



# Northern Ireland Local Authority Collected Municipal Waste Management Statistics

Quarterly provisional estimates for April to June 2023



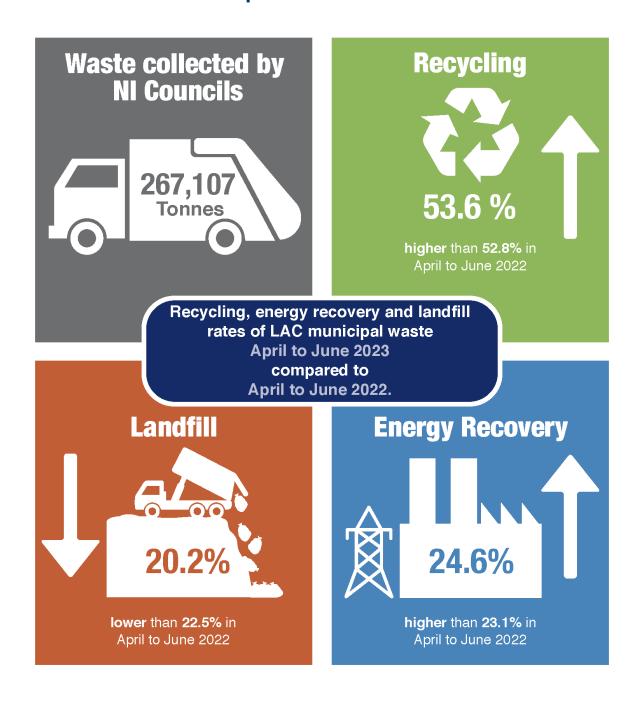


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# Northern Ireland waste management statistics – April to June 2023



# **Key Points**

- Northern Ireland's councils collected 267,107 tonnes of waste during April to June 2023, higher than the 263,355 tonnes collected during April to June 2022.
- During April to June 2023, 53.6 per cent of waste collected by councils was sent for recycling, higher than the 52.8 per cent recorded during April to June 2022.
- The landfill rate for waste collected by councils was 20.2 per cent in April to June 2023, a fall from both 72.5 per cent in April to June 2006 and 22.5 per cent recorded during April to June 2022.
- A quarter (24.6 per cent) of waste arisings were sent for energy recovery in April to June 2023 which was higher than the 23.1 per cent reported in April to June 2022. In the longer term, energy recovery rates have increased from 0.1 per cent recorded during April to June 2010.
- Household waste accounted for 87.6 per cent of all Local Authority collected (LAC) waste during this period.
- The recycling rate for household waste was 53.8 per cent in April to June 2023, the same as the rate recorded in April to June 2022. The landfill rate for household waste was 19.8 per cent, which was lower than the rate of 21.8 per cent recorded in April to June 2022.

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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 <a href="Appendix 2 - Glossary">Appendix 2 - Glossary</a> of the latest Annual Report.

#### **Purpose**

This is a quarterly publication which reports provisional statistics 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 and UK Government 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.

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 <u>Appendix 1</u>

<u>Main Uses of Data</u> of the Annual Report.

#### **Next Updates**

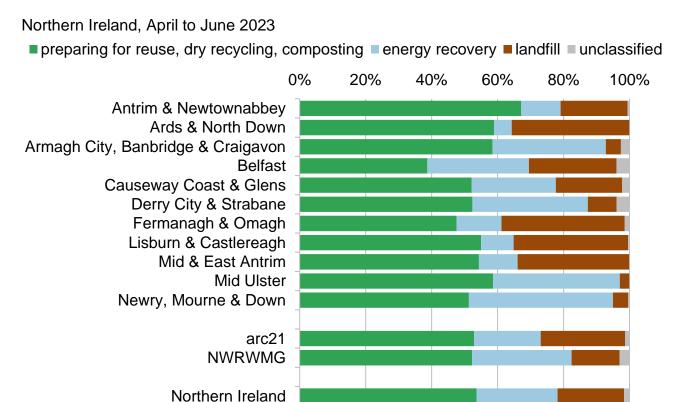
- Provisional statistics for July to September 2023 are scheduled for publication in January 2023.
- Finalised data for 2022/23 are scheduled to be published in November 2023 and will supersede previously published data from the four quarterly returns for that financial year.
- The scheduled dates for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

