

# Northern Ireland Quarterly Index of Production

## Quarter 4 (October - December) 2022

Theme: Economy  
Frequency: Quarterly  
Geographical Area: Northern Ireland  
Date: 16 March 2023

### Introduction

The quarterly Index of Production (IOP) provides a timely indicator of growth in the output of the production industries in Northern Ireland (NI). IOP indices, along with other published quarterly data and unpublished agricultural output data, are used to generate the [Northern Ireland Composite Economic Index \(NICEI\)](#). The NICEI is an experimental quarterly measure of economic activity in NI.

In line with guidance detailed in the [UK National Accounts Blue Book 2022](#) (published on 31 October 2022), figures in this publication have been weighted using the revised Northern Ireland 2019 GVA, and the base year has remained at 2019 for a second consecutive year. This is to account for any atypical movements in the series in 2020 as a result of the coronavirus (COVID-19) pandemic.

### Key Points

Output estimates are calculated from the IOP aspect of the Quarterly Business Survey (QBS). The IOP has a sample size of approximately 1,200 covering all production businesses with 40 or more employees and a representative sample of smaller businesses. All estimates are compared to the revised Quarter 3 2022 and Quarter 4 2021 estimates.

- The NI IOP decreased by 0.6% over the quarter (October - December) and by 1.0% over the year.
- When looking at the revised series, NI IOP has shown a decrease in three of the last 4 quarters.
- The UK IOP reported decreases of 0.2% over the quarter and 4.2% over the year.
- When the most recent four quarters are compared to the previous four quarters, the NI production sector increased by 2.6% while the UK production sector decreased by 3.6%.
- The NI IOP is 4.5% above the pre-Coronavirus pandemic level seen in Quarter 4 2019, while the UK is 1.4% above its Quarter 4 2019 level.
- The quarterly decrease in NI production output of 0.6% was driven by decreases in Manufacturing (0.1%), Mining and quarrying sector (7.4%) and Electricity, gas, steam and air conditioning supply (9.5%). This was offset by an increase in Water supply, sewerage and waste management (Inc. recycling) (1.7%).
- The annual decrease in NI production output of 1.0% was driven by decreases in Electricity, gas, steam and air conditioning supply (16.1%) and Mining and quarrying (18.8%). This was offset by increases in Manufacturing (0.9%) and Water supply, sewerage and waste management (Inc. recycling) (4.3%).

Published March 2023

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## 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 designated as National Statistics on 5 August 2011 following a full [Index of Production assessment](#) against the UK [Code of Practice for Statistics](#).

Since the assessment by the UK Statistics Authority we have continued to comply with the Code of Practice for Statistics and have made the following improvements:

- Removed pre-release access to enhance trustworthiness and also brought the publication date forward as a result;
- Reduced [business burden](#) by offering the option of online data returns;
- Improved accessibility of Index of Production Statistics by amending the format and structure of reports in line with accessibility regulations.

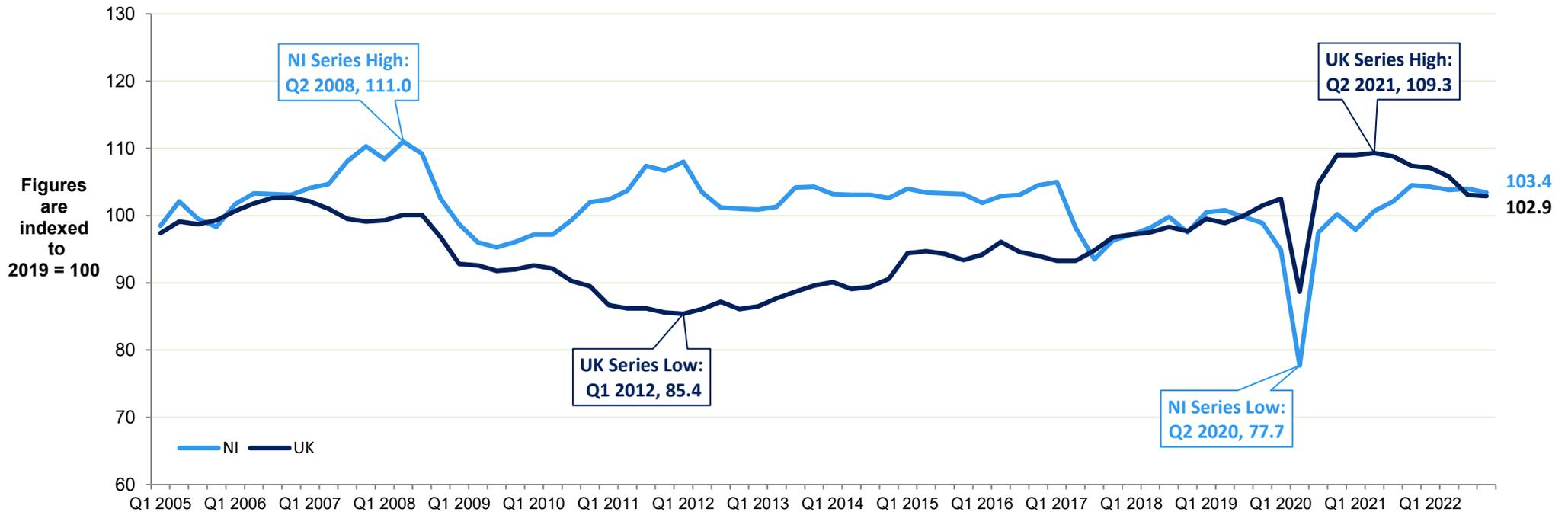
# 1 Summary of Index of Production

## Change in IOP

The seasonally adjusted estimate for the NI IOP for Quarter 4 2022 showed:

- A decrease of 0.6% over the quarter from the Quarter 3 2022 revised estimate;
- A decrease of 1.0% over the year from the Quarter 4 2021 revised estimate; and
- An increase of 2.6% when the most recent four quarters are compared to the previous four quarters.

Figure 1.1 IOP, NI & UK, Q1 2005 – Q4 2022



[Download Q4 2022 Data](#)

## Commentary

Output in the NI Production sector reported a decrease of 0.6% in real terms over the fourth quarter of 2022. The UK Production sector reported a decrease of 0.2% over the same period. There were decreases over the year in NI (1.0%) and in the UK (4.2%).

Between Quarter 1 2016 and Quarter 4 2019, the NI Index of Production output showed growth in ten out of sixteen quarters. The NI IOP then fell to its series low in Quarter 2 2020 but has since recovered to be 4.5% above the pre-pandemic level seen in Quarter 4 2019 (the UK IOP is 1.4% above its pre-pandemic level).

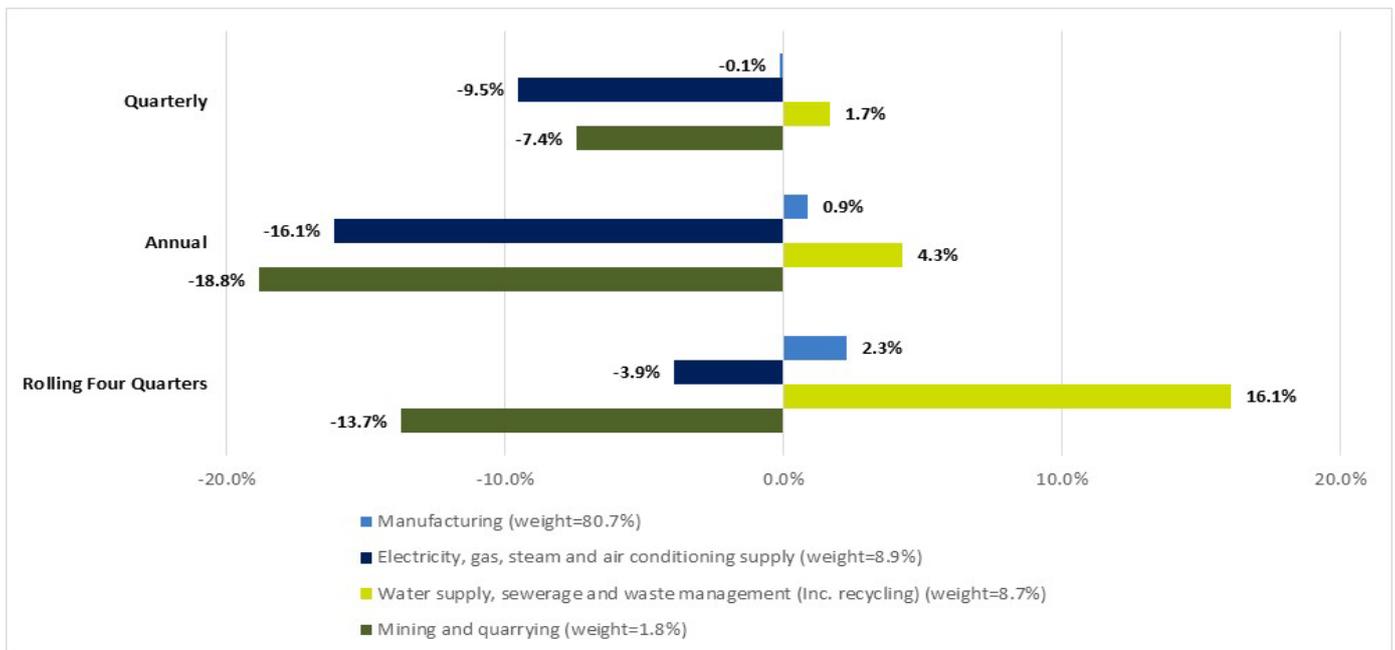
In Quarter 4 2022 NI output is 33.1% above the series low (Quarter 2 2020) but remains 6.9% below the series high (Quarter 2 2008).

