

Northern Ireland Quarterly Index of Production

Quarter 4 (October – December) 2021

Theme: Economy
Frequency: Quarterly
Geographical Area: Northern Ireland
Date: 16 March 2022

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 IOP indices, along with other published quarterly data and unpublished agricultural output data, are used to generate the [Northern Ireland Composite Economic Index \(NICEI\)](#).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.

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 2021 and Quarter 4 2020 estimates.

- The NI IOP increased by 1.1% over the quarter (October - December) and increased by 2.2% over the year.
- The UK IOP reported a decrease of 0.4% over the quarter and an increase of 0.1% over the year.
- When the most recent four quarters are compared to the previous four quarters, the NI production sector increased by 8.7% while the UK production sector increased by 4.7%.
- The NI IOP is 3.5% above the pre-Coronavirus pandemic level seen in Quarter 4 2019, while the UK remains 3.5% below Quarter 4 2019.
- All four of the main sectors reported increases over the quarter: Manufacturing (0.2%); Water supply, sewerage and waste management (Inc. recycling) (5.9%); Electricity, gas, steam and air conditioning supply (5.4%) and Mining and quarrying (1.9%).
- The annual increase in NI production output of 2.2% was driven by increases in three of the four main sectors: Water supply, sewerage and waste management (Inc. recycling) (17.6%); Electricity, gas, steam and air conditioning supply (7.5%) and Mining and quarrying (25.8%). This was partially offset by a decrease in Manufacturing (0.5%).

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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 5th 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 PDF \(623KB\)](#) 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.

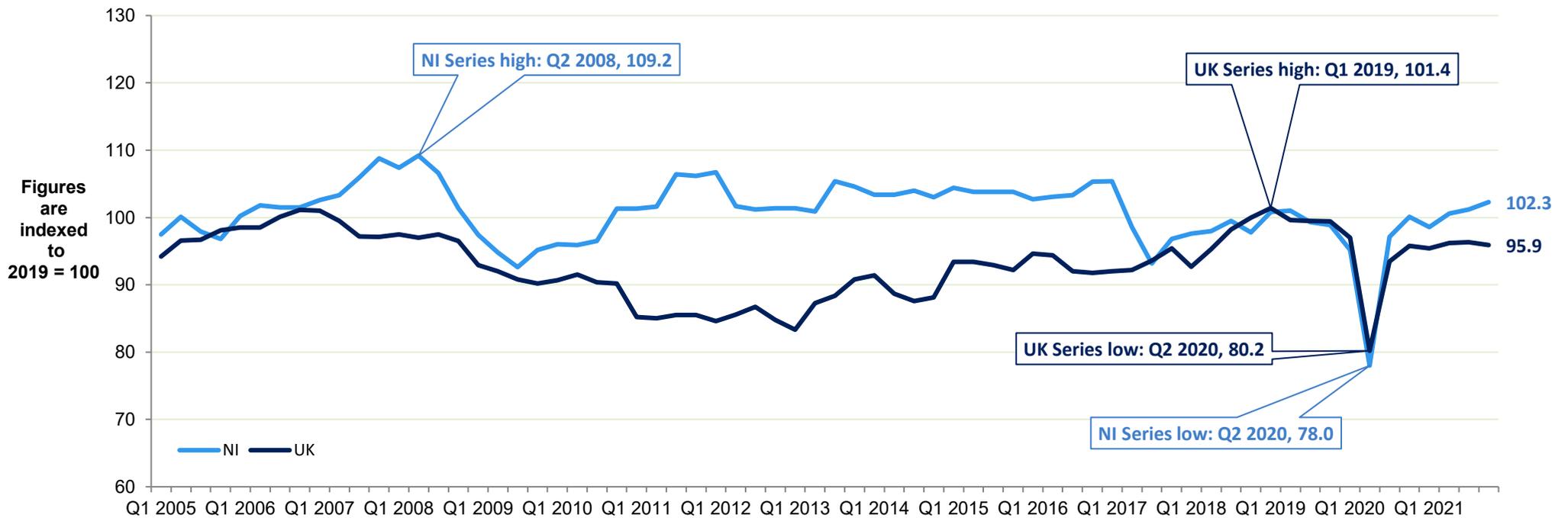
1 Summary of Index of Production

Change in IOP

The seasonally adjusted estimate for the NI IOP for Quarter 4 2021 showed an increase:

- of 1.1% over the quarter from the Quarter 3 2021 revised estimate;
- of 2.2% over the year from the Quarter 4 2020 revised estimate;
- of 8.7% when the most recent four quarters are compared to the previous four quarters.

Figure 1.1 IOP, NI & UK, Q1 2005 – Q4 2021



[Download Q4-21 Data](#)

Commentary

The coronavirus (COVID-19) pandemic and subsequent measures taken to reduce the transmission of the virus has impacted on the economy since 2020. Further information on restrictions on businesses can be found on NI Direct: [Coronavirus guidance documents](#).

Throughout Quarter 4 2021 COVID-19 continued to have an impact with the Omicron variant leading to a slowdown in the easing of restrictions.

Between Quarter 1 2016 and Quarter 4 2019, the NI Index of Production output showed quarterly growth in ten out of sixteen quarters. The IOP fell to its series low in Quarter 2 2020 and has been on an upward trend since (with one quarterly decrease in Quarter 1 2021).

Output in the NI Production sector reported an increase of 1.1% in real terms over the fourth quarter of 2021. The UK Production sector reported a decrease of 0.4% over the same period. There was an increase over the year in NI (2.2%) and the UK (0.1%). The NI IOP is 3.5% above its pre-pandemic level in Quarter 4 2019 while, in contrast, the UK IOP remains 3.5% below.

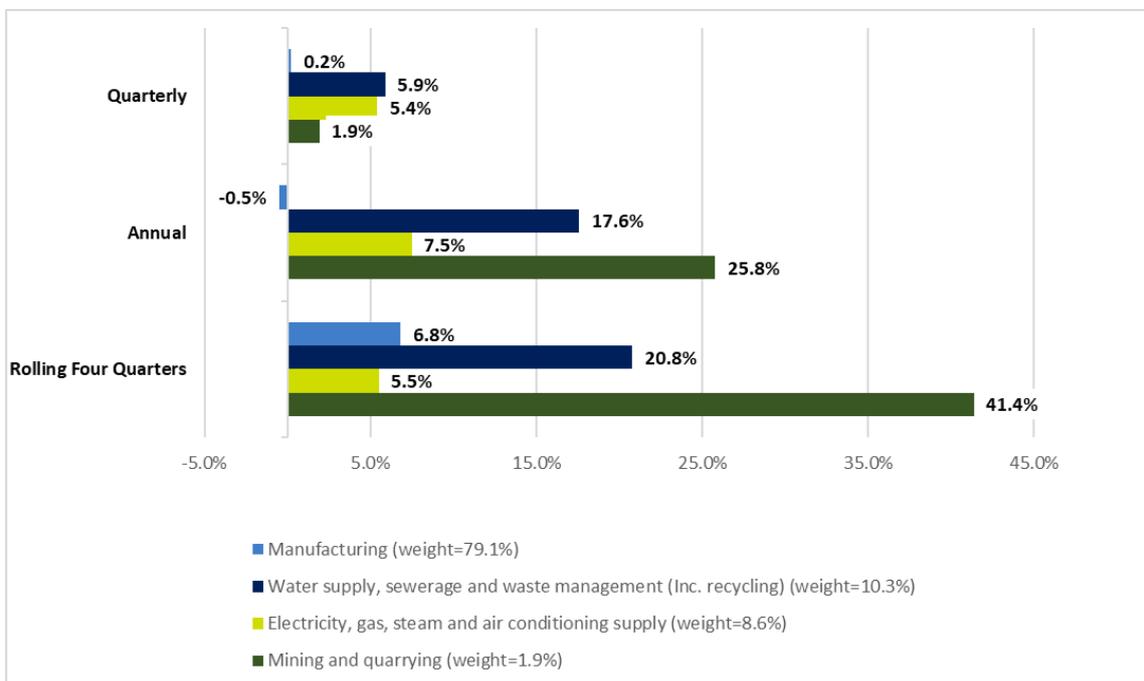
In Quarter 4 2021, NI output is 31.3% above the series low (Quarter 2 2020), but remains 6.3% below the series high (Quarter 2 2008).

