



# Energy

**in Northern Ireland**

**QUALITY  
REPORT  
2022**



# Background Quality Report for Energy in Northern Ireland 2022

## Background

During 2014, and following agreement with officials in the Energy Division of the Department of Enterprise, Trade and Investment (now the Department for the Economy), statisticians within the Analytical Services Unit began the development of a new statistical report intended to provide a comprehensive and accessible overview of key statistics and information relating to energy in Northern Ireland.

The potential of such a development was acknowledged specifically given the complexity of energy as a policy area and an acknowledgement that by bringing a disparate range of existing and emerging information and statistics into a single coherent source would add considerable value. A similar development had been completed and published by the Scottish Government in 2014 which provided an exemplar in terms of a potential approach.

The broad development of the report included: identifying and reviewing a range of potential sources of statistics, data and information in relation to energy in Northern Ireland; querying and clarifying any data or information issues raised; actively supporting emerging information-critical UK survey and administrative sources in terms of implementation and coverage in Northern Ireland; and developing the statistical report working with key stakeholders and data providers. That development work has continued over time and is reflected in the content.

The majority of statistics and data included are National Statistics or Official Statistics sourced from producers such as the Department for Business, Energy and Industrial Strategy (BEIS), the Northern Ireland Statistics and Research Agency (NISRA) and the Office for National Statistics (ONS) among others.

The publication is structured around 6 chapters including:

- Northern Ireland energy in context
- Energy and the economy
- Electricity
- Renewable electricity
- Total energy consumption
- Energy and the consumer

The current 2022 report is the fourth iteration of the report with previous versions published in 2020, 2018 and 2016. As there are numerous data sources referenced throughout the report, and that the report acts as a source for signposting, further information regarding the quality of these sources can be found in Annex A.



## Relevance

There are a wide variety of stakeholders and users of this information in particular: Departmental officials within DfE generally and within Energy Group in particular; elected representatives; academics; the general public; statisticians within BEIS, NISRA, ONS and the Devolved Administrations; NIE Electricity Networks; SONI; Eirgrid; and the Utility Regulator. In the original development of the first report, an early stage draft was made available for comment and input by a range of key stakeholders with expertise in energy and energy statistics.

There is evidence both from web trends analysis, previous user feedback from correspondence and comments received from responses to the user consultation conducted, that the Energy in Northern Ireland report is regularly used by those with an interest in energy in Northern Ireland.

## Accuracy and Reliability

The majority of statistics and data included within the report are National Statistics or Official Statistics sourced from producers such as the Department for Business, Energy and Industrial Strategy (BEIS), the Northern Ireland Statistics and Research Agency (NISRA) and the Office for National Statistics (ONS) among others.

## Timeliness and Punctuality

The report is currently updated in full every two years.

The data presented in the report is the most up-to-date available at the time of publication. For the 2022 report and, where possible, data for 2020 or 2021 has been used although some data relates to earlier periods. All web links to sources, reports, datasets etc. referenced in the report were accurate as at time of publication.

## Accessibility and Clarity

The report can be accessed online in ODF format.

## Coherence and Comparability

A large amount of data in the report comes from UK-wide publications which means that the figures are often comparable to UK and UK regional data as well as being comparable to the Republic of Ireland and the EU. This is useful in providing a wider contextual basis for the picture of energy in Northern Ireland as rehearsed in the report.



## Annex A

The data, statistics and information referenced in the Energy in Northern Ireland 2022 report and the associated quality information has been presented below in the order that it appears in the main body of the report. If a source is used in more than one place it will be considered here in the first place it is found only.

Further information on the different types of Official Statistics can be found here:

[Types of official statistics – UK Statistics Authority](#)

Chapter 1:  
**Northern Ireland Energy  
in Context**



# Chapter 1: Northern Ireland Energy in Context

## Geography

### Data:

**The Countries of the UK**

Not an Official Statistic

### Source:

[Office for National Statistics.](#)

### Description:

The top-level division of administrative geography in the UK is the 4 countries of England, Scotland, Wales and Northern Ireland.

As well as the national government at Westminster, there are also devolved administrations in Edinburgh, Cardiff and Belfast.

[\[ARCHIVED CONTENT\] The countries of the UK - ONS \(nationalarchives.gov.uk\)](#)

### Data Quality:

Office for National Statistics geographic guidance and methodology information.

### Data:

**Geography Statistics of Ireland**

Not an Official Statistic

### Source:

World Atlas.

### Description:

The data gives details of the geography statistics of Ireland.