Over the quarter to Quarter 4 2022 one main sector showed an increase - Water supply, sewerage and waste management (Inc. recycling) sector (1.7%). The largest decrease over the quarter was reported by Electricity, gas, steam and air conditioning supply sector (9.5%), followed by decreases in Mining and quarrying (7.4%) and Manufacturing (0.1%).

Comparing the seasonally adjusted NI IOP from Quarter 4 2021 to Quarter 4 2022 two of the four main sectors showed decreases, Mining and quarrying sector (18.8%) and Electricity, gas, steam and air conditioning supply sector (16.1%). The largest increase over the year being in the Water supply, sewerage and waste management (Inc. recycling) sector (4.3%).

Comparing the seasonally adjusted NI IOP for the most recent four quarters to the previous four quarters, two of the four main sectors reported an increase, with the largest increase of 16.1% reported in the Water supply, sewerage and waste management (Inc. recycling) sector. The Mining and quarrying sector reported the largest decrease of 13.7%.

**Figure 1.2 Quarterly, annual and rolling four quarters changes in IOP at sector level Quarter 4 2022<sup>1</sup>**



<sup>1</sup> For further information on weights see Regional GVA information on page 20

## Context

The IOP is an important short-term measure of change in the output of the production sector of the economy. The contents of this report will be of interest to government policymakers, Members of the Legislative Assembly, the business community, economic commentators, academics and members of the general public with an interest in the NI economy. A [summary of recent uses](#) is available on the NISRA website.

The Department for the Economy (DfE) [Economic Commentary](#) provides an overview of the NI economy, setting it in context with the UK and Republic of Ireland.

The most up-to-date official statistics on the economy and labour market are available on the [Economic Overview](#) dashboard on the [Economic and Labour Market Statistics \(ELMS\) section](#) of the NISRA website.

The IOP is published on a Standard Industrial Classification 2007 (SIC07) basis. IOP data prior to Quarter 2 2011 were collected on a SIC03 basis and have been converted to approximate the SIC07 coverage. Volatility can arise when businesses inform NISRA of SIC code changes via business surveys, the Office of National Statistics (ONS) or HM Revenue & Customs (HMRC). This new information helps to improve the industry estimates of production output but can add volatility to quarterly and annual changes.

The background notes (Section 4) provide information on the methodology used to produce the statistics, as well as information on the quality and accuracy of the data. This bulletin contains results for the production sector as a whole, for Manufacturing; Electricity, gas, steam and air conditioning supply; Water supply, sewerage and waste management (Inc. recycling) and Mining and quarrying sectors. Production sector series are seasonally adjusted (unless otherwise stated) on a 2019=100 basis using X-13 ARIMA SEATS, giving data up to the most recent available quarter (Quarter 4 2022).

Comparative UK data, produced by the Office for National Statistics (ONS), are presented where these are available. The [latest UK IOP results](#) can be found on the ONS website. Note that processing of data can result in small rounding differences between percentage change estimates reported by ONS and this report.

This publication provides three measures of growth for the index.

1. **Quarter-on-quarter change** provides the most recent measure of how the sector is changing. It is appropriate to compare consecutive quarters as the indices are seasonally adjusted to remove the effects of changes in output as a result of the time of the year;
2. **Year-on-year change** compares the current quarter with the same quarter one year ago; and
3. **Rolling four quarter change** compares the most recent twelve months with the twelve months before. This comparison is useful for identifying changes in output over a longer time period than the other two approaches and is less affected by shocks impacting one quarter.

## Revisions

Results are provisional and subject to revision which can be made for a variety of reasons. The most common include late responses to surveys, estimates being replaced by actual data, revisions to seasonal adjustment factors, methodological changes and changes to business classifications. There can also be changes made to the deflators provided by ONS which may impact the entire series. A revisable period of the preceding four quarters is applied for late responses for IOP census businesses. Volatility also arises when businesses inform NISRA of SIC code changes via business surveys, ONS or HM Revenue & Customs (HMRC). This new information helps to improve the estimates of growth each quarter but also adds volatility to quarterly and annual changes. Only rarely are there avoidable 'errors' such as human or system failures, and such mistakes are made quite clear when they do occur.

## 2 Production output by sector

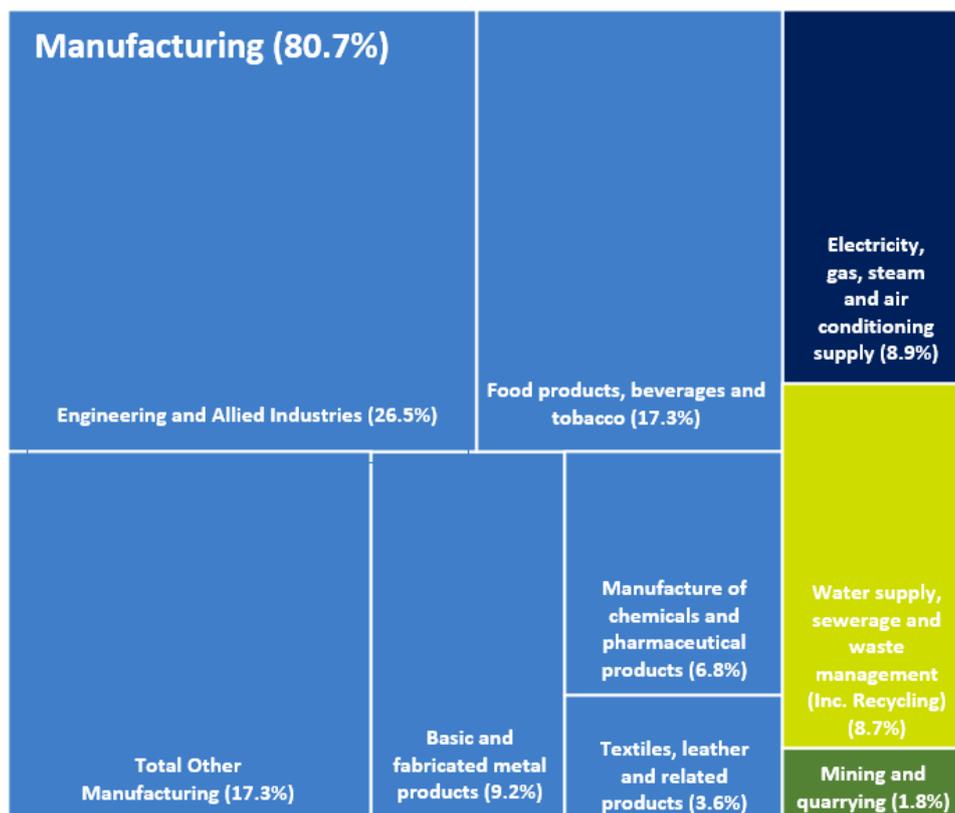
**Output:** Turnover, defined as the value of total sales generated from all NI based activity, excluding VAT. Turnover is rounded to the nearest thousand and is then deflated. This turnover is then converted into an index value, which is a convenient form of expressing a series in a way that makes it easier to see changes in that series. The numbers in the series are expressed relatively, in this case the average of the turnover in 2019 chosen to be the 'base' (expressed as 100) and other turnover values being measured relative to this base.

### 2.1 Key findings

- The IOP reported decreases of 0.6% over the quarter, 1.0% over the year and an increase of 2.6% on a rolling four quarters basis.
- The quarterly decrease in NI production output of 0.6% was driven by decreases in Manufacturing (0.1%), Mining and quarrying sector (7.4%) and Electricity, gas, steam and air conditioning supply (9.5%). This was offset by an increase in Water supply, sewerage and waste management (Inc. recycling) (1.7%).
- The annual decrease in NI production output of 1.0% was driven by decreases in Electricity, gas, steam and air conditioning supply (16.1%) Mining and quarrying (18.8%). This was offset by increases in Manufacturing (0.9%) and Water supply, sewerage and waste management (Inc. recycling) (4.3%).
- The NI IOP is 4.5% above the pre-pandemic level seen in Quarter 4 2019, while the UK is 1.4% above the Quarter 4 2019 level.

The Production sector is dominated by Manufacturing, which accounts for approximately 80.7% of total production Gross Value Added (GVA) at 2019 prices.