Comparing the seasonally adjusted NI IOP from Quarter 3 2021 to Quarter 4 2021 all four of the main sectors showed increases, with the largest increase of 5.9% reported in the Water supply, sewerage and waste management (Inc. recycling) sector.

Comparing the seasonally adjusted NI IOP from Quarter 4 2020 to Quarter 4 2021 three of the four main sectors showed increases, the largest increase of 25.8% being in the Mining and quarrying sector. The only decrease over the year was reported by the Manufacturing sector (0.5%).

Comparing the seasonally adjusted NI IOP for Quarter 1 2021 to Quarter 4 2021 with Quarter 1 2020 to Quarter 4 2020, all of the four main sectors reported an increase, with the largest increase of 41.4% reported in the Mining and quarrying sector.

Figure 1.2 Quarterly, annual and rolling four quarters changes in IOP at sector level Quarter 4 2021¹



¹ 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; Water supply, sewerage and waste management (Inc. recycling); Electricity, gas, steam and air conditioning supply 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 2021).

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 e.g. for comparisons including Quarter 2 2020.

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. 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

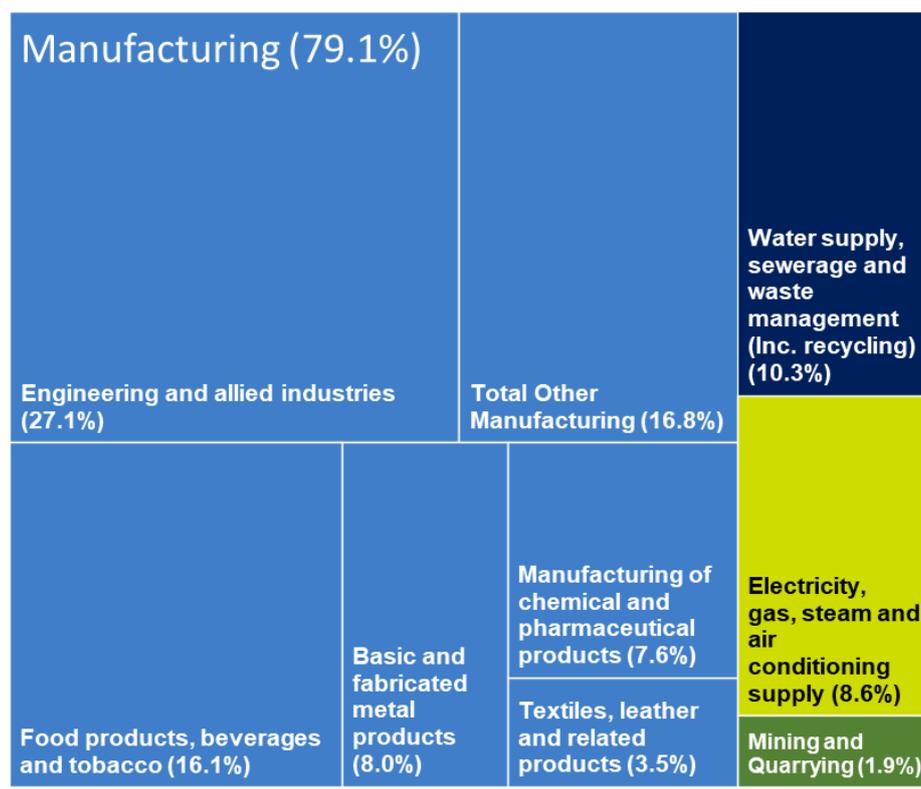
Output: Turnover, defined as the value of total sales generated from all NI based activity, excluding VAT. Turnover is rounded to the nearest thousand and is then deflated and seasonally adjusted. This turnover is then converted into an index value, which is a convenient form of expressing a series in 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 increases of 1.1% over the quarter, 2.2% over the year and 8.7% on a rolling four quarters basis.
- All four of the main sectors have reported increases over the quarter: Manufacturing (0.2%); Water supply, sewerage and waste management (Inc. recycling) (5.9%); Electricity, gas, steam and air conditioning supply (5.4%) and Mining and quarrying (1.9%).
- The annual increase in NI production output of 2.2% was driven by increases in three of the four main sectors: Water supply, sewerage and waste management (Inc. recycling) (17.6%); Electricity, gas, steam and air conditioning supply (7.5%) and Mining and quarrying (25.8%). This was partially offset by a decrease in Manufacturing (0.5%).
- The NI IOP is 3.5% above the pre-pandemic level seen in Quarter 4 2019, while the UK is 3.5% below the Quarter 4 2019 level.

The Production sector is dominated by Manufacturing, which accounts for approximately 79.1% of total production Gross Value Added (GVA) at 2019 prices.

Figure 2.1 IOP sector split (based on 2019 GVA)



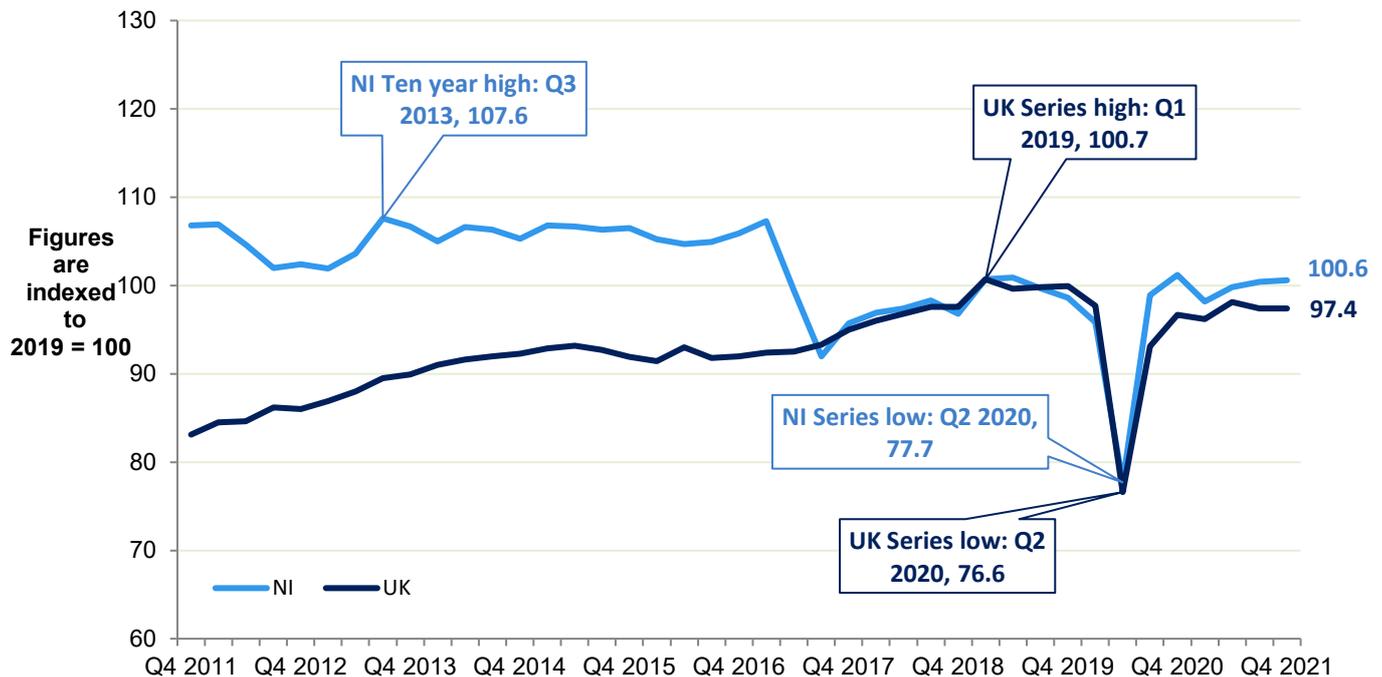
2.2 Manufacturing

Manufacturing sector (SIC07 Section C) - (weight = 79.1% 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 an increase of 0.2% over the quarter, a decrease of 0.5% over the year and an increase of 6.8% on a rolling four quarters basis.
- The UK seasonally adjusted figures show no change (0.0%) over the quarter and increases of 0.7% over the year and 6.9% on a rolling four quarters basis.
- NI output is 6.5% below the highest point recorded (Quarter 3 2013) over the last ten years.
- NI output is 29.5% above the series low recorded in Quarter 2 2020.
- Within manufacturing, five of the six broad subsectors (as shown in Figure 3.1) have increased over the quarter (See Section 3, page 12).