[Ireland Maps and Facts - World Atlas](#)

### Data Quality:

World Atlas is used as a resource for educators, students, and those who are simply curious about the world around them. It presents reputable facts about the world that are from well-researched, trusted sources in a way that is free of jargon, making it accessible and easy to comprehend.



#### Data:

### Review of the statistical classification and delineation of settlements



#### Source:

Northern Ireland Statistics and Research Agency.

#### Description:

Details of the number of people that live in small/medium/large town or cities comes from the Review of the Statistical Classification and Delineation of Settlements March 2015. This review, developed by the Census office in the Northern Ireland Statistics and Research Agency, uses data from the Census 2011 to review the classification of settlements which are used by the majority of official statistics.

[Review of the Statistical Classification and Delineation of Settlements | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](https://www.nisra.gov.uk/review-of-the-statistical-classification-and-delineation-of-settlements)

#### Data Quality:

The publication is currently classified as a National Statistic which means it is assessed as fully compliant with the Code of practice for Statistics meeting the highest standards of trustworthiness, quality and value.

## Climate

#### Data:

### Northern Ireland: Climate

Not an Official Statistic

#### Source:

The Met Office.

#### Description:

Data on the Climate for this publication comes from the Met Office. The Met Office is the national meteorological service for the UK. It provides critical weather services and world-leading climate science.

[northern-ireland -climate---met-office.pdf \(metoffice.gov.uk\)](https://www.metoffice.gov.uk/northern-ireland-climate-met-office.pdf)

#### Data Quality:

Data from the Met Office is rated as the strongest of the main digital weather forecast providers in terms of consumer perceptions of accuracy, with a Consumer Accuracy Index of 76.4 for first and second providers, compared to an average of 73.9 for the other digital brands surveyed. (Independent research from Walnut Unlimited, Perceptions of Accuracy, October 2018, monitored quarterly).

It has been independently verified that the Met Office provides highly accurate forecasts for the UK that are more accurate than other providers in a June 2016 [accuracy comparison study](#), which compared forecast to actual values at 122 UK stations over a rolling 36-month period. The data was provided by Climendo and verified internally using an independently scrutinised verification process.

Links to the accuracy document can be found at:

[Accuracy and trust - Met Office](#)



## Population

### Data:

#### Population estimates, population projections and household projections for Northern Ireland



### Source:

Northern Ireland Statistics and Research Agency.

### Description:

National population projections provide an estimate of the future size and age structure of the population of Northern Ireland. Data is provided by the Northern Ireland Statistics and Research Agency (NISRA) on estimated and projected population figures and the number of households in NI.

National population projections, by age and sex, are produced every two years for the UK, and each of the UK constituent countries, by the Office for National Statistics (ONS) on behalf of the National Statistician and the Registrars General of Scotland and Northern Ireland. The current set of projections relate to a base year of mid-2020.

[2020-based Interim Population Projections for Northern Ireland | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](https://www.nisra.gov.uk/population-projections)

Household projections are calculated by applying assumptions about household formation to the most recent population projections. National population projections by age and sex are produced every two years for the UK and its constituent countries by the Office for National Statistics (ONS). Household projections are derived by using Census household data to create age-sex specific household membership rates, which are then applied to the latest population projections.

[Northern Ireland Household Projections \(2016 based\) | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](https://www.nisra.gov.uk/household-projections)

The most recent population projections are based on the mid-2020 population estimates and were published in June 2021.

[2020 Mid Year Population Estimates for Northern Ireland Statistical Bulletin Charts, Tables and Maps | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](https://www.nisra.gov.uk/population-estimates)

[Estimates of the population for the UK, England and Wales, Scotland and Northern Ireland - Office for National Statistics \(ons.gov.uk\)](https://www.ons.gov.uk/population-projections)

### Data Quality Sources:

Population estimates, population projections and household estimates are currently classified as National Statistics. These data are also subject to a rigorous validation process by the Northern Ireland Statistics and Research Agency. Data quality documentation is available at: Northern Ireland Mid-year Estimates and Projections data quality document:

[Population Estimates and Projections Data Quality Document | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](https://www.nisra.gov.uk/population-estimates-projections-data-quality)

Population Projections for the UK:

[National population projections QMI - Office for National Statistics](https://www.ons.gov.uk/population-projections)





## Transport

### Data:

#### Percentage of households with cars by income group, tenure and household composition



### Source:

Office for National Statistics.