**Figure 2.1 IOP sector split (based on 2019 GVA)**



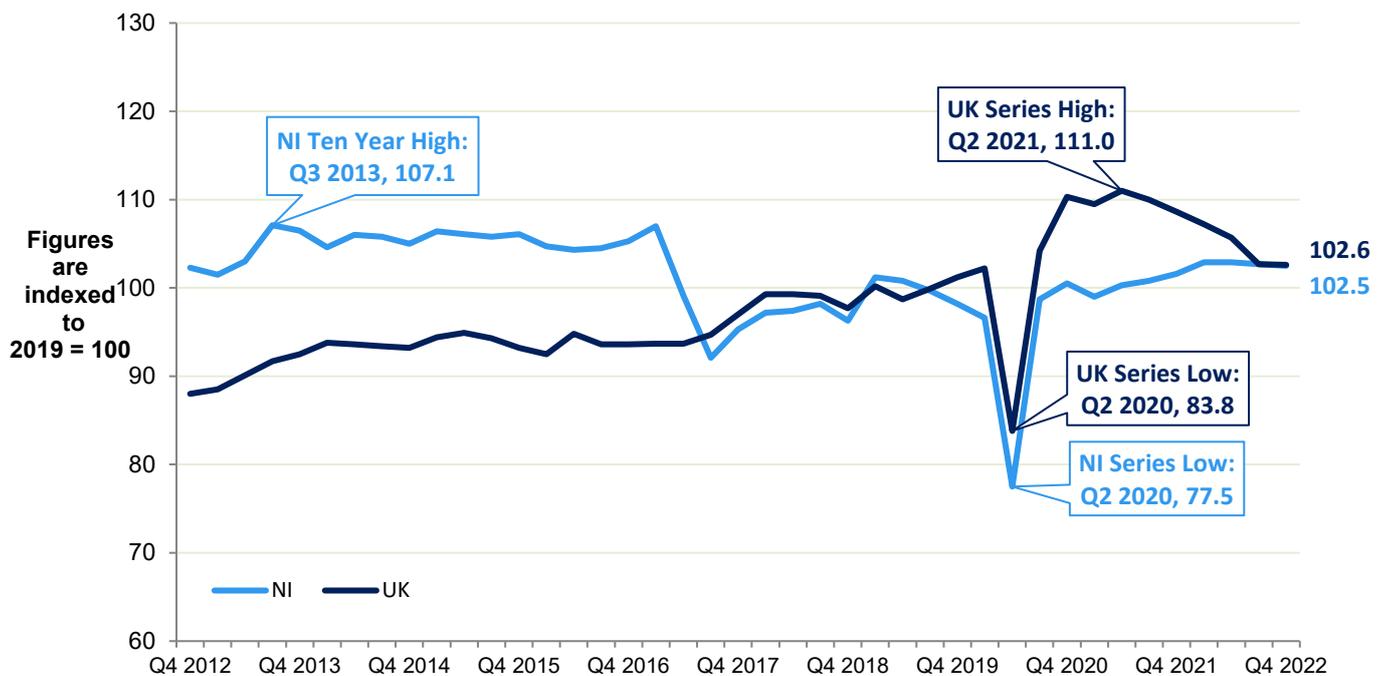
## 2.2 Manufacturing

**Manufacturing sector (SIC07 Section C) - (weight = 80.7% of IOP):** Manufacturing involves the transformation of materials into new products (outputs). It is comprised of six subsectors, as shown in Figure 2.1.

### Key findings

- The NI seasonally adjusted figures show a decrease of 0.1% over the quarter and increases of 0.9% over the year and 2.3% on a rolling four quarters basis.
- The UK seasonally adjusted figures show decreases of 0.1% over the quarter, 5.5% over the year and 4.8% on a rolling four quarters basis.
- NI output is 4.2% below the highest point recorded (Quarter 3 2013) over the last ten years.
- NI output is 32.3% above the series low recorded in Quarter 2 2020.
- Within manufacturing four of the six broad subsectors (as shown in Figure 3.1) increased over the quarter (See Section 3, page 12).

**Figure 2.2 Manufacturing sector, NI & UK, Q4 2012 – Q4 2022**



[Download Q4 2022 Data](#)

The UK index has been outperforming the NI index in the Manufacturing sector since Quarter 3 2017. Both indices were at a series low in Quarter 2 2020. In Quarter 4 2022 NI Manufacturing was 4.4% above the pre-pandemic level seen in Quarter 4 2019 while UK Manufacturing was 1.4% above its pre-pandemic level.

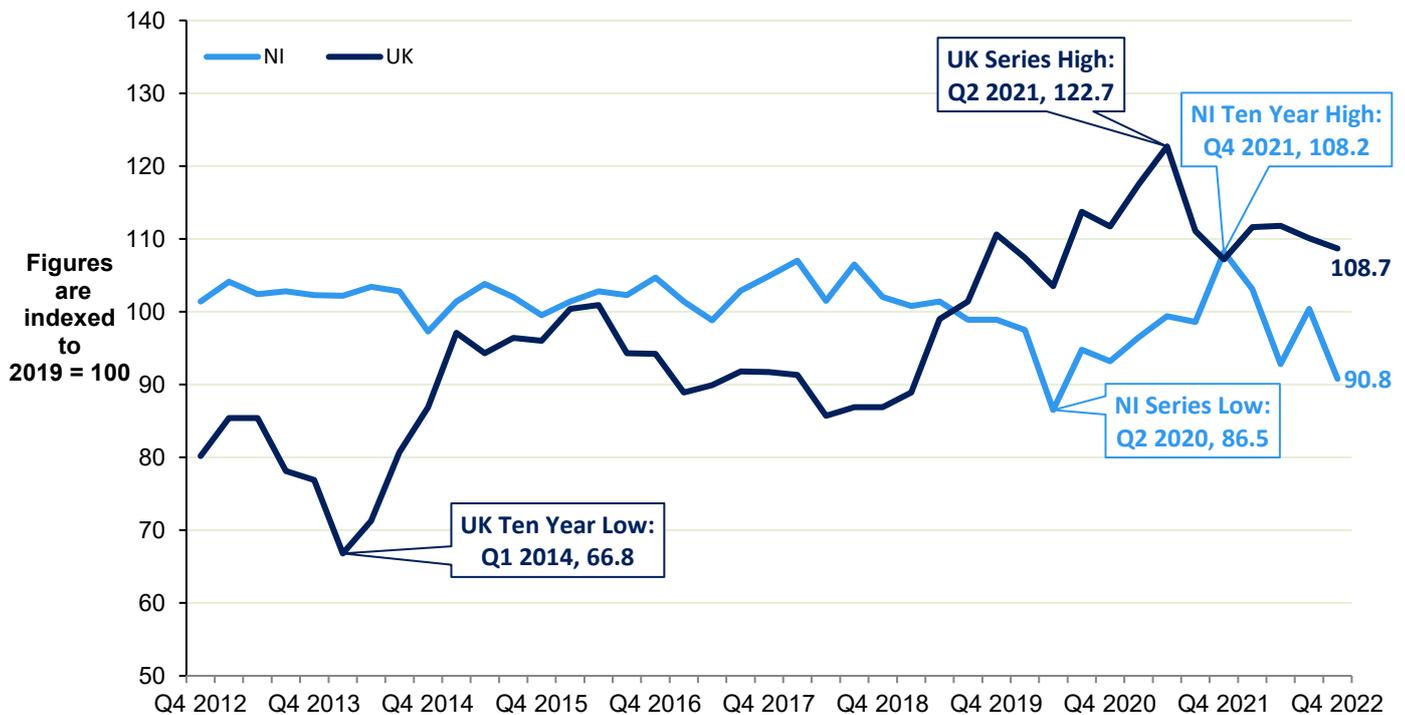
## 2.3 Electricity, gas, steam and air conditioning supply

**Electricity, gas, steam and air conditioning supply (SIC07 Section D) (weight = 8.9% of IOP):** This sector includes the activity of providing electric power, natural gas, steam, hot water and the like through a permanent infrastructure (network) of lines, mains and pipes. Also included is its distribution in industrial parks or residential buildings. Therefore, the operation of electric and gas utilities are included.

### Key findings

- The NI seasonally adjusted figures show decreases of 9.5% over the quarter, 16.1% over the year and 3.9% on a rolling four quarters basis.
- The seasonally adjusted figures for the UK show decreases of 1.3% over the quarter, an increase of 1.4% over the year and a decrease of 3.6% on a rolling four quarters basis.
- The NI estimate is 16.8% below the series high recorded in Quarter 1 2010 and 16.1% below the ten year high recorded in Quarter 4 2021.
- NI output is 5.0% above the series low recorded in Quarter 2 2020.

**Figure 2.3 Electricity, gas, steam and air conditioning supply, NI & UK, Q4 2012 – Q4 2022**



[Download Q4 2022 Data](#)

The NI index remained relatively stable between Quarter 3 2012 and Quarter 3 2019 while, during the same period, the UK index saw an upward trend. The NI index has outperformed the UK index in this sector between Quarter 3 2012 and Quarter 2 2019. In recent quarters the UK index has been outperforming the NI index. In NI this sector is 8.1% below the pre-pandemic level of Quarter 4 2019 and in the UK this sector is 1.7% below its Quarter 4 2019 level.