Figure 2.2 Manufacturing sector, NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

The NI index has generally been outperforming the UK in the Manufacturing sector, with both NI and UK indices following a similar trend since Quarter 3 2017. In Quarter 4 2021 NI Manufacturing was 2.0% above the pre-pandemic level seen in Quarter 4 2019 while UK Manufacturing was 2.5% below this level.

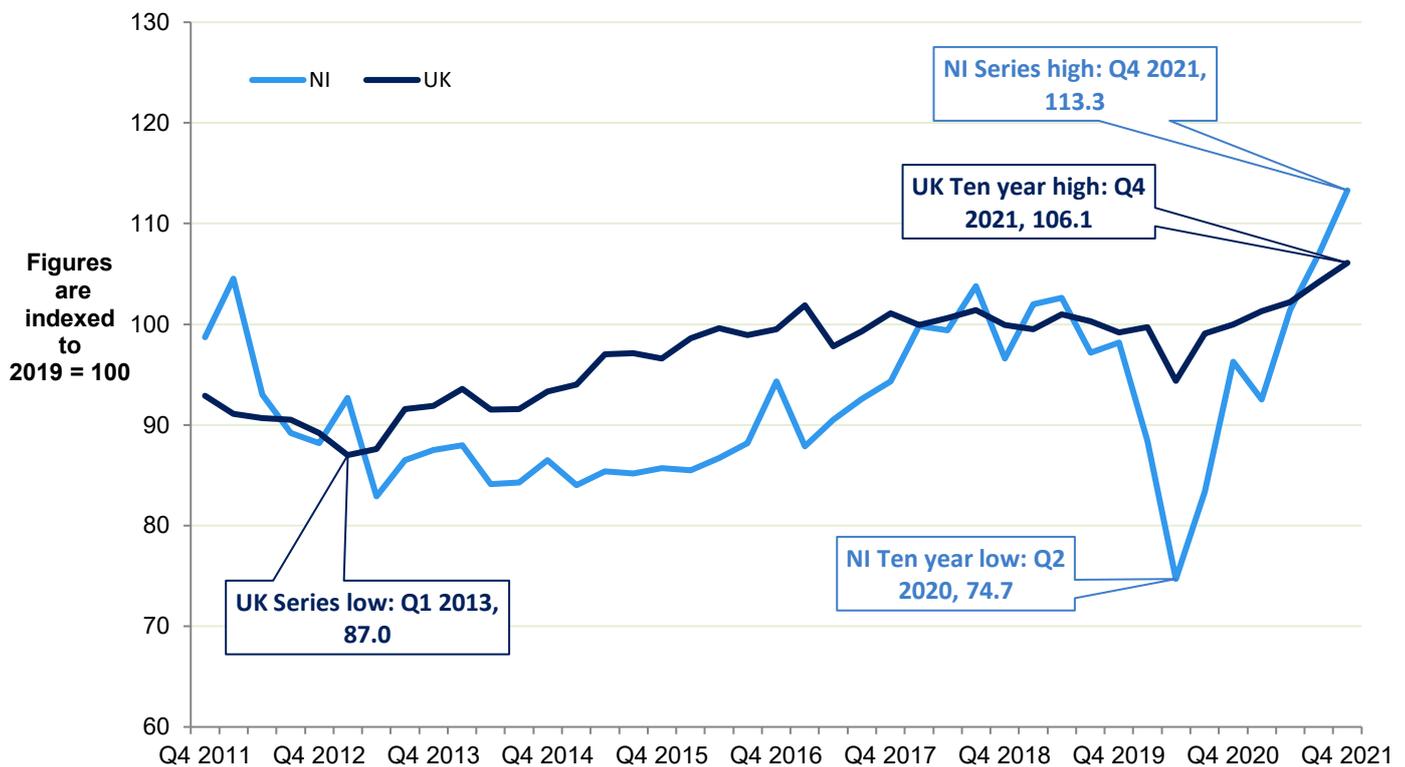
2.3 Water supply, sewerage and waste management (Inc. recycling)

Water supply, sewerage, and waste management (Inc. recycling) (SIC07 Section E) (weight = 10.3% 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 5.9% over the quarter, 17.6% over the year and 20.8% on a rolling four quarters basis. NI output has reached a series high in this sector.
- The UK reports increases of 1.8% over the quarter, 6.1% over the year and 5.2% on a rolling four quarters basis. The UK has reached a ten year high in this sector.
- NI output is 51.7% above the ten year low recorded in Quarter 2 2020 and is 65.5% above the series low recorded in Quarter 3 2005.

Figure 2.3 Water supply, sewerage and waste management (Inc. recycling), NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

The UK index has generally been outperforming the NI index in this sector since Quarter 2 2013. NI output saw a substantially larger decrease in 2020 than UK output, but has grown in recent quarters to reach a series high in Quarter 4 2021. UK output has continued to grow in recent quarters, reaching a ten year high in Quarter 4 2021. In NI this sector is 15.4% above pre-pandemic levels of Quarter 4 2019 and in the UK it is 7.0% above Quarter 4 2019.

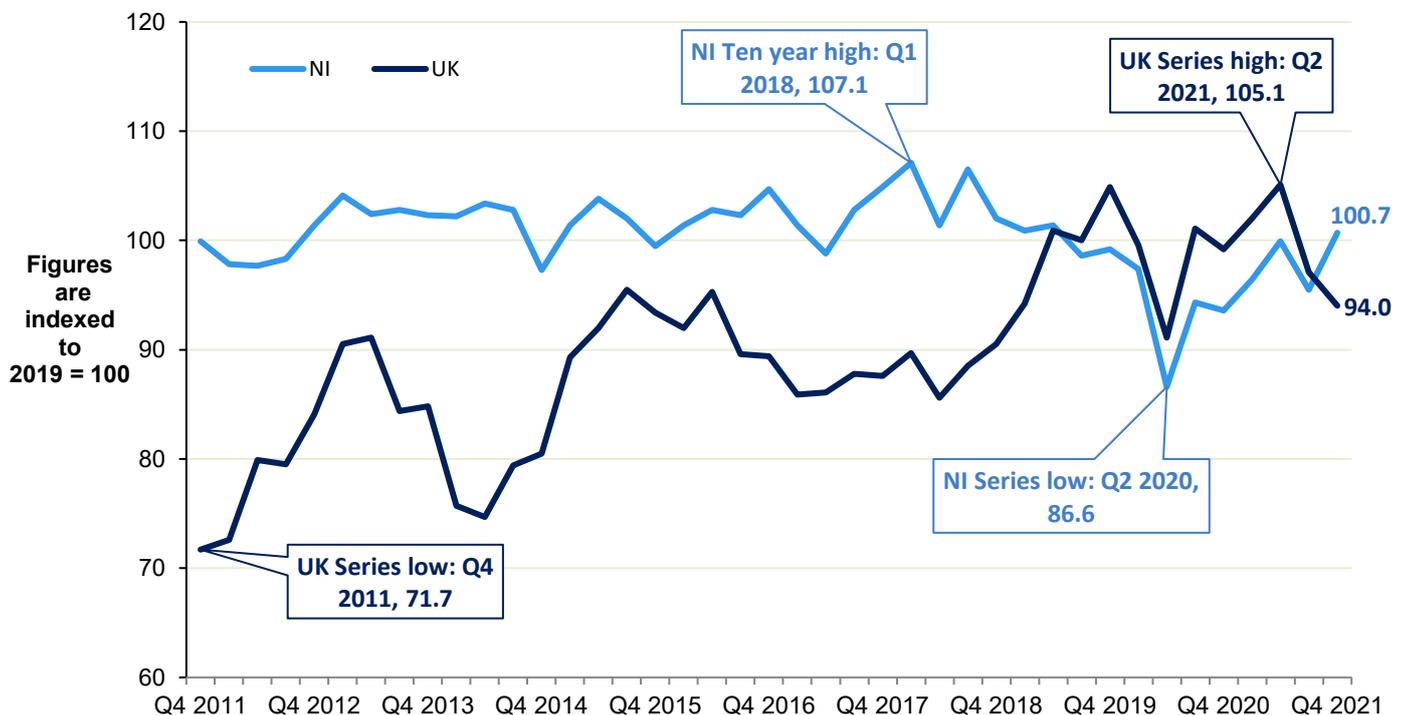
2.4 Electricity, gas, steam and air conditioning supply