### Description:

The information is derived from the results of the Living Costs and Food (LCF) Survey. The [Living Costs and Food Survey](#) (LCF) is an annual survey, designed primarily to measure household expenditure on goods and services. It also gathers information about the income of household members. Respondents, including children, keep a detailed diary of expenditure for 2 weeks. Respondents also record the weights and volumes of food and drink items bought.

The table referenced in the report can be found at:

[Family spending workbook 4: expenditure by household characteristic - Office for National Statistics \(ons.gov.uk\)](#)

### Data Quality Sources:

Living Costs and Food (LCF) Survey results are a National statistic, the quality report can be found at: [Living Costs and Food Survey QMI - Office for National Statistics \(ons.gov.uk\)](#)

### Data:

#### Car ownership in Northern Ireland

Official Statistic

### Source:

Central Survey Unit of the Northern Ireland Statistics and Research Agency.

### Description:

The Continuous Household Survey is designed to provide a regular source of information on a wide range of issues relevant to Northern Ireland. It has been running since 1983, with recent results covering housing characteristics, changing population, tourism, participation in sports, arts and culture and attitudes towards the environment.

[CHS Results | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](#)

### Data Quality Sources:

Details on the survey methodology can be found at:

[Continuous Household Survey | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](#)



**Data:**

**Vehicle licensing data**



**Source:**

[Department for Transport](#) and [Driver and Vehicle Licensing Agency](#).

**Description:**

Data on all licensed and registered vehicles, produced by the Department for Transport can be found here: [All vehicles \(VEH01\) - GOV.UK \(www.gov.uk\)](#)

**Data Quality Sources:**

Vehicle Licensing data is a National statistic, notes on the statistics can be found at: [Vehicle Licensing Statistics: Notes and Definitions \(publishing.service.gov.uk\)](#)

**Data:**

**Travel Survey for Northern Ireland (TSNI) in-depth report 2017-2019**



**Source:**

Department for Infrastructure, Northern Ireland Statistics and Research Agency.

**Description:**

The TSNI collects information on how and why people travel within Northern Ireland. Three years of data is combined to ensure the analysis carried out is robust. The in-depth report is produced annually and contains detailed results and trend data.

[Travel Survey for Northern Ireland in-depth report 2017-2019 | Department for Infrastructure \(infrastructure-ni.gov.uk\)](#)

**Data Quality Sources:**

The report is a National Statistic and its quality report can be found at: [Background quality report: Travel Survey for Northern Ireland | Department for Infrastructure \(infrastructure-ni.gov.uk\)](#)



**Data:**

**Travel Survey for Northern Ireland (TSNI) headline report 2020**



**Source:**

Department for Infrastructure, Northern Ireland Statistics and Research Agency.

**Description:**

The TSNI collects information on how and why people travel within Northern Ireland. The headline report is the first to be produced on an annual basis and contains the key results.

[Travel Survey for Northern Ireland \(TSNI\) headline report 2020 | Department for Infrastructure \(infrastructure-ni.gov.uk\)](https://www.infrastructure-ni.gov.uk/travel-survey-for-northern-ireland-tсни-headline-report-2020)

**Data Quality Sources:**

The report is a National Statistic and its quality report can be found at:

[Background quality report: Travel Survey for Northern Ireland | Department for Infrastructure \(infrastructure-ni.gov.uk\)](https://www.infrastructure-ni.gov.uk/background-quality-report-travel-survey-for-northern-ireland)

**Data:**

**National Travel Survey 2020**



**Source:**

Department for Transport.

**Description:**

The National Travel Survey is a household survey of personal travel by residents of England travelling within Great Britain, from data collected via interviews and a seven-day travel diary.

[National Travel Survey: 2020 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/national-travel-survey-2020)

**Data Quality Sources:**

The report is a National Statistic, the quality report can be found at:

[National Travel Survey Quality Report 2020 \(publishing.service.gov.uk\)](https://publishing.service.gov.uk/national-travel-survey-quality-report-2020)



## Housing

### Data:

#### 2016 Northern Ireland House Condition Survey (HCS)



### Source:

Northern Ireland Housing Executive.

### Description:

The 2016 HCS report, which was published in May 2018, presents a comprehensive overview of Northern Ireland's dwelling stock and its occupants in 2016, including information about fuel poverty, disrepair, Decent Homes, the Standard Assessment Procedure (SAP), the Housing Health and Safety Rating System (HHSRS), unfitnes, and household profiles.