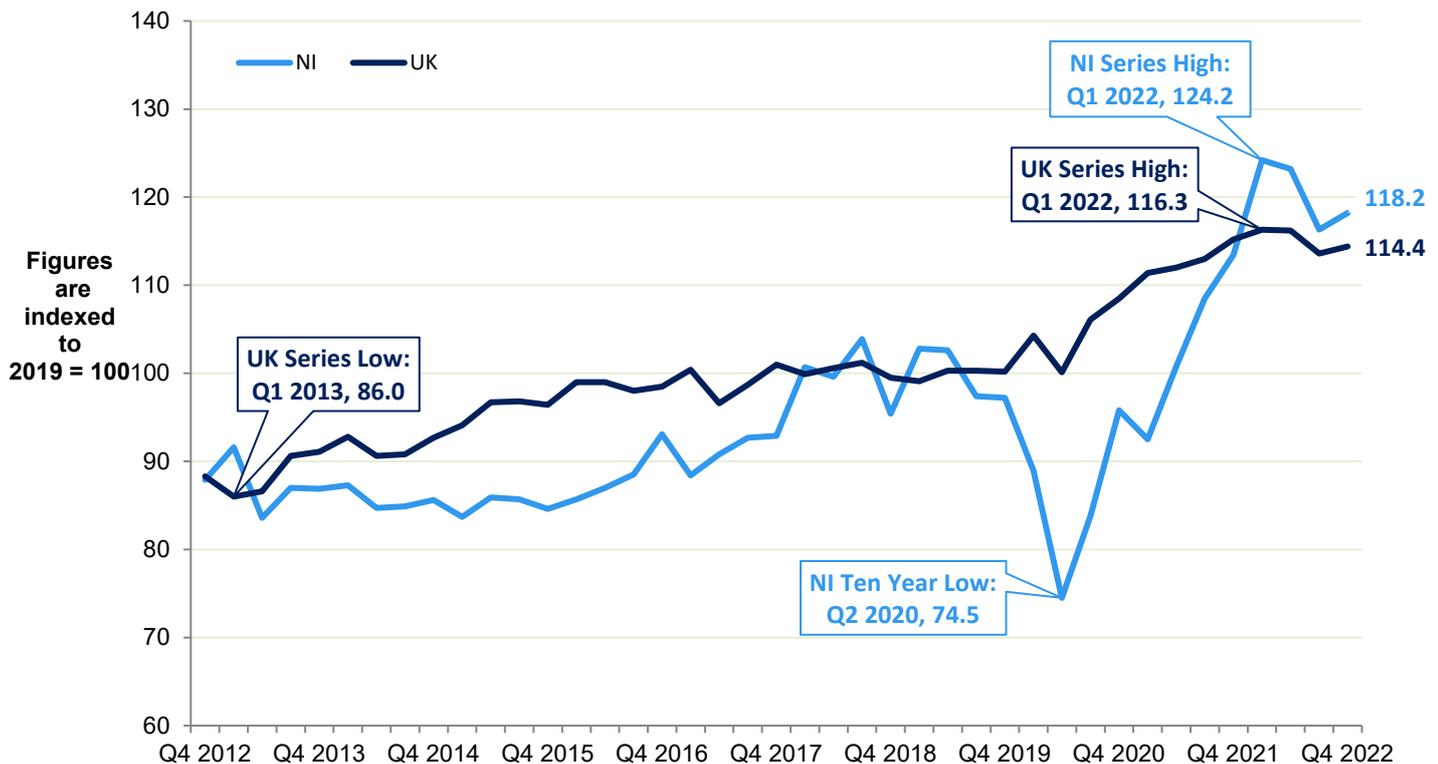
## 2.4 Water supply, sewerage and waste management (Inc. recycling)

**Water supply, sewerage, and waste management (Inc. recycling) (SIC07 Section E) (weight = 8.7% of IOP):** This section covers activities related to the management (including collection, treatment and disposal) of various forms of waste, such as solid or non-solid industrial or household waste, as well as contaminated sites. Activities of water supply are also grouped in this section since they are often carried out in connection with, or by units also engaged in, the treatment of sewage.

### Key findings

- The NI seasonally adjusted figures show increases of 1.7% over the quarter, 4.3% over the year and 16.1% on a rolling four quarters basis.
- The UK reports an increase of 0.7% over the quarter, a decrease of 0.7% over the year, and an increase of 2.0% on a rolling four quarters basis.
- The NI estimate is 4.8% below the series high recorded in Quarter 1 2022.
- NI output is 58.7% above the ten year low recorded in Quarter 2 2020 and is 72.5% above the series low recorded in Quarter 3 2005.

**Figure 2.4 Water supply, sewerage and waste management (Inc. recycling), NI & UK, Q4 2012 – Q4 2022**



[Download Q4 2022 Data](#)

The UK index has generally been outperforming the NI index in this sector since Quarter 3 2013. NI output saw a substantially larger decrease in 2020 than the UK output but has recovered in recent quarters. In NI this sector is 21.6% above the pre-pandemic level of Quarter 4 2019 and in the UK it is 14.2% above its Quarter 4 2019 level.

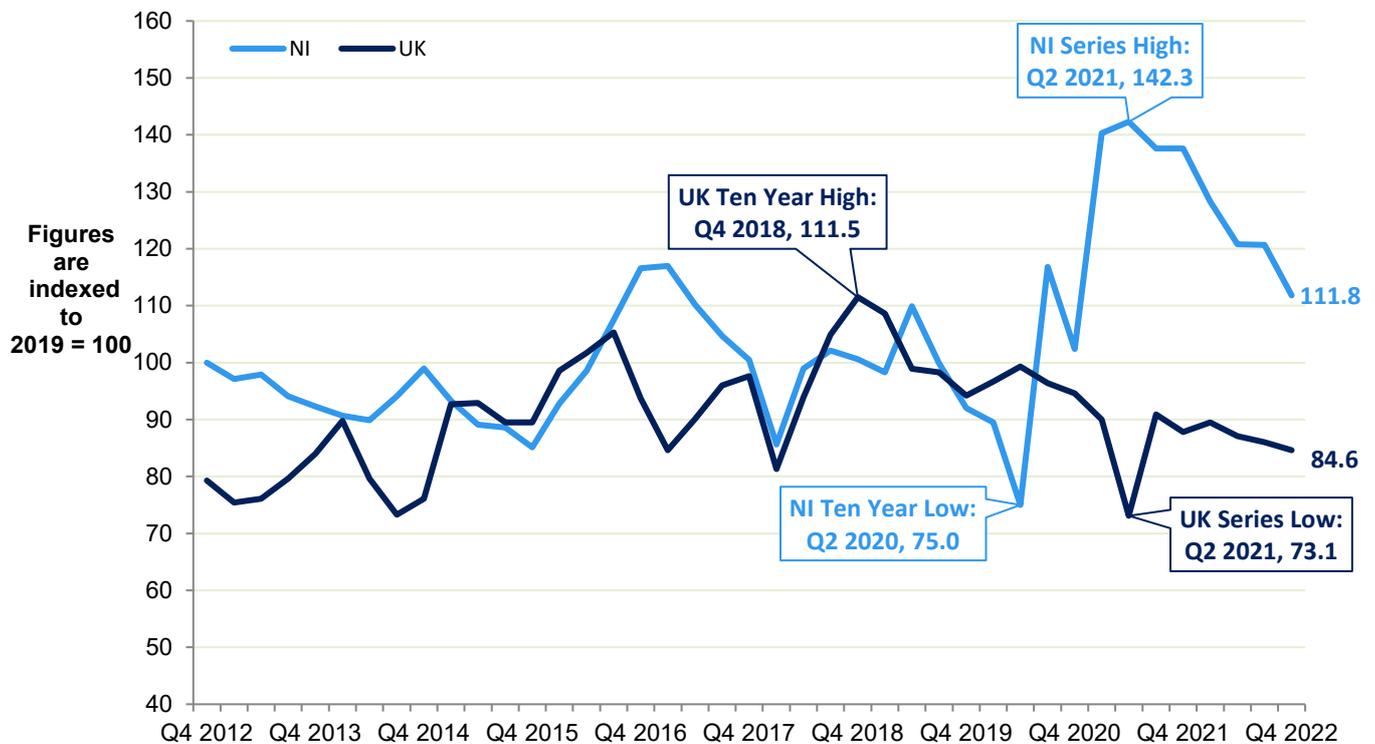
## 2.5 Mining and quarrying

**Mining and quarrying (SIC07 Section B) (weight = 1.8% of IOP):** This section covers the extraction of minerals occurring naturally as solids (coal and ores), liquids (petroleum) or gases (natural gas). Extraction can be achieved by different methods such as underground or surface mining, well operation, seabed mining, etc.

### Key findings

- The NI seasonally adjusted figures show decreases of 7.4% over the quarter, 18.8% over the year and 13.7% on a rolling four quarters basis.
- The UK seasonally adjusted figures show decreases of 1.6% over the quarter, 3.6% over the year and an increase of 1.6% on a rolling four quarters basis.
- NI output is 21.5% below the series high recorded in Quarter 2 2021.
- NI output is 49.1% above its ten year low (Quarter 2 2020) and 64.3% above the series low (Quarter 1 2005).