Electricity, gas, steam and air conditioning supply (SIC07 Section D) (weight = 8.6% 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 increases of 5.4% over the quarter, 7.5% over the year and 5.5% on a rolling four quarters basis.
- The seasonally adjusted figures for the UK show decreases of 3.2% over the quarter, 5.2% over the year and an increase of 1.8% on a rolling four quarters basis.
- The NI estimate is 7.5% below the series high recorded in Quarter 1 2018 and 6.0% below the ten year high recorded in Quarter 1 2018.
- NI output is 16.3% above the series low recorded in Quarter 2 2020.

Figure 2.4 Electricity, gas, steam and air conditioning supply, NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

The NI index remained relatively stable between Quarter 4 2011 and Quarter 2 2019 while, during the same period, the UK index saw an upward trend. The NI index has generally outperformed the UK index in this sector with the exception of the period between Quarter 2 2019 until Quarter 4 2021. NI output saw a more substantial decrease in early 2020 than the UK index. In NI, this sector is 1.5% above the pre-pandemic levels of Quarter 4 2019, while in the UK this sector remains 10.4% below Quarter 4 2019.

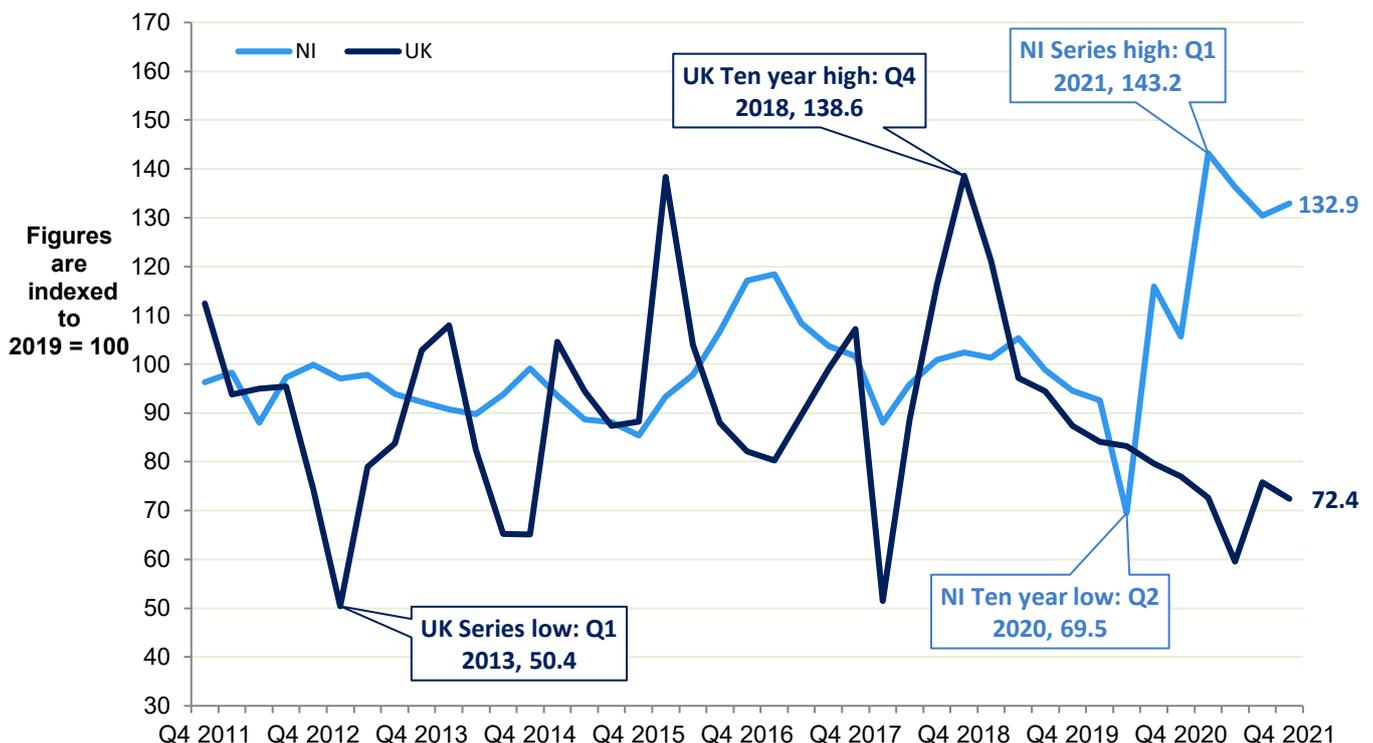
2.5 Mining and quarrying

Mining and quarrying (SIC07 Section B) (weight = 1.9% 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 increases of 1.9% over the quarter, 25.8% over the year and 41.4% on a rolling four quarters basis.
- The UK seasonally adjusted figures show decreases of 4.5% over the quarter, 6.0% over the year and 13.4% on a rolling four quarters basis.
- NI output is 7.2% below the series high recorded in Quarter 1 2021.
- NI output is 91.3% above its ten year low (Quarter 2 2020) and 95.6% above the series low (Quarter 1 2005).

Figure 2.5 Mining and quarrying, NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 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 40.5% above the pre-pandemic levels reported in Quarter 4 2019, whereas in the UK this sector is 17.1% below Quarter 4 2019.