[House Condition Survey Main Report 2016 \(nihe.gov.uk\)](https://www.nihe.gov.uk/housing/house-condition-survey-main-report-2016)

### Data Quality Sources:

The report is a National Statistic and its data quality report can be found at:  
[NIHCS BACKGROUND QUALITY REPORT \(nihe.gov.uk\)](https://www.nihe.gov.uk/housing/house-condition-survey-main-report-2016)

### Data:

#### English Housing Survey Headline report



### Source:

Ministry of Housing, Communities and Local Government.

### Description:

The English Housing Survey (EHS) is a flagship survey of the Ministry of Housing, Communities and Local Government (MHCLG). It is designed to collect information about people's housing circumstances and the energy efficiency and condition of the housing stock in England. It covers all housing tenures and provides valuable information and evidence to inform the development and monitoring of MHCLG's housing policies.

The Department for Business, Energy and Industrial Strategy (BEIS) makes an annual financial contribution to the EHS and uses the data to measure the effectiveness of its policies designed to improve the energy efficiency of English homes and to monitor fuel poverty.

[English Housing Survey 2016: energy efficiency - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/624424/English_Housing_Survey_2016_energy_efficiency.pdf)

### Data Quality Sources:

A data quality report is produced annually, the latest is available at:  
[EHS Quality Report 2017-18.pdf \(publishing.service.gov.uk\)](https://www.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/624424/English_Housing_Survey_2016_energy_efficiency.pdf)



## Economy

### Data:

#### Inter Departmental Business Register (IDBR)



### Source:

Northern Ireland Statistics and Research Agency.

### Description:

The IDBR is a comprehensive list of businesses registered for Value Added Tax (VAT) and/or operating a Pay As You Earn (PAYE) scheme in the United Kingdom. It is the main sampling frame for business surveys carried out by UK government departments including the Office for National Statistics (ONS) and the Northern Ireland Statistics and Research Agency (NISRA).

All data on the IDBR are treated as OFFICIAL SENSITIVE and are protected by the Code of Practice for Official Statistics and specific legislation.

The Northern Ireland element of the IDBR is maintained by the Economic and Labour Market Statistics Branch (ELMSB) within the Northern Ireland Statistics and Research Agency (NISRA), an agency of the Department of Finance (DoF).

[Inter Departmental Business Register | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](https://www.nisra.gov.uk)

In Chapter 2 the Number of Energy Enterprises in Northern Ireland 2010 to 2021, comes from an extract of the Inter Department Business Register and can be found on:

<https://www.nomisweb.co.uk>

### Data Quality Sources:

The two main sources of input for the IDBR are the VAT and PAYE records from Her Majesty's Revenue and Customs (HMRC). Additional input is provided by [Companies House](#) and [Dun and Bradstreet](#). The register is also updated by information received from business surveys issued by the ONS and NISRA. Industry data on the IDBR is robust however the quality is negatively impacted by non-response to the validation survey and delay between registration and validation. The timeliness of employment figures for an individual business are dependent on inclusion in the Business Register and Employment Survey (BRES).

A data quality report can be found at:

[UK business: activity, size and location QMI - Office for National Statistics \(ons.gov.uk\)](https://www.ons.gov.uk)



#### Data:

### UK business; activity, size and location: 2021



#### Source:

Office for National Statistics.

#### Description:

UK business; activity, size and location, 2021 is produced from an extract taken from the Inter-Departmental Business Register (IDBR) recording the position of businesses.

[UK business; activity, size and location - Office for National Statistics \(ons.gov.uk\)](https://ons.gov.uk)

#### Data Quality Sources:

This is a National Statistic, its data quality report can be found at:

[UK business; activity, size and location QMI - Office for National Statistics \(ons.gov.uk\)](https://ons.gov.uk)

#### Data:

### Regional economic activity by gross domestic product, UK: 1998 to 2019



#### Source:

Office for National Statistics.

#### Description:

Annual estimates of economic activity by UK country, region and local area using gross domestic product (GDP).

[Regional economic activity by gross domestic product, UK - Office for National Statistics \(ons.gov.uk\)](https://ons.gov.uk)

#### Data Quality Sources:

This report is a National Statistic and its quality document can be found at:

[Regional gross disposable household income QMI - Office for National Statistics \(ons.gov.uk\)](https://ons.gov.uk)

Chapter 2:  
**Energy and the Economy**



## Chapter 2: Energy and the Economy

### Data:

**Low carbon and renewable energy economy survey (LCRE) UK: 2020**

Official Statistic

### Source:

Office for National Statistics.

### Description:

The figures in this bulletin are survey-based estimates. The low carbon economy is defined as economic activities that deliver goods and services that generate significantly lower emissions