**Figure 2.5 Mining and quarrying, NI & UK, Q4 2012 – Q4 2022**



[Download Q4 2022 Data](#)

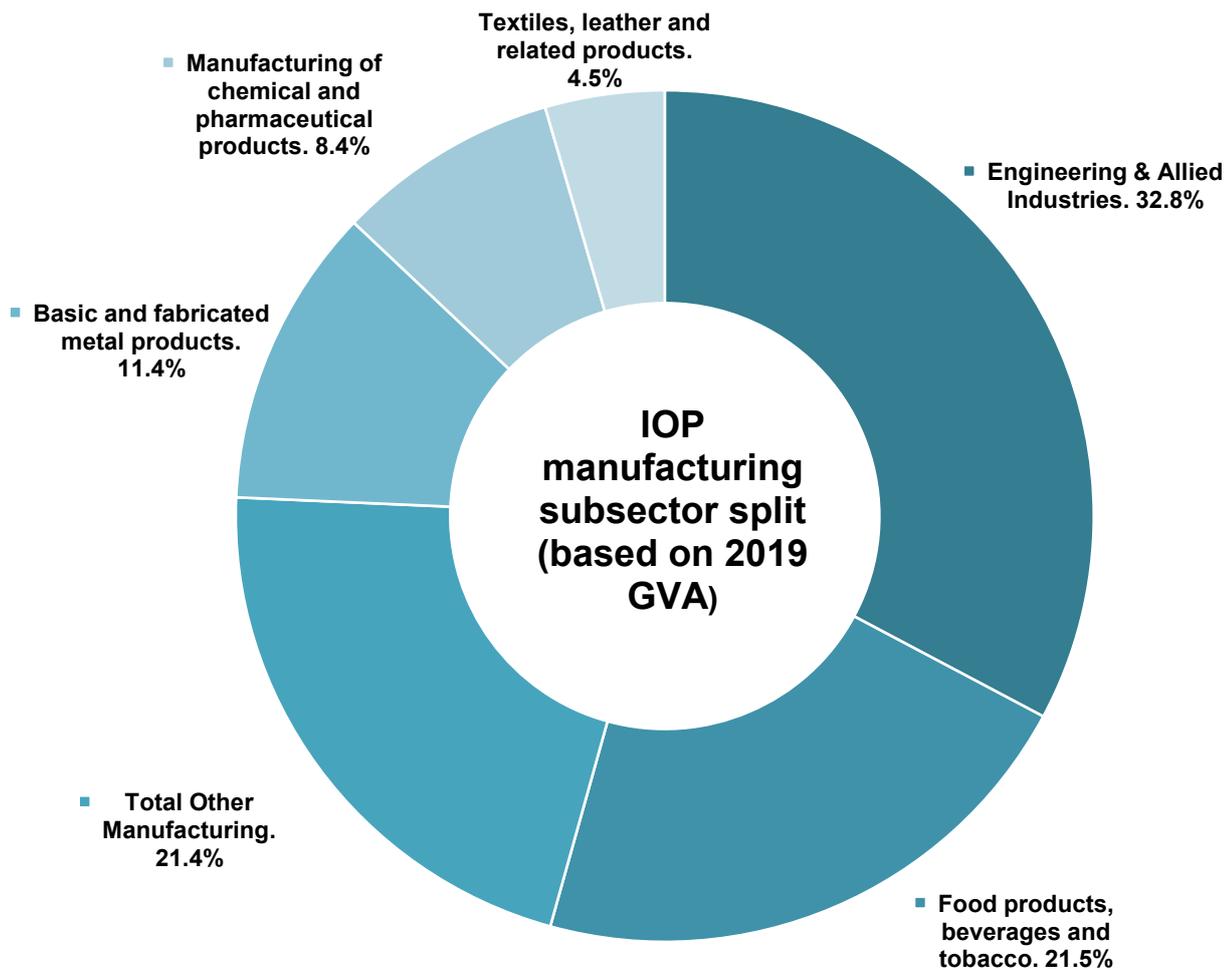
Both the NI and the UK indices have shown volatility in the Mining and quarrying sector. Since Quarter 3 2016 NI has generally performed better than the UK in this sector. In NI this sector is currently 21.5% above the pre-pandemic level reported in Quarter 4 2019, whereas in the UK this sector is 10.2% below its Quarter 4 2019 level.

# 3 Manufacturing subsectors

## Key findings

- The quarterly decrease in Manufacturing output (0.1%) was driven by decreases in two of the six main subsectors: Total other manufacturing (3.4%) and Manufacture of chemical and pharmaceutical products (6.3%).
- These decreases are partially offset by increases in the Engineering and allied industries (3.7%); Food products, beverages and tobacco (1.5%); Basic metals and fabricated metal products; (1.7%); and Manufacture of textiles, leather and related products (1.6) subsectors.
- Over the year the increase in Manufacturing (0.9%) was driven by increases in three of the six main subsectors: Engineering and allied industries (19.9%); Food products, beverages and tobacco (8.3%) and Manufacture of textiles, leather and related products (2.5%).
- These increases were partially offset by decreases in Total other manufacturing (8.0%); Basic metals and fabricated metal products (1.7%); and Manufacture of chemical and pharmaceutical products (36.7%) subsectors.

**Figure 3.1 Manufacturing subsector split (based on 2019 GVA)\***



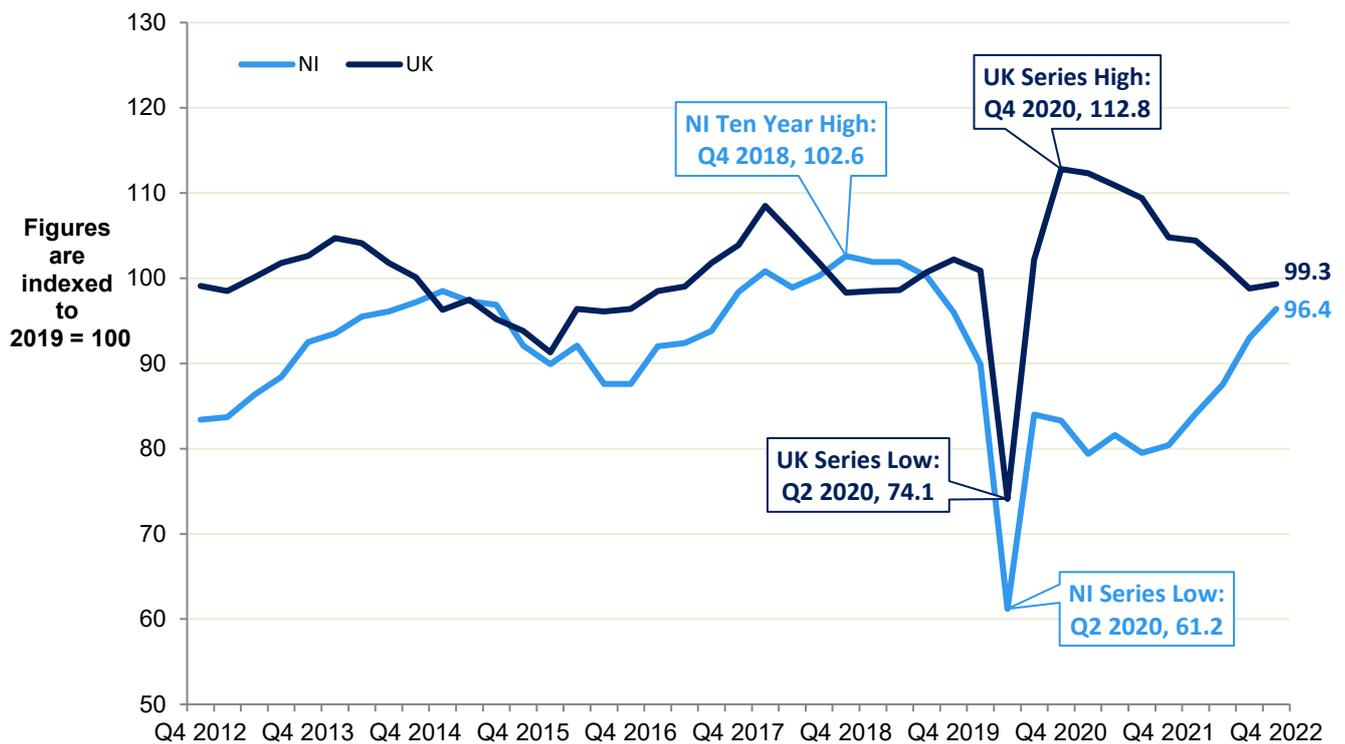
\*may not total 100% due to rounding

## 3.2 Engineering and allied industries (weight=26.4% of IOP, 32.8% of Manufacturing)<sup>2</sup>

### Key findings

- NI seasonally adjusted figures show increases over the quarter (3.7%), over the year (19.9%) and on a rolling four quarters basis (12.5%).
- The UK estimate shows an increase of 0.5% over the quarter and decreases of 5.2% over the year and 7.6% on a rolling four quarters basis.
- NI output is 57.4% above its series low (Quarter 2 2020).
- NI output is 6.1% below its ten year high (Quarter 4 2018).

