the report and tables. This [dataset](#) is also available on Open Data NI along with a [time series](#) of materials collected at Northern Ireland local authority waste management sites.
- Improved statistical output by creating [infographics](#) to accompany the report and tables.
- Improved statistical output by creating an [interactive dashboard](#) to accompany the report and tables.
- Hosted a workshop with users in February 2020 to review publications and statistical outputs.
- Sought and implemented recommendations from GSS good practice team to improve the publication.

Some areas for minor improvement were also suggested and these will be addressed as we continually improve the statistical output.

One suggestion was to liaise with the other UK regions to produce a guide on how waste is defined as recycled and explain the main definitional differences in recycling rates between countries. The recycling explainer is now available at the following link:

[Recycling Explainer](#)

Policy, Economics and Statistics Division
Department of Agriculture, Environment and Rural Affairs
Dundonald House
Upper Newtownards Road
Ballymiscaw
BELFAST
BT4 3SB



Department of
**Agriculture, Environment
and Rural Affairs**
www.daera-ni.gov.uk



**INVESTORS
IN PEOPLE**

ITEM 3
ARC21 JOINT COMMITTEE
Virtual Meeting No 74
MINUTES
Thursday 27 October 2022

Members Present:

Councillor A Bennington
 Alderman R Gibson
 Councillor R McMullan
 Alderman D Drysdale (*Chair*)
 Councillor S Lee
 Councillor R Burgess
 Councillor K Owen

Antrim & Newtownabbey Borough Council
 Ards & North Down Borough Council
 Belfast City Council
 Lisburn & Castlereagh City Council
 Lisburn & Castlereagh City Council
 Newry, Mourne & Down District Council
 Newry, Mourne & Down District Council

Members' Apologies:

Councillor M Goodman (*Deputy Chair*)
 Councillor R Kinnear
 Alderman A Carson
 Alderman A McDowell
 Councillor F Ferguson
 Councillor JJ Magee
 Councillor M Gregg
 Councillor D Reid
 Councillor I Friary
 Alderman R Cherry
 Councillor J Brennan

Antrim & Newtownabbey Borough Council
 Antrim & Newtownabbey Borough Council
 Ards & North Down Borough Council
 Ards & North Down Borough Council
 Belfast City Council
 Belfast City Council
 Lisburn & Castlereagh City Council
 Mid & East Antrim Borough Council
 Mid & East Antrim Borough Council
 Mid & East Antrim Borough Council
 Newry, Mourne & Down District Council

Officers Present:

T Walker
 H Campbell
 J Green
 K Boal
 B McKeown
 L Daly
 D Lindsay
 N Martin
 C Matthews
 B Murray
 J McConnell
 H Moore
 P Thompson
 D Carey

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 Antrim & Newtownabbey Borough Council
 Ards & North Down Borough Council
 Ards & North Down Borough Council
 Belfast City Council
 Belfast City Council
 Belfast City Council
 Lisburn & Castlereagh Borough Council
 Mid & East Antrim Borough Council
 Mid & East Antrim Borough Council

Officers' Apologies:

G Craig

arc21

The Chair welcomed Councillor McMullan, from Belfast City Council to his first meeting.

He also offered his congratulations to Councillor Owen on achieving her PHD.

Item 1 - Conflicts of Interest Statement

The Chair read out the Conflicts of Interest Statement.

Action: Noted

Item 2 - Apologies

Apologies were noted.

Action: Noted

Item 3 - Minutes of Joint Committee Meeting 073 held on 29 September 2022

Following discussion, the Joint Committee approved the minutes of the Joint Committee meeting 073 held on 29 September 2022.

Action: Agreed

Item 4 - Matters Arising

Persistent Organic Pollutants (POPs) – Mr Walker advised that he had issued a letter to the Chair of the Strategic Waste Partnership drawing his attention to POPs and highlighting that there was no guidance in NI. He noted that, following recent discussions, it was likely that the Environment Agency in England would delay enforcing the legislation for around a year.

The Chair advised that he had spoken to RiverRidge and ReGen which were both aware that this was an emerging issue and they were considering how to address any new requirements.