#### **Overview**

This report presents information on the quantities of Local Authority Collected (LAC) municipal waste managed in Northern Ireland between April and June 2023. The report is split into four sections, each of which cover local authority collected municipal waste and, where appropriate, household waste:

- waste arisings (pages 2-3),
- recycling (pages 4-5),
- energy recovery (pages 6-7),
- landfill (pages 8-10).

Figure 1: Waste preparing for reuse, dry recycling, composting, energy recovery and landfill rates by council and waste management group



At the Northern Ireland level, 53.6 per cent of waste collected by councils was sent for preparing for reuse, dry recycling and composting between April to June 2023. Energy recovery accounted for 24.6 per cent and 20.2 per cent was landfilled. The remaining 1.6 per cent unaccounted for 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 higher than that reported in April to June 2022 (52.8 per cent). The landfill rate decreased by 2.3 percentage points whilst the energy recovery rate increased by 1.5 percentage points from April to June 2022. Household waste accounted for 87.6 per cent of total waste collected by councils. 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.

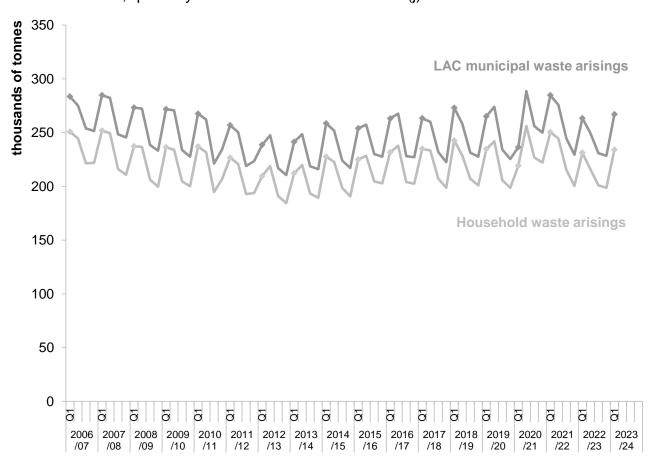
# Waste arisings

Northern Ireland's councils collected 267,107 tonnes of waste between April and June 2023. This was higher than the 263,355 tonnes collected during April to June 2022. Factors affecting LAC municipal 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 weather conditions during the specific quarter.

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

Since 2006/07 household waste has accounted for 86-90 per cent of total waste collected by councils each quarter, apart from April to June 2020 when Covid-19 restrictions resulted in a larger than normal proportion of household waste being collected. During April to June 2023 household waste accounted for 87.6 per cent. The remaining 12.4 per cent was non-household waste such as rubble/soil and commercial/industrial waste.

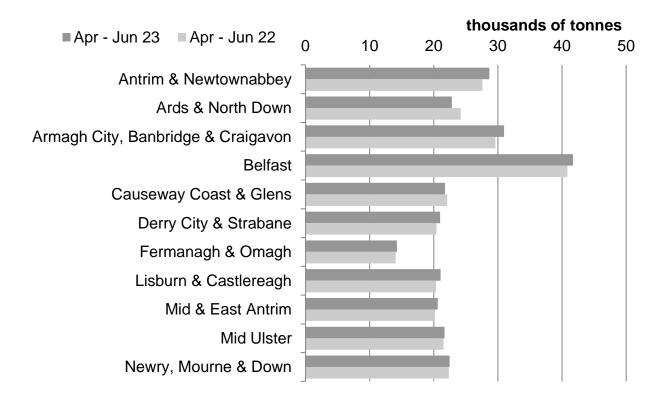
Figure 2: Waste arisings
Northern Ireland, quarterly from 2006/07 to 2023/24 KPI (j)