**Figure 3.2 Engineering and allied industries NI & UK, Q4 2012 – Q4 2022**



[Download Q4 2022 Data](#)

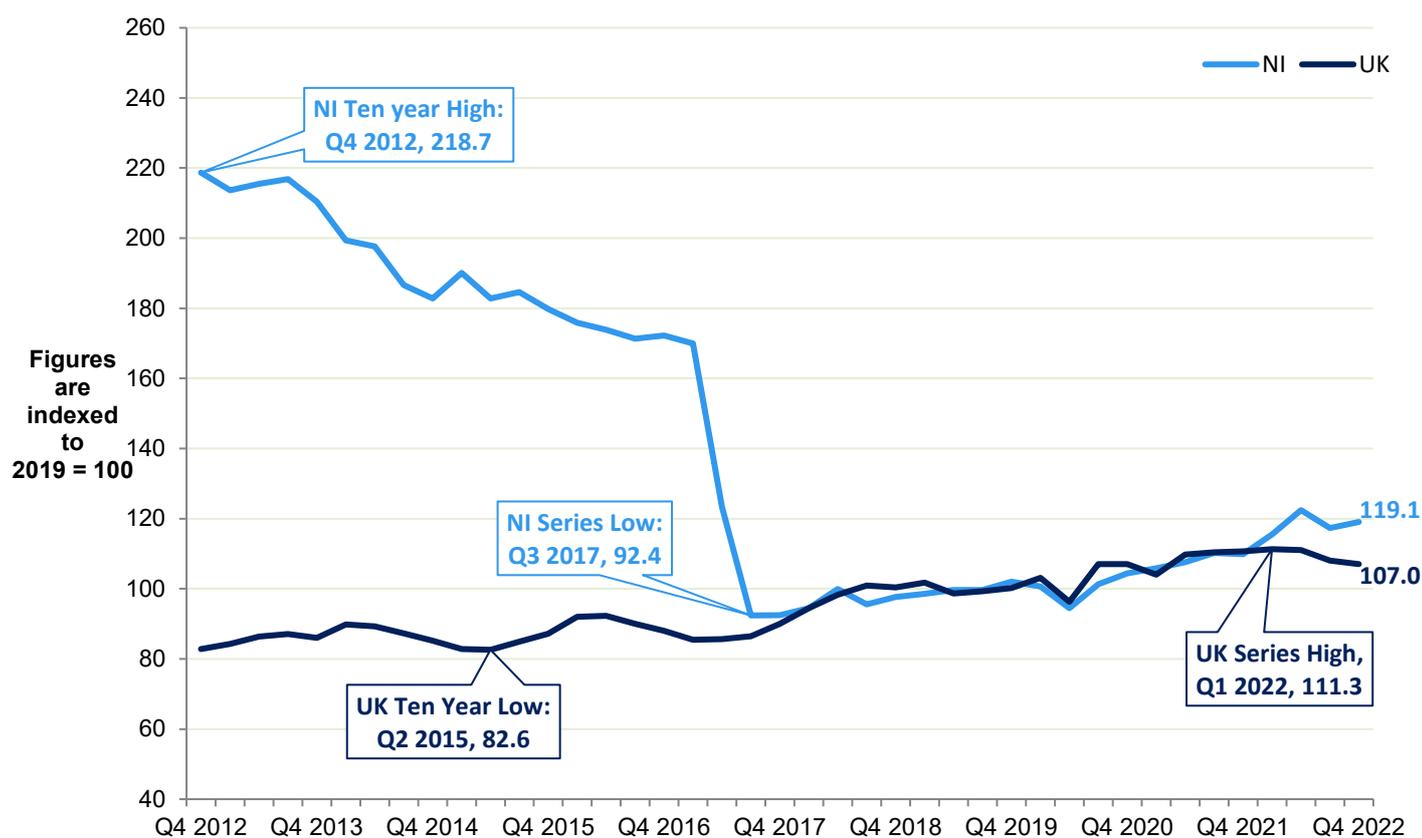
<sup>2</sup> Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

### 3.3 Food products, beverages and tobacco (weight=17.3% of IOP, 21.5% of Manufacturing)<sup>3</sup>

#### Key findings

- NI output reported increases of 1.5% over the quarter, 8.3% over the year and 9.3% on a rolling four quarters basis.
- The UK reported decreases of 0.9% over the quarter and 3.3% over the year, and an increase of 0.6% on a rolling four quarters basis.
- NI output is estimated to be 28.9% above the series low (Quarter 3 2017).
- NI output remains 45.6% below its ten year high (Quarter 3 2012).

Figure 3.3 Food products, beverages and tobacco, NI & UK, Q4 2012 – Q4 2022



[Download Q4 2022 Data](#)

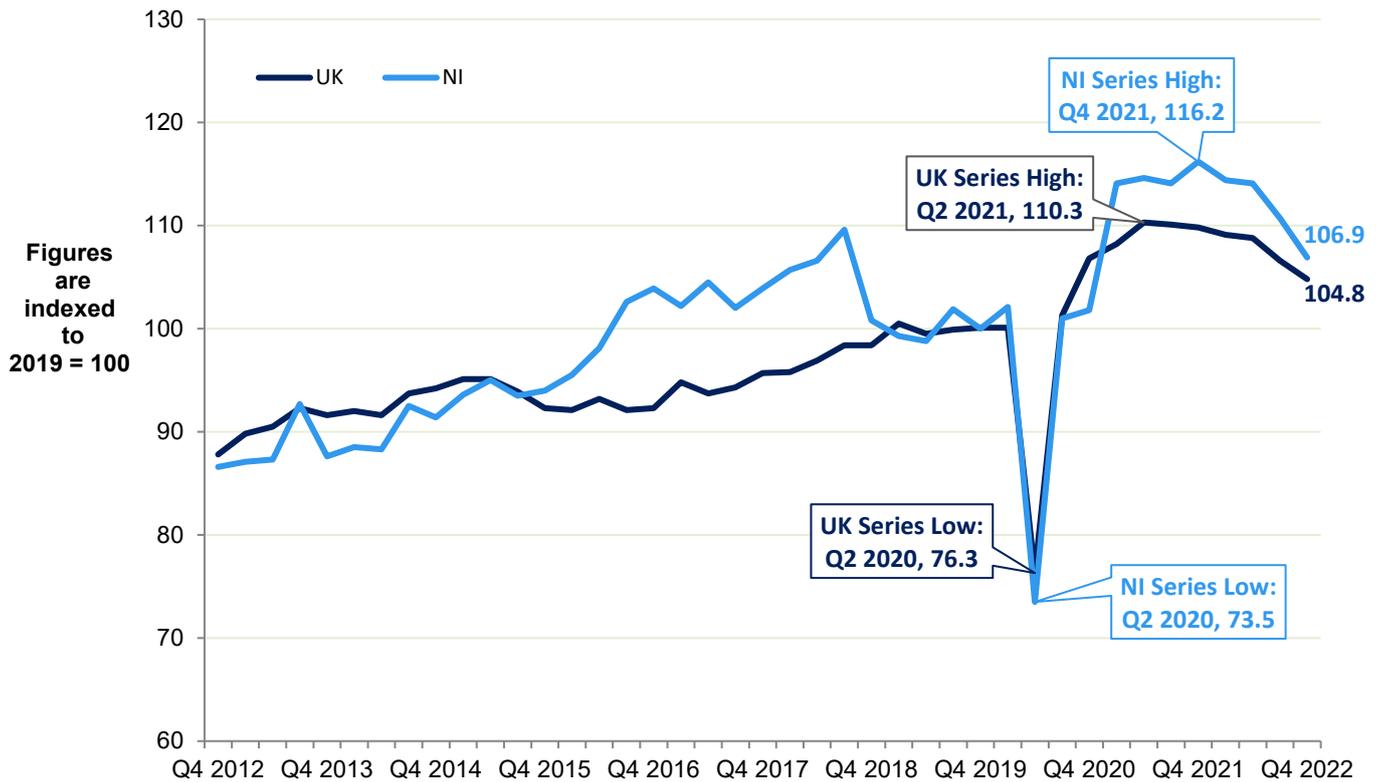
<sup>3</sup> Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

### 3.4 Total Other Manufacturing (weight=17.3% of IOP, 21.4% of Manufacturing)<sup>4</sup>

#### Key findings

- Seasonally adjusted figures show decreases of 3.4% over the quarter, 8.0% over the year and 2.8% on a rolling four quarters basis.
- The UK reported decreases over the quarter of 1.7%, over the year of 4.6% and on a rolling four quarters basis of 2.1%.
- NI output is 8.0% below its series high (Quarter 4 2021).
- NI output is 45.4% above its series low (Quarter 2 2020).