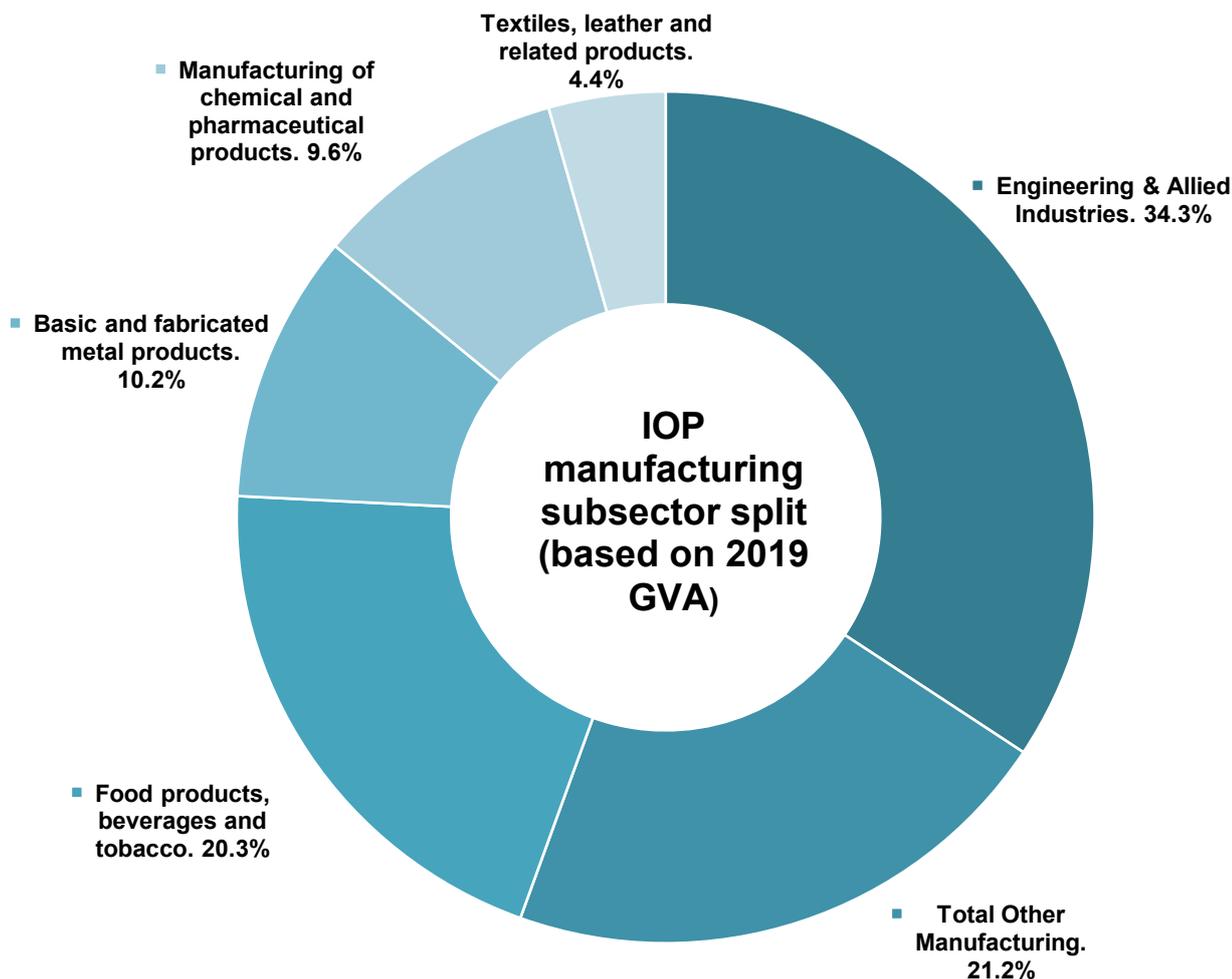
3 Manufacturing subsectors

Key findings

- The quarterly increase in Manufacturing output (0.2%) was driven by increases in five of the six main subsectors: Basic metals and fabricated metal products (1.9%); Total other manufacturing (1.6%); Manufacture of textiles, leather and related products (1.2%); Manufacture of chemical and pharmaceutical products (0.7%) and Engineering and allied industries (0.6%).
- This increase is partially offset by a decrease in the Food products, beverages and tobacco (0.7%) subsector.
- Over the year the decrease in Manufacturing (0.5%) was driven by decreases in two of the six main subsectors: Manufacture of chemical and pharmaceutical products (21.1%) and Engineering and allied industries (4.7%).
- These decreases were partially offset by increases in the Total other manufacturing (13.2%); Food products, beverages and tobacco (4.6%); Basic metals and fabricated metal products (4.0%) and Manufacture of textiles, leather and related products (2.6%) subsectors.

Almost a third of the Manufacturing sector is made up by the Engineering & Allied Industries subsector, which accounts for 34.3% of total Manufacturing production Gross Value Added (GVA) at 2019 prices.

Figure 3.1 Manufacturing subsector split (based on 2019 GVA)

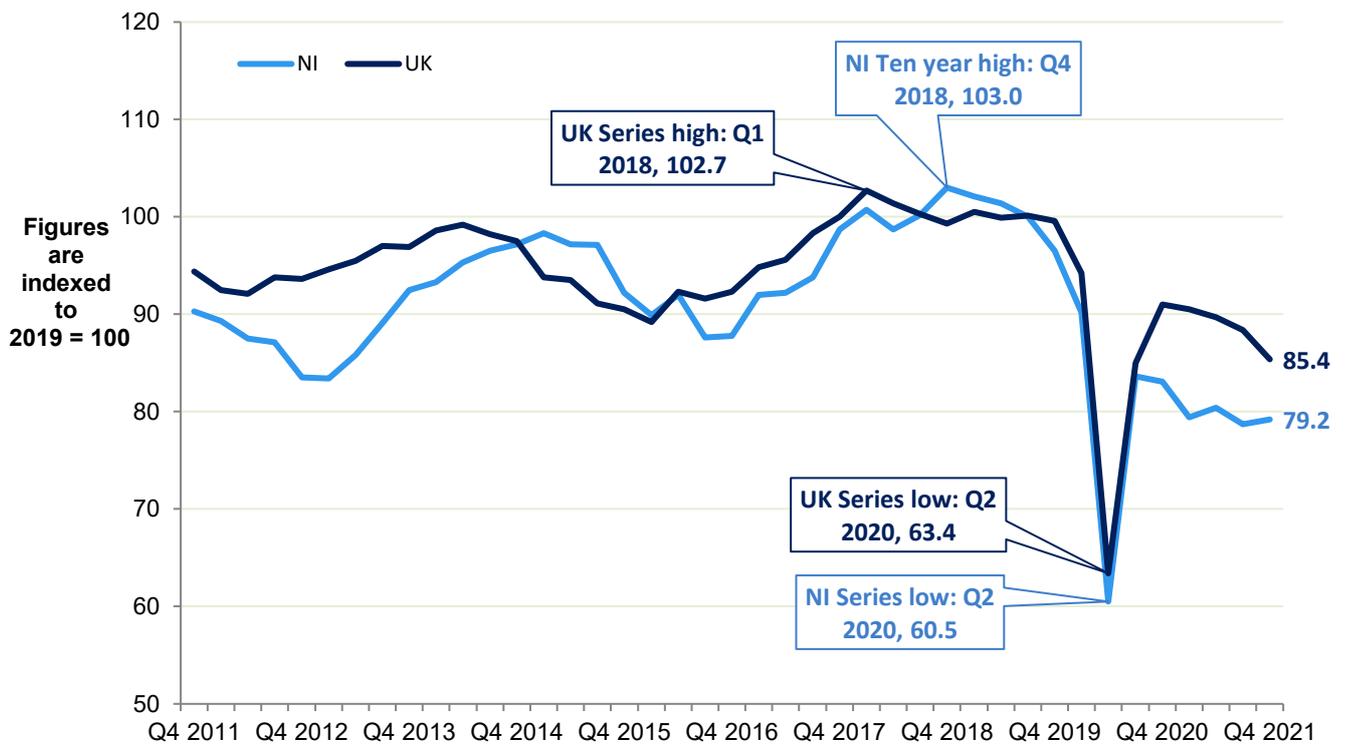


3.2 Engineering and allied industries (weight=27.1% of IOP, 34.3% of Manufacturing)²

Key findings

- NI seasonally adjusted figures show an increase over the quarter (0.6%), a decrease over the year (4.7%) and an increase on a rolling four quarters basis (0.1%).
- The UK estimate shows decreases of 3.4% over the quarter, 6.2% over the year and an increase of 6.1% on a rolling four quarters basis.
- NI output is 31.0% above its series low (Quarter 2 2020).
- NI output is 23.1% below its ten year high (Quarter 4 2018).