The longer term trend for April to June saw a gradual reduction in LAC municipal waste arisings of 16.2 per cent across five years, from 284,813 tonnes between April to June 2007 to a low of 238,613 tonnes between the same three months of 2012. From April to June 2012 until a peak of 284,776 tonnes in April to June 2021 arisings showed a generally increasing trend. From the peak arisings recorded in 21/22, arisings fell to 263,355 tonnes and 267,107 tonnes in 2022/23 and 2023/24 respectively.

Figure 3: Waste arisings by council

Northern Ireland, April to June 2022 and April to June 2023, KPI (j)



The proportion of waste collected by each council broadly reflects the population within the councils. Belfast collected the most waste at 41,741 tonnes, whilst Fermanagh and Omagh collected the least at 14.251 tonnes.

Nine councils reported an increase in total arisings in April to June 2023 compared to the same period in 2022 with two councils reporting a decrease in total arisings<sup>1</sup>. Armagh City, Banbridge & Craigavon reported the largest increase in total arisings in April to June 2023 compared to the same period in 2022, rising by 4.6 per cent. Waste collected at civic amenity sites was the largest contributory factor for this increase.

Ards & North Down reported the largest decrease compared to April to June 2022, decreasing by 5.7 per cent.

The total quantity of waste collected at kerbside was similar compared to April to June 2022, while waste collected at civic amenity sites increased by 7.4 per cent.

These statistics can be found in Table 1 of the accompanying data tables spreadsheet and in the <u>time series dataset</u>.

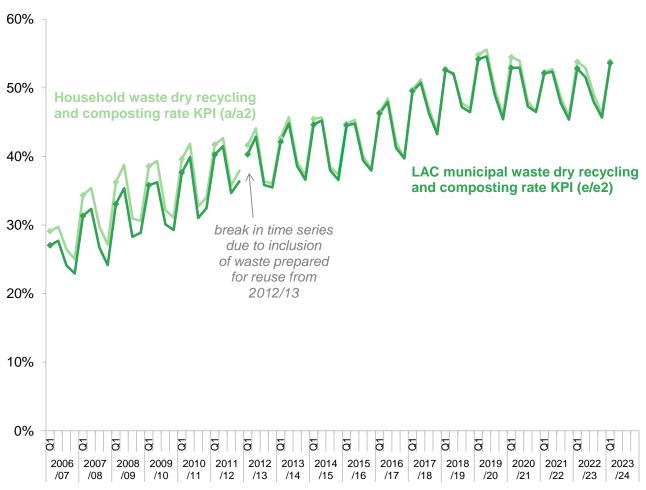
<sup>&</sup>lt;sup>1</sup> Very small increases or decreases in figures (<0.5 per cent or <0.5 percentage points) are not highlighted in the commentary.

# Recycling

This section of the report looks at local authority collected (LAC) municipal waste and household waste recycling rates, both of which include waste sent for preparing for reuse, dry recycling and composting.

There were 143,151 tonnes of LAC municipal waste sent for preparing for reuse, dry recycling and composting (referred to as 'recycling' for the rest of this section) during April to June 2023. The waste recycling rate was 53.6 per cent, higher than the 52.8 per cent of waste sent for recycling during April to June 2022.