Figure 3.4 Total Other Manufacturing, NI & UK, Q4 2012 – Q4 2022



[Download Q4 2022 Data](#)

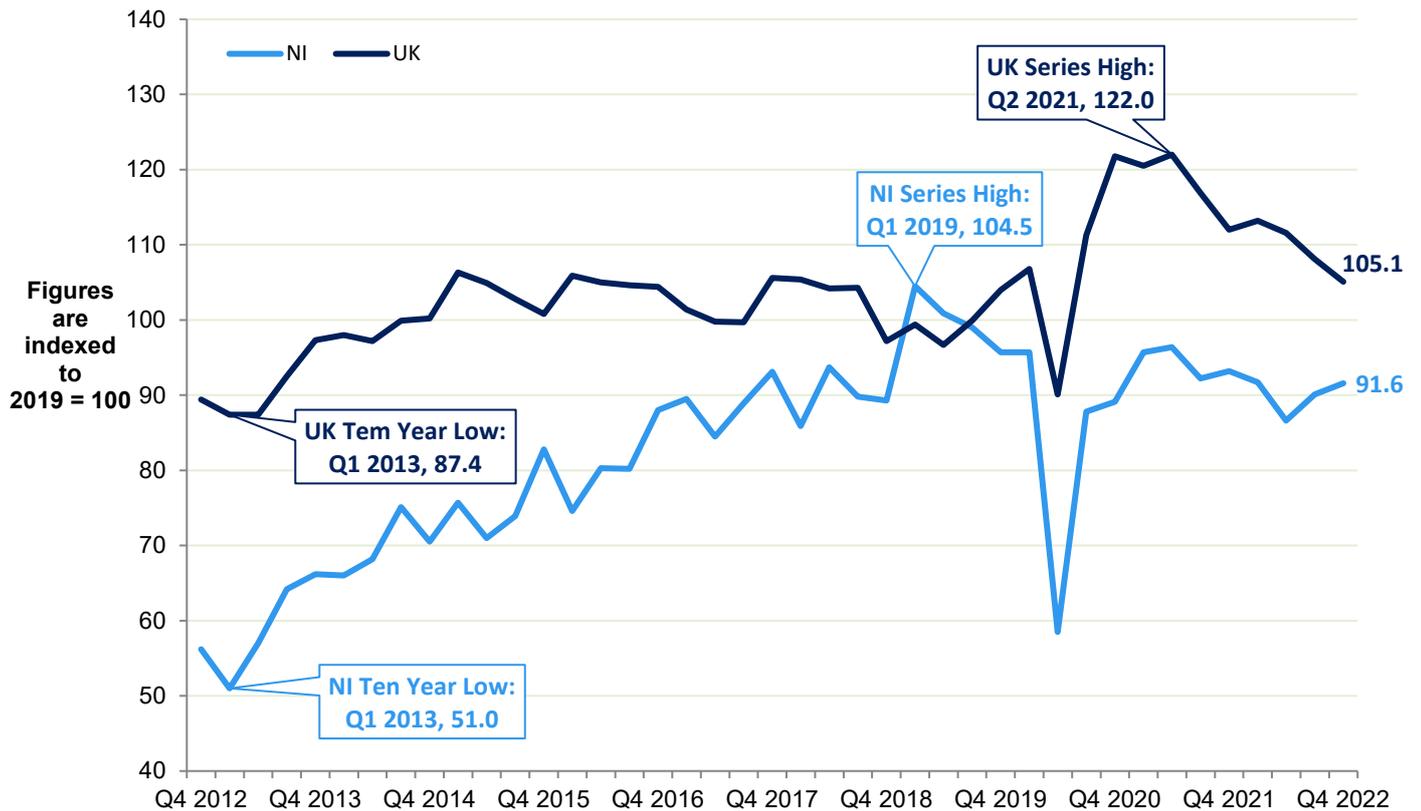
<sup>4</sup> Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

### 3.5 Basic and fabricated metal products (weight=9.2% of IOP, 11.4% of Manufacturing)<sup>5</sup>

#### Key findings

- The NI seasonally adjusted figures show an increase of 1.7% over the quarter and decreases of 1.7% over the year and 4.6% on a rolling four quarters basis.
- UK seasonally adjusted figures show decreases of 2.8% over the quarter, 6.2% over the year and 7.1% on a rolling four quarters basis.
- NI output is 12.3% below its series high (Quarter 1 2019).
- NI output is 79.7% above the ten year low (Quarter 1 2013).

Figure 3.5 Basic and fabricated metal products, NI & UK, Q4 2012 – Q4 2022



[Download Q4 2022 Data](#)

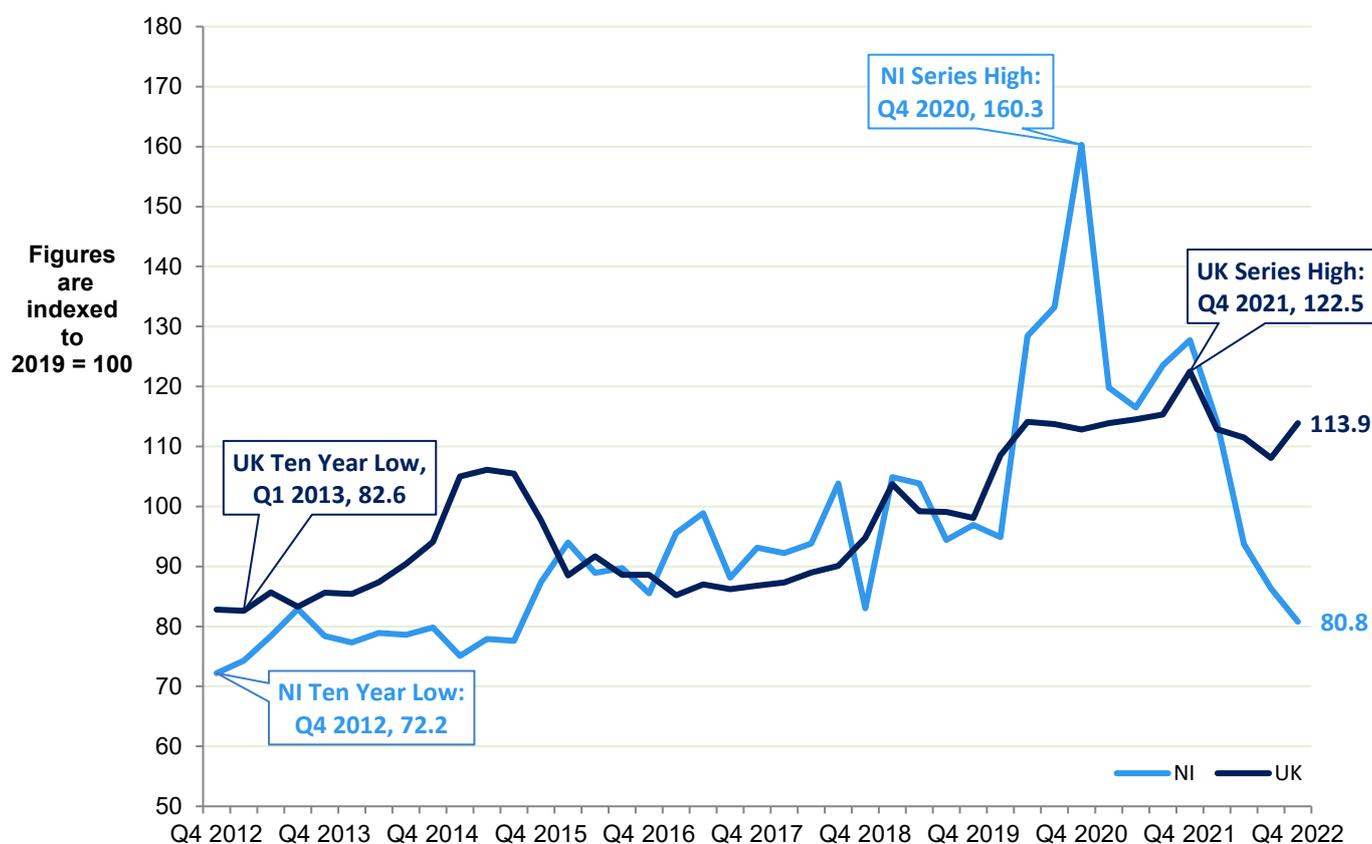
<sup>5</sup> Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

### 3.6 Manufacturing of chemical and pharmaceutical products (weight=6.8% of IOP, 8.4% of Manufacturing)<sup>6</sup>

#### Key findings

- The NI seasonally adjusted figures have decreased by 6.3% over the quarter, 36.7% over the year and 23.1% on a rolling four quarters basis.
- The UK figures show an increase of 5.4% over the quarter and decreases of 7.0% over the year and 4.2% on a rolling four quarters basis.
- NI output is 49.6% below its series high (Quarter 4 2020).
- NI output is 11.9% above the ten year low point (Quarter 4 2012).