Figure 3.2 Engineering and allied industries NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

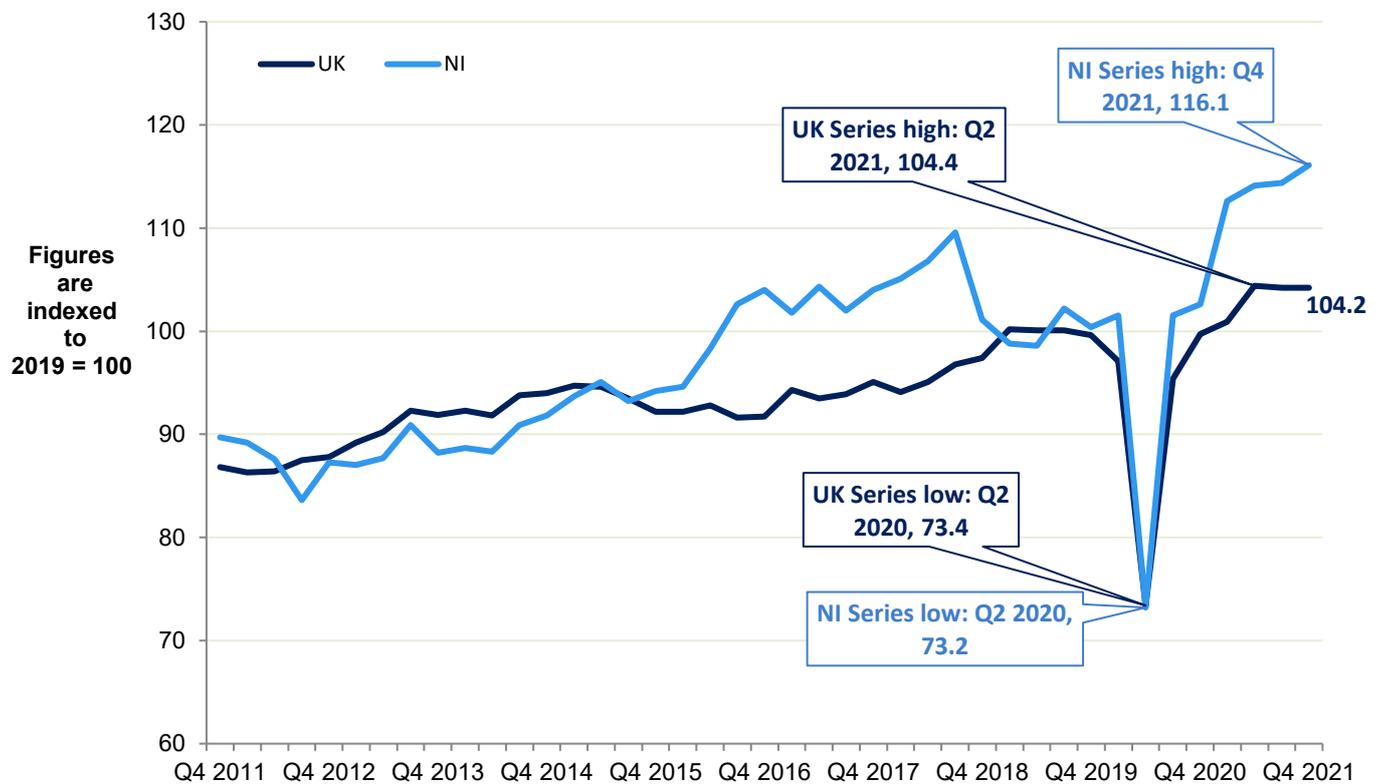
² Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

3.3 Total Other Manufacturing (weight=16.8% of IOP, 21.2% of Manufacturing)³

Key findings

- Seasonally adjusted figures show increases of 1.6% over the quarter, 13.2% over the year and 20.7% on a rolling four quarters basis. NI output has reached a series high in this subsector.
- The UK reported no change over the quarter (0.0%), and increases over the year (4.5%) and on a rolling four quarters basis (13.2%).
- NI output is 58.7% above its series low (Quarter 2 2020).

Figure 3.3 Total Other Manufacturing, NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

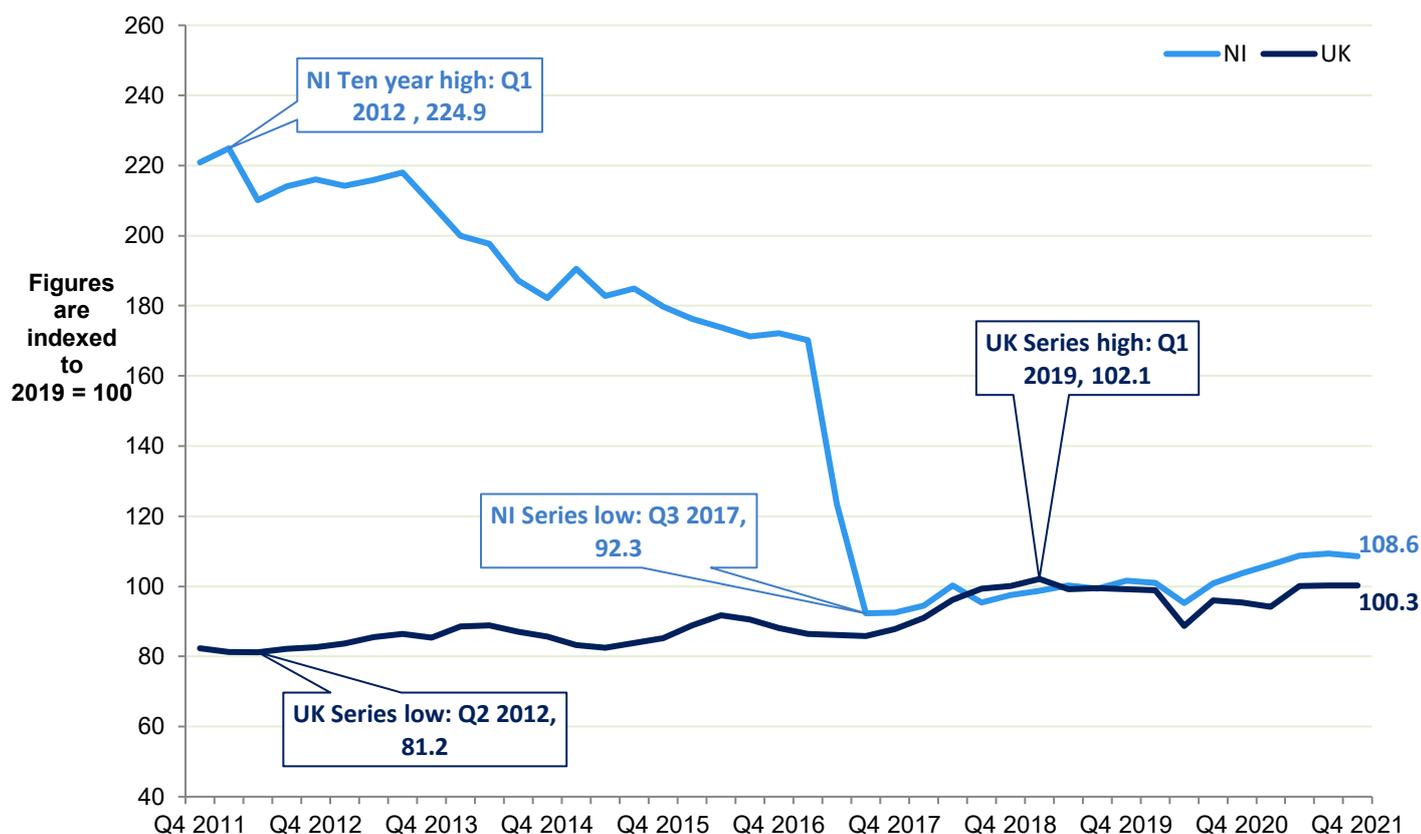
³ Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

3.4 Food products, beverages and tobacco (weight=16.1% of IOP, 20.3% of Manufacturing)⁴

Key findings

- NI output decreased by 0.7% over the quarter, increased by 4.6% over the year and 8.0% on a rolling four quarters basis.
- The UK increased by 0.1% over the quarter, 5.1% over the year and 4.2% on a rolling four quarters basis.
- NI output is estimated to be 17.7% above the series low (Quarter 3 2017).
- NI output remains 51.7% below its ten year high (Quarter 1 2012).