Figure 4: Waste sent for preparing for reuse, dry recycling and composting Northern Ireland, quarterly from 2006/07 to 2023/24, KPIs (a), (a2), (e) and (e2)



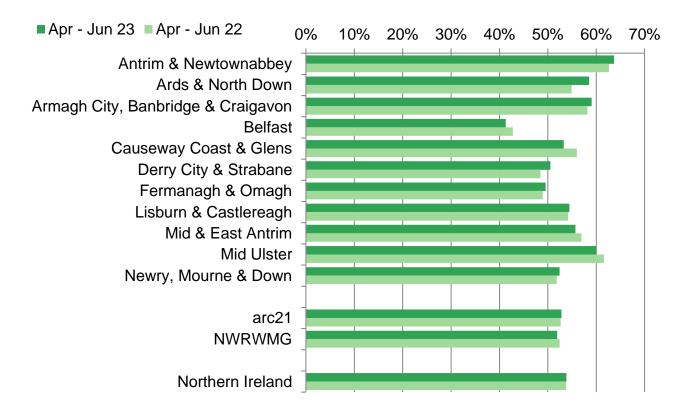
These statistics show seasonal variation which is driven by the quantities of garden waste sent for composting. Greater quantities of garden waste are collected and sent for composting during the spring and summer quarters, April to June and July to September.

The longer term trend for Local Authority Collected municipal waste recycling has been a steady increase from 27.0 per cent in April to June 2006 to 54.2 per cent in April to June 2019. The Local Authority Collected municipal waste recycling rate has since fallen to 53.6 per cent in the latest quarter. Waste sent for preparing for reuse (729 tonnes this quarter) has been included since 2012/13 and adds 0.3 percentage points to the overall LAC recycling rate in April to June 2023.

The recycling rate for household waste only was 53.8 per cent during April to June 2023, the same rate recorded during April to June 2022. The proportion of household waste sent for dry recycling made up 21.6 per cent, composting 31.9 per cent and preparing for reuse 0.3 per cent.

Figure 5: Household waste preparing for reuse, dry recycling and composting rate by council and waste management group

Northern Ireland, April to June 2022 and April to June 2023, KPI (a2)



Ards & North Down reported the largest increase in their household recycling rate compared to April to June 2022 at 3.6 percentage points, with an increase in waste sent for composting the largest contributory factor in this rise. Five other councils showed an increase in their household recycling rate. The household recycling rates decreased in Belfast, Causeway Coast & Glens, Mid & East Antrim and Mid Ulster council areas.

Waste sent for recycling is included in a number of key performance indicators, KPI (a), (a2), (e), and (e2). These indicators are used to monitor performance under the Local Government (Performance Indicators and Standards) Order (Northern Ireland) 2015. The household waste annual recycling rate was a population indicator for <a href="Programme for Government">Programme for Government (PfG)</a> 2016-2021 and is being proposed as an indicator for the next PfG.

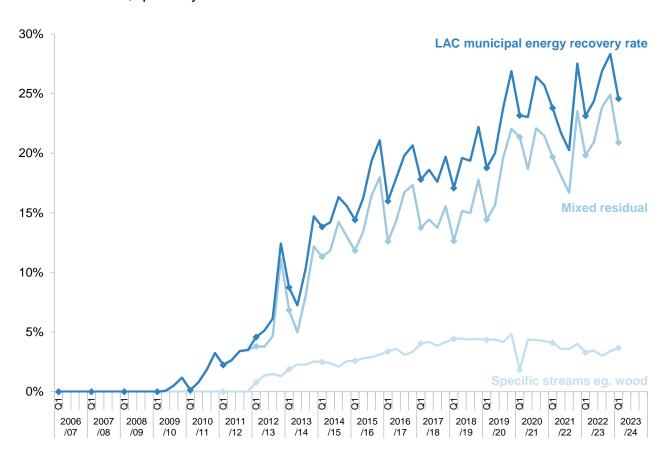
These statistics can be found in Tables 4 and 12 of the accompanying data tables spreadsheet and in the <u>time series dataset</u>.

### **Energy recovery**

This quarterly report includes statistics on energy recovery, which is the term used when value is gained from waste products by converting them into energy. All energy recovery statistics 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 this section and is explained further in <a href="Appendix 1 - Limitations">Appendix 1 - Limitations</a> of Data of the latest Annual Report.