**Figure 3.6 Manufacturing of chemical and pharmaceutical products, NI & UK, Q4 2012 – Q4 2022**



[Download Q4 2022 Data](#)

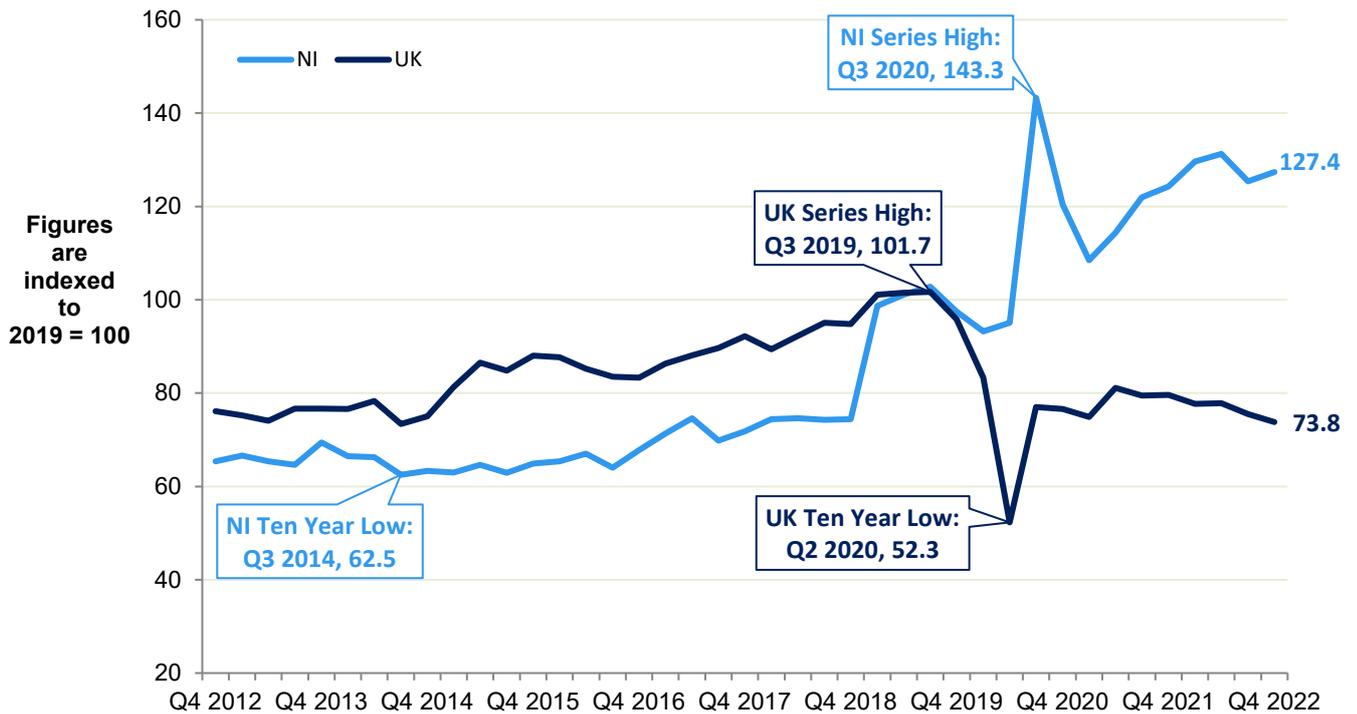
<sup>6</sup> Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

### 3.7 Textiles, leather and related products (weight=3.6% of IOP, 4.5% of Manufacturing)<sup>7</sup>

#### Key findings

- The NI seasonally adjusted figures show increases over the quarter (1.6%) over the year (2.5%) and on a rolling four quarters basis (9.5%).
- UK seasonally adjusted figures show decreases over the quarter (2.3%), over the year (7.3%) and on a rolling four quarters basis (3.3%).
- NI output is 11.1% below its series high (Quarter 3 2020).
- NI output is 104.0% above the ten year low (Quarter 3 2014).

**Figure 3.7 Textiles, leather and related products, NI & UK, Q4 2012 – Q4 2022**



[Download Q4 2022 Data](#)

<sup>7</sup> Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

### 3.8 Other notable trends in Manufacturing<sup>8</sup>

The six broad subsectors within manufacturing can be further broken down into ten more detailed subsectors that are not reported in detail in this bulletin but are included within the IOP tables.

This section summarises any notable trends in these manufacturing sectors.

The following subsectors are at a series high:

- Manufacture of Machinery & equipment ([Table 5.4](#)). This subsector has reported increases in eight of the last ten quarters.

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<sup>8</sup> Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

## 4 Background notes

### Background

The quarterly IOP provides a measure of change in the output of the production industries in NI (this is defined as SIC07 sections B to E). In 2019 these production industries accounted for 16.9% of Regional GVA. For further information please see the [Methodology for the NI Index of Production \(IOP\)](#).

### Impact of coronavirus (COVID-19) on data collection and estimates

Coronavirus impacted on the data collection and the validation of turnover data, which are collected on the Quarterly Business Survey. Coverage rates fell significantly during 2020 and have begun to recover but still remain below the levels seen pre-pandemic.

The following provides an overview of the IOP coverage response rates for 2020, 2021 and 2022 compared to Quarter 4 2022:

**Table 1: Coverage response rates**

	Quarter 4 2022	2022 (median*)	2021 (median*)	2020 (median*)
<b>Coverage response rate (returned turnover)</b>	66%	66%	69%	60%

\*median value achieved at IOP database closure of quarters 1 to 4 2020, 2021 and 2021

### Gross Value Added (GVA)

Weighting has been carried out using the balanced GVA approach, which balances the income and production approaches to measuring the economy into a single estimate. For more information please see [Regional GVA information](#). In line with recent guidance from the [UK National Accounts Blue Book 2022](#), published October 2022, figures in this publication are weighted using revised 2019 GVA which became available on 30 May 2022. Publications for Quarter 1 and Quarter 2 2022 had been weighted using 2020 GVA figures.

### Deflation

All series, unless otherwise quoted, are measured at a constant market price (2019 = 100). Deflators adjust the value series to take out the effect of price change to give the volume series. The deflators used in this bulletin were provided by ONS on 7 March 2023.

### Seasonal Adjustment Review

Following the seasonal adjustment review conducted in May 2022 changes have been made to some regressors and models used to seasonally adjust (where applicable) time series using X13 ARIMA SEATS. This improves the reliability of results. Further details on [this review and other methodological changes](#) implemented in June 2022 are available on the NISRA website.

**Table 2: Changes to recent releases**

<b>Quarter</b>	<b>Change</b>	<b>Detail</b>
Quarter 3 2020	ONS Deflation Methodology Change	As recommended by Eurostat, previous method of rebasing for price statistics was changed to an <a href="#">annual chain-linked business price methodology</a> .
Quarter 3 2020	NI Index Rebased to 2018	Figures rebased to 2018 = 100 in line with ONS. For further information on this please see the <a href="#">Quarter 3 2020 Rebasing Notice</a> .
Quarter 1 2021	Seasonal Adjustment Review	Following the seasonal adjustment review conducted in March 2021 changes have been made to some regressors and models used to seasonally adjust (where applicable) time series using X13 ARIMA SEATS.
Quarter 1 2021	2019 GVA	Figures in this publication are weighted using 2019 GVA, which became available on 26 May 2021.
Quarter 3 2021	NI Index Rebased to 2019	Figures rebased to 2019 = 100 in line with ONS. For further information on this please see the <a href="#">Quarter 3 2021 Rebasing Notice</a> .
Quarter 3 2021	Double deflation methods and deflator improvements	The UK National Accounts Blue Book 2021 was published on 29 October 2021. This introduced a number of improvements to methods, including implementing <a href="#">double deflation</a> using Supply and Use Tables (SUTs). Double deflation is recognised as the best approach for producing volume estimates of GVA. These changes may result in some revisions to the backseries data. These changes are part of the wider <a href="#">development plan</a> for UK Economic Accounts.
Quarter 1 2022	Seasonal Adjustment Review	Following the seasonal adjustment review conducted in May 2022 changes have been made to some regressors and models used to seasonally adjust (where applicable) time series using X13 ARIMA SEATS.

Quarter	Change	Detail
Quarter 1 2022	2020 GVA	Figures in this publication are weighted using 2020 GVA, which became available on 30 May 2022.
Quarter 3 2022	Updated 2019 GVA Reference year	The <a href="#">UK National Accounts Blue Book 2022</a> was published on 31 October 2022. The reference year and base year have remained at 2019 for a second consecutive year due to the impact of the coronavirus (COVID-19) pandemic. In line with international guidance, figures in this publication have been weighted using the revised Northern Ireland 2019 GVA which became available on 30 May 2022.

### Publications policy

All ELMS publications are available to download free of charge from the [ELMS section of the NISRA website](#). The IOP bulletin and tables from the current publication, which includes all the data from the start of the series in 2005, are available in Excel and Open Document format to download from the [IOP section of the NISRA website](#).

Future IOP publications are due to be published on the same day as the [Index of Services](#) and [Retail Sales Index](#) in March, June, September and December of each year. The [ELMS Publication Schedule](#) is available on the NISRA website.

### Next publication

The next bulletin is due to be published on 15 June 2023.

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