Figure 3.4 Food products, beverages and tobacco, NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

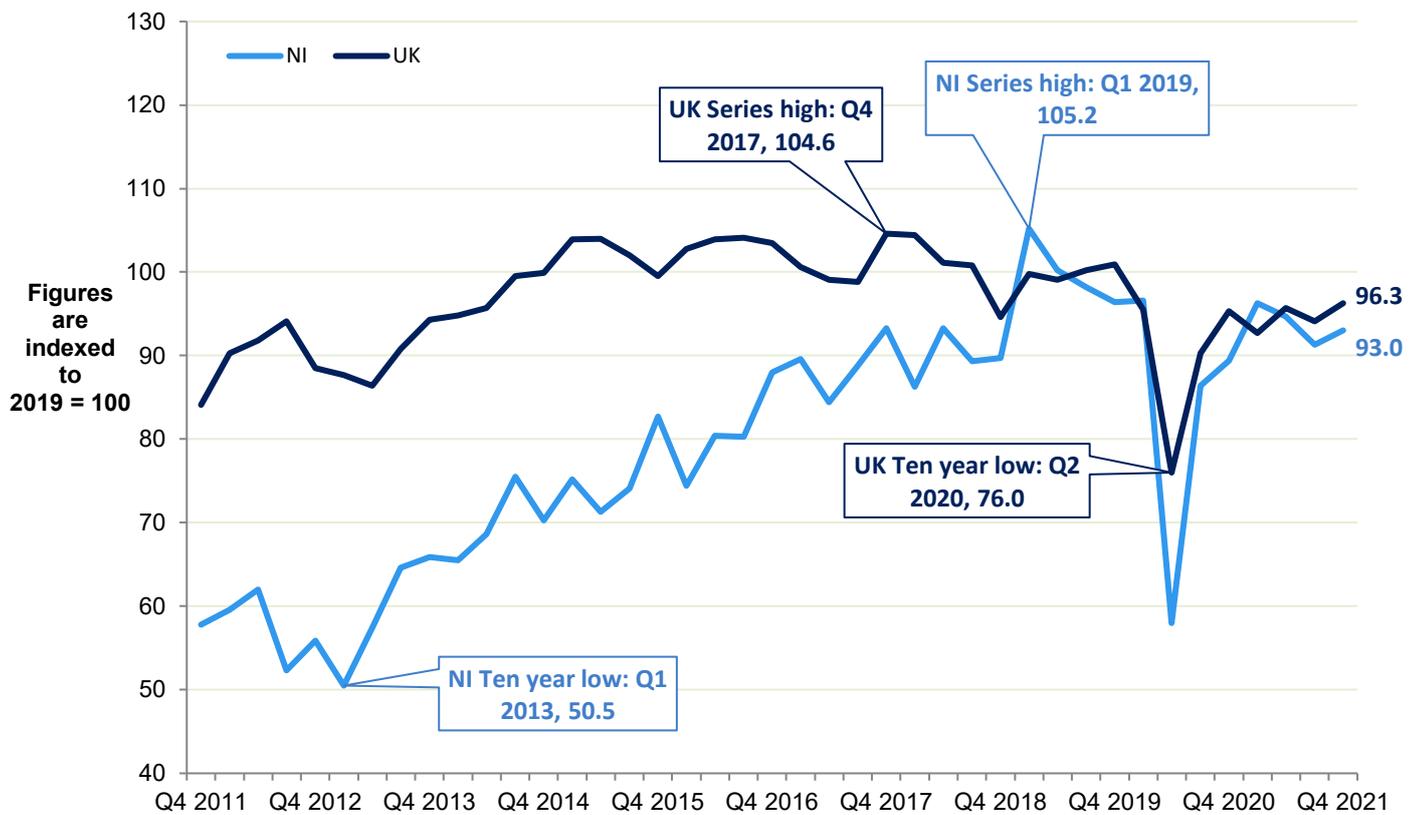
⁴ Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

3.5 Basic and fabricated metal products (weight=8.0% of IOP, 10.2% of Manufacturing)⁵

Key findings

- The NI seasonally adjusted figures show increases of 1.9% over the quarter, 4.0% over the year and 13.6% on a rolling four quarters basis.
- UK seasonally adjusted figures show increases of 2.3% over the quarter, 1.0% over the year and 6.1% on a rolling four quarters basis.
- NI output is 11.6% below its peak (Quarter 1 2019).
- NI output is 84.1% above the ten year low (Quarter 1 2013).

Figure 3.5 Basic and fabricated metal products, NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

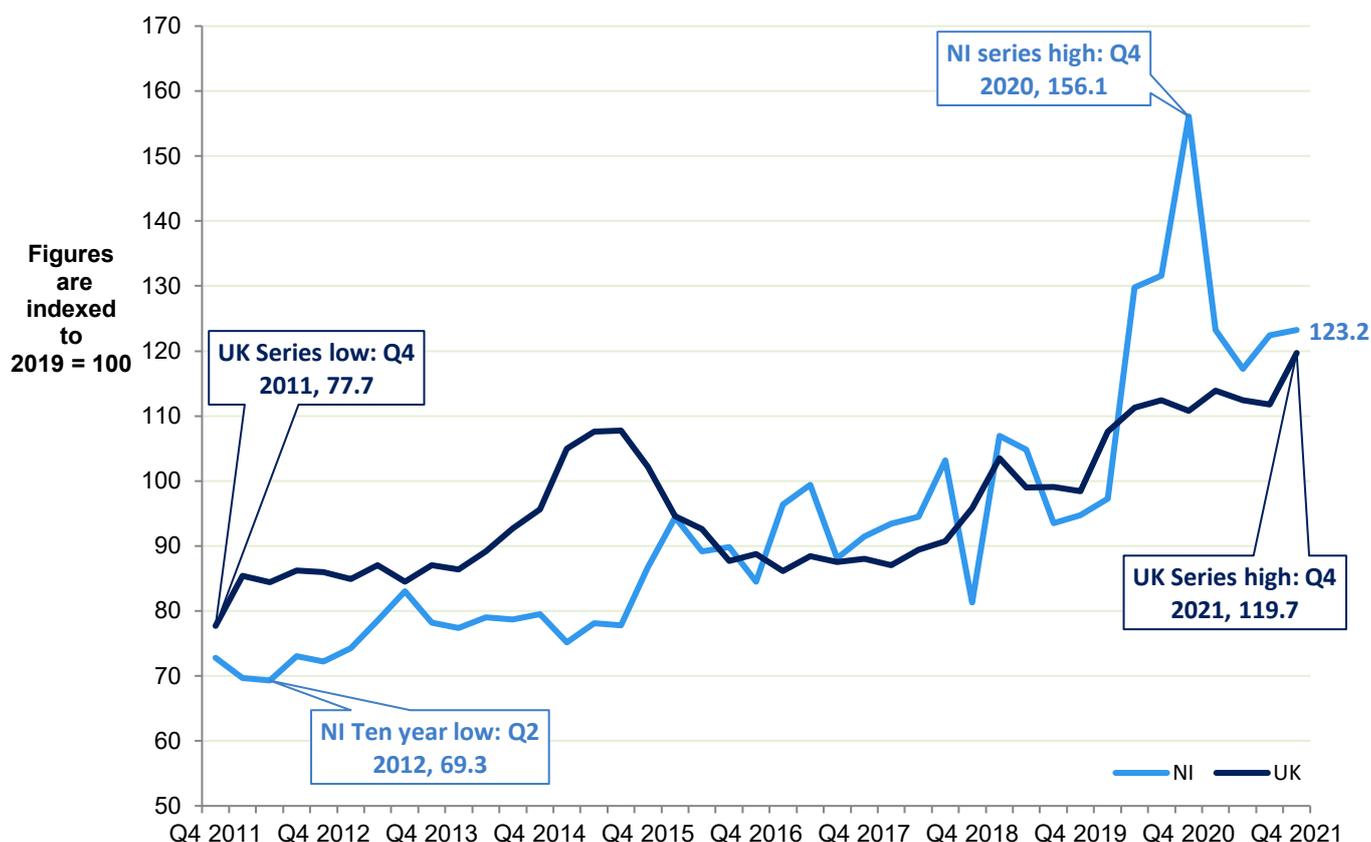
⁵ Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