Mr Walker commented that, following last month's Committee meeting, he had directly contacted the cement kiln operators which were likewise aware of POPs. At this stage, their response was mixed (for example, handling furniture risks creating dust and DAERA have specifically advised that this must be minimized which is likely to increase costs). He advised that from the Kiln operators perspective, this could require considerable work and Guidance was critical in determining what was expected and how they would respond.

Action: Noted

Item 5 - Contracts & Operations Briefing ReportService Status

Ms Boal advised that all services had been operational during the month of September and none of the contractors had needed to rely upon any of their contingency measures.

Performance - September 2022

In terms of garden waste, she reported that tonnages start to decrease at this time of the year and subsequently the amount being treated will reduce.

She noted that turnaround times had been reviewed and, in all cases the contractors had provided adequate reasons for these, and therefore service credits were not applied this month.

She advised that there was a number of overweight vehicles in September and arc21 is investigating the differences between the weighbridge in/out-weights to determine if there was any misalignment.

All delivery points were available but issues on reporting in the haulage contract in relation to information transfer were experienced. It is anticipated that this is something that will self-rectify when the sites return to pre-Covid protocols and which will mean that the data is directly handed [in transfer notes] between contractors and arc21, and onward to councils.

In terms of the service contracts for the bottle bank site in LCCC, Ms Boal noted that it did not have the specified 20% capacity available, the contractors were notified and the site was serviced accordingly.

Health & Safety

Ms Boal reported that during September there were four H&S incidences reported to arc21 by contractors; the specific incidents were detailed in the report. Three related to the landfill and one to the organics. Council officers were requested to check with their operational managers that all drivers are trained on how to safely operate their vehicles. Officers were also asked to liaise with their H&S officers and operational managers, including those of external contractors, to check that drivers are appropriately trained and understand their obligations to abide by site rules which includes wearing the required PPE.

Rejected Loads

She noted that three loads delivered to the Organics delivery sites in September 2022 were rejected and two loads delivered to Bryson had been rejected.

Officers were requested to continue to review their protocols to ensure that systems are in place so that vehicles are fully emptied before collecting another material stream as this seemed to be the root cause of the issue.

arc21 Contract Tonnages

Ms Boal presented the contract tonnages for September 2022 and noted that they were generally trending down and that LCCC had experienced industrial action and therefore, their tonnages would have been lower which will have an impact on the overall tonnages.

In terms of the 60,000 capacity secured at Cottonmount landfill site, she reported that 6,683 tonnes were used in September 2022, the total used in February to September 2022 was 48,666 tonnes, meaning a monthly average of 6,083 tonnes.

Supplies

A summary of the supplies contracts orders for September were provided and she noted that, following some recent emails, the orders seemed to be increasing again.

Following discussion the Joint Committee noted the report.

Action: Noted

Item 6 - Waste Tonnage Trends

Ms Boal presented an overview of the tonnages processed through the arc21 contracts over the last three years and an analysis of the current performance, using information from Waste Data Flow (unvalidated), against future landfill and recycling targets for information.

The Joint Committee noted the report.

Action: Noted

IN COMMITTEE

The Chair recommended that the meeting would now move "*in committee*" which was agreed.

Matters of a confidential and commercially sensitive nature were discussed under these agenda items.

Following discussion on the commercially sensitive matters, the Chair recommended that the meeting would now return to the main agenda, which was approved, but whilst "*in committee*" during this section of the meeting, there were seven matters discussed.

Item 7	Minutes of Joint Committee Meeting 073 held on 29 September 2022 '<i>in committee</i>' - <i>agreed</i>
Item 8	Matters Arising - <i>noted</i>
Item 9	Residual Waste Treatment Project - <i>noted</i>
Item 10	Commercially Sensitive Contract and Procurement Issues - <i>agreed</i>
Item 11	Report the Provision of Services for the Receipt, Storage and Transfer of Municipal Waste - <i>agreed</i>
Item 12	Revenue Estimates - <i>deferred</i>
Item 13	Cost of Living Payments - <i>deferred</i>

OUT OF COMMITTEE

Item 14 - Annual Report for the Year to March 2022

Mr Walker presented the Joint Committee with the arc21 Annual Report for the year to March 2022 reflecting the progress made in delivery of the Corporate Plan 2020-2024.

The Joint Committee noted the report.

Action: Noted

Item 15 - Closure Report NI Waste Strategy - Published June 2022

Ms Boal provided the Joint Committee with an overview of the key aspects highlighted in the closure report for the 2013 NI Waste Strategy for information.

The Joint Committee noted the report.

Action: Noted

Item 16 - Digital Waste Tracking - Update

Ms Boal advised that arc21 had responded to the consultation in relation to the digital waste tracking from a local authority perspective, highlighting that having full visibility of where the waste ends up through some form of digital platform, would be better than current arrangements.

She noted that the Environment Agency are continuing to work on the prototype of the systems to be used to capture the information and testing in the first instance on the green list items. This will be amalgamated into one data model which will be refined and they plan to share this in due course.

She also noted that the Agency have stated that they expect to publish responses to the consultation in the Autumn.

Following discussion the Joint Committee noted the report.

Action: Noted

Item 17 - Education & Awareness

Ms Boal provided an update on the education service and noted that the vehicle had now been sold and that the Waste Promotions Officer had been successful in returning to provide services to councils. In September, he had visited 33 classes, one ladies group, had covered two council events, and will start gathering customer feedback. The intention will be to bring a report to the Committee in due course.

Following discussion the Joint Committee noted the report.

Action: Noted

Item 18 - Financial Report for the year to March 2022

Mr Walker presented a report with a summary of the financial results for the year to March 2022.

He advised that the accounts had been certified by the Local Government Auditor without qualification and the final certified Statements of Accounts had now been published onto the arc21 website, prior to the statutory deadline of 30 September 2022.

He noted that the draft "*Report for those Charged with Governance*" had been presented to the Audit Committee in September and there were only two minor issues raised by the Auditor regarding the completion of the Declarations of Interest by Members and the low attendance at the Audit Committee meetings.

In terms of the first issue, he advised that this had been previously raised by Mr Craig a number of times, and also by the NIAO in previous years. The the Auditor had stressed the importance that these are completed under the NI Local Government Code of Conduct and those whose submissions remain outstanding will be followed up with the relevant Members.

Action: Mr Walker

In terms of the second issue regarding recent low attendance at the Audit Committee meetings, he advised that there is a risk that the Audit Committee will not be able to perform its duties if an adequate challenge function is not present and an appropriate level of engagement is not achieved. Mr Walker advised that he intended to issue an invitation to Members to join the Audit Committee and then, if necessary, would follow this up with individual Members.

Action: Mr Walker

Councillor Bennington recorded her thanks to Mr McKeown for getting the accounts finalised and on time ready for the Audit Office, and for Mr Walker's support with this.

Alderman Drysdale also noted his thanks to Mr McKeown and across the organisation to all the team for their commitment and work over the past very difficult years.

The Joint Committee noted the report.

Action: Noted

Item 19 - Audit Committee Meeting 26 September 2022 Report

Mr Walker provided the Joint Committee with the minutes of the most recent meeting held on 26 September 2022 with an update provided on the various tasks and actions being progressed.

The Joint Committee noted the report.

Action: Noted

Item 20 - Meeting Schedule 2023

Ms Campbell presented the proposed schedule of meetings to be held in 2023 as follows:

- Thursday 26 January;
- Thursday 23 February;
- Thursday 30 March;
- Thursday 27 April;
- Thursday 25 May;
- Thursday 29 June;
- Thursday 31 August;
- Thursday 28 September;
- Thursday 26 October; and
- Tuesday 5 December

Following discussion, the Joint Committee agreed to approve the schedule of meetings to be held virtually for the foreseeable future, legislation dependent, and agreed that Members Services of the participant councils be notified to help avoid meetings being scheduled in the constituent councils during these dates and times.

Action: Agreed

Item 16 - Next Meeting Tuesday 6 December 2022

The Chair thanked everyone for attending and advised that the next Joint Committee meeting would be held virtually as scheduled on Tuesday 6 December 2022 commencing at 10.30am.

Action: Noted

Date: _____

Chairman: _____