From April to June 2023, 65,643 tonnes of waste arisings were sent for energy recovery. This produced a waste energy recovery rate of 24.6 per cent, the highest April to June quarterly energy recovery rate ever recorded for Northern Ireland. The majority of energy recovery comes from mixed residual waste, with a smaller proportion from specific streams, e.g. wood.

Figure 6: Waste sent for energy recovery via incineration Northern Ireland, quarterly from 2006/07 to 2023/24

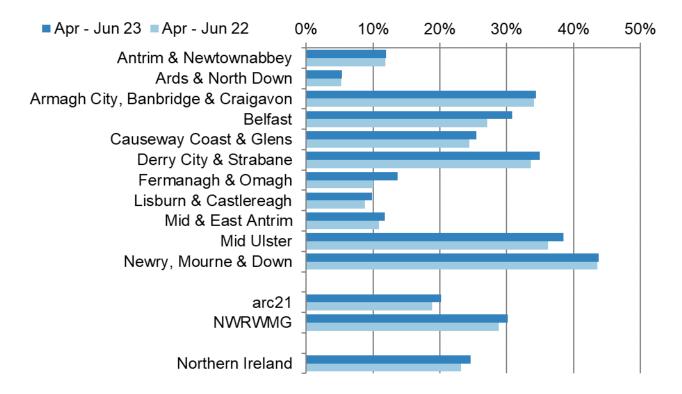


There was zero, or very small quantities, of waste sent for energy recovery before 2009/10. Strong growth began during 2010/11 with the energy recovery rate increasing from 0.1 per cent during April to June 2010 to the 24.6 per cent for the same three months of 2023. Most of the growth since 2009/10 has been driven by mixed residual waste sent for energy recovery (from 0.1 per cent during April to June 2010 to 20.9 per cent in April to June 2023). The specific stream proportion was 3.7 per cent in April to June 2023.

Mixed residual waste sent for energy recovery is combustible residual waste collected from the kerbside and from civic amenity sites which is 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 7: Waste energy recovery rate by council and waste management group Northern Ireland, April to June 2022 and April to June 2023



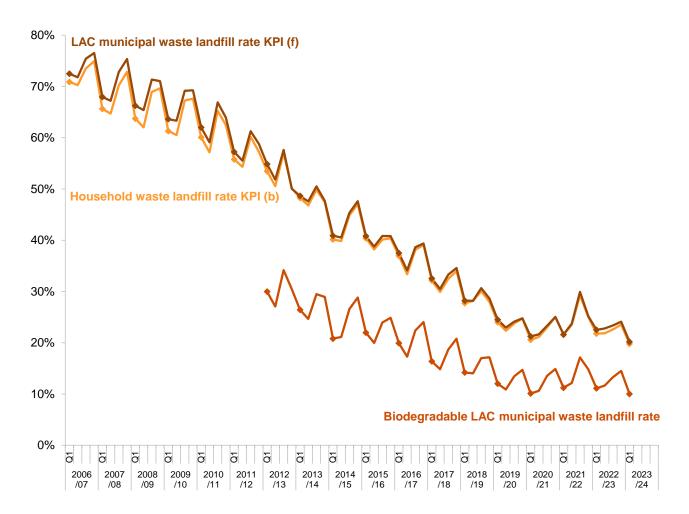
The highest waste energy recovery rate was recorded in Newry, Mourne & Down at 43.7 per cent, whilst the lowest was recorded in Ards & North Down at 5.3 per cent. Seven councils recorded an increase in the waste energy recovery rate in April to June 2023 compared to the same quarter in 2022 with the largest increase of 3.8 percentage points recorded in Belfast. Fermanagh & Omagh and Mid Ulster reported increases of 3.6 and 2.3 percentage points respectively. Four councils reported similar energy recovery rates in April to June 2023 compared to the same quarter in 2022.

These statistics can be found in Tables 3 and 4 of the accompanying data tables spreadsheet and in the <u>time series dataset</u>.

#### Landfill

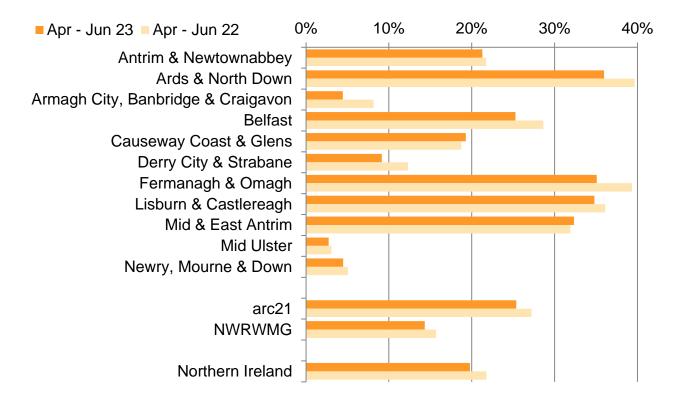
The quantity of LAC municipal waste sent to landfill decreased by 9.0 per cent, from 59,291 tonnes during April to June 2022 to 53,949 tonnes during April to June 2023. The quarterly landfill rate for April to June 2023 is 20.2 per cent, the lowest rate ever recorded for April to June. The latest quarterly landfill rate for household waste only is 19.8 per cent.

Figure 8: Waste sent to landfill Northern Ireland, quarterly from 2006/07 to 2023/24, KPIs (b) and (f)



The longer term trend has seen the April to June household waste landfill rate fall from 70.9 per cent in 2006 to a low of 19.8 per cent in 2023. Note that the landfill rate exhibits seasonality and the April to June and July to September quarters tend to have lower rates than October to December and January to March. The seasonality stems from the higher level of compostable garden waste arising during spring and summer.

Figure 9: Household waste landfilled by council and waste management group Northern Ireland, April to June 2022 and April to June 2023, KPI (b)



The highest household waste landfill rate was recorded in Ards & North Down at 36.0 per cent, whilst the lowest was recorded in Mid Ulster at 2.7 per cent. The household waste landfill rate decreased in seven district councils in April to June 2023 compared to the same three months in 2022, with the largest decrease recorded in Fermanagh & Omagh at 4.2 percentage points. Similar percentage point decreases in the landfill rate were recorded in Ards & North Down, Armagh City, Banbridge & Craigavon, Belfast and Derry City & Strabane. Causeway Coast and Glens reported an increase in household waste landfill rates while the remaining three councils reported similar household waste landfill rates compared to April to June 2022.

The statutory requirement for all councils in Northern Ireland to provide households with a container for food to enable its separate collection has contributed to a long-term drop in landfill rates, though increasing energy recovery rates for some councils have also contributed.

#### 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 26,769 tonnes of biodegradable waste to landfill during April to June 2023, which was 49.6 per cent of all waste sent to landfill. During the same

quarter last year, 29,271 tonnes of biodegradable waste was sent to landfill which was 49.4 per cent of all waste sent to landfill.

Figure 10 displays the tonnages of LAC biodegradable and non-biodegradable waste sent to landfill by each council, comparing them with other councils and to the same quarter last year.

Figure 10: Biodegradable and non-biodegradable waste to landfill by council Northern Ireland, April to June 2022 and April to June 2023





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, 61.6 per cent (3,277 tonnes) of all waste sent to landfill was biodegradable, whilst in Ards & North Down, 38.5 per cent of all waste sent to landfill was biodegradable.

#### **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 <u>assessment</u> against the Code of Practice, in January 2014 by the UK Statistics Authority.

A compliance check <u>assessment</u> 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 <u>time series</u> of Northern Ireland local authority collected municipal waste management statistics to accompany the report and tables. This <u>dataset</u> is also available on Open Data NI along with a <u>time series</u> of materials collected at Northern Ireland local authority waste management sites.
- Improved statistical output by creating <u>infographics</u> to accompany the report and tables.
- Improved statistical output by creating an <u>interactive dashboard</u> 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

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