3.6 Manufacturing of chemical and pharmaceutical products (weight=7.6% of IOP, 9.7% of Manufacturing)⁶

Key findings

- The NI seasonally adjusted figures have increased by 0.7% over the quarter, decreased by 21.1% over the year and decreased by 5.6% on a rolling four quarters basis.
- The UK figures show increases of 7.1% over the quarter, 8.0% over the year and 3.6% on a rolling four quarters basis. The UK has reached a series high in this subsector.
- NI output is 21.1% below its series high (Quarter 4 2020).
- NI output is 77.9% above the ten year low point (Quarter 2 2012).

Figure 3.6 Manufacturing of chemical and pharmaceutical products, NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

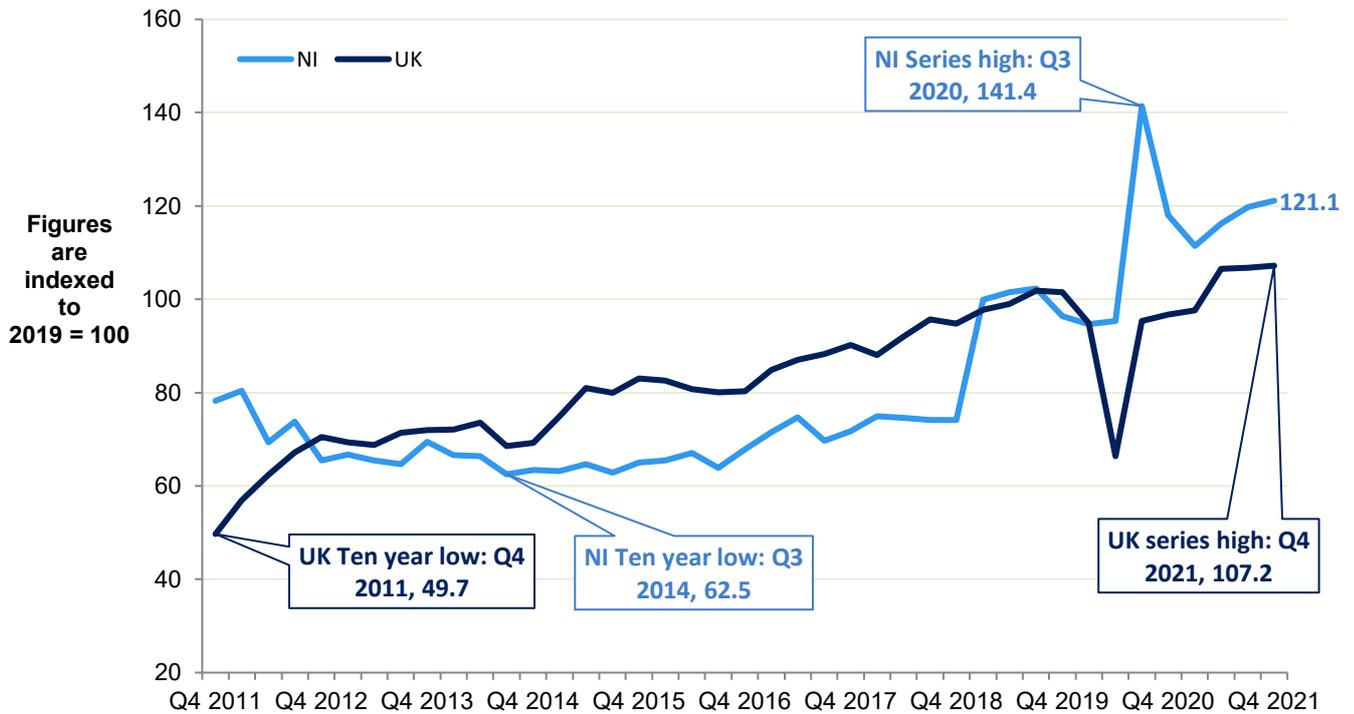
⁶ Please note that estimates at subsector level can fluctuate due to sampling variability and also due to businesses moving industrial classification.

3.7 Textiles, leather and related products (weight=3.5% of IOP, 4.4% of Manufacturing)⁷

Key findings

- The NI seasonally adjusted figures show increases over the quarter (1.2%), over the year (2.6%) and on a rolling four quarters basis (4.2%).
- UK seasonally adjusted figures show increases over the quarter (0.4%), over the year (10.9%) and on a rolling four quarters basis (18.3%). The UK has reached a series high in this subsector.
- NI output is 14.3% below its series high (Quarter 3 2020).
- NI output is 93.8% above the ten year low (Quarter 3 2014).

Figure 3.7 Textiles, leather and related products, NI & UK, Q4 2011 – Q4 2021



[Download Q4-21 Data](#)

⁷ 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 Manufacturing⁸

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

This section summarises any notable trends in these manufacturing sectors.

The following subsectors are at a series high:

- Other manufacturing ([Table 5.4](#)). This subsector has reported increases in five of the last six quarters.

⁸ 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% 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.

The following provides an overview of the IOP coverage response rates for 2019 and 2020 compared to Quarter 4 2021:

Table 1: Coverage response rates

	Quarter 4 2021	2020 (median*)	2019 (median*)
Coverage response rate (returned turnover)	68%	60%	80%

*median value achieved at IOP database closure of quarters 1 to 4 2019 and 2020

Coronavirus has resulted in a decrease in coverage response rates in Quarter 4 2021 when compared to 2019 figures, primarily due to the restrictions in place for businesses. As a result, the estimates for Quarter 4 2021 may be subject to higher revisions than normal over the coming quarters. Comparisons of provisional Quarter 4 2021 estimates at lower industry levels in particular should be treated with caution.

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](#). Figures in this publication are weighted using 2019 GVA which became available on 26 May 2021.

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 8 March 2022.

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. This improves the reliability of results. Further details on [this review and other methodological changes](#) implemented in June 2021 are available on the NISRA website.

Table 2: Changes to recent releases

Quarter	Change	Detail
Quarter 2 2018	NI Index Rebased to 2016	Figures rebased to 2016 = 100 in line with ONS.
Quarter 4 2018	NI Index of Manufacturing Productivity removed from the Index of Production report.	We are currently reviewing the methodology as part of a wider review of productivity.
Quarter 1 2019	Seasonal Adjustment Review	Following the seasonal adjustment review conducted in November 2018 changes have been made to some regressors and models used to seasonally adjust (where applicable) time series using X13 ARIMA SEATS.
Quarter 4 2019	2018 GVA	Figures in this publication are weighted using 2018 GVA which became available on 19th December 2019.
Quarter 3 2020	ONS Deflation Methodology Change	As recommended by Eurostat, previous method of rebasing for price statistics was changed to an annual chain-linked business price methodology .
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 Quarter 3 2020 Rebasing Notice .
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 26th 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 Quarter 3 2021 Rebasing Notice .
Quarter 3 2021	Double deflation methods and deflator improvements	The UK National Accounts Blue Book 2021 was published on 29th October 2021. This introduced a number of improvements to methods, including implementing double deflation using Supply and Use Tables (SUTs). Double deflation is recognised as the best approach for producing volume estimates

Quarter**Change****Detail**

of GVA. These changes may result in some revisions to the backseries data. These changes are part of the wider [development plan](#) for UK Economic Accounts.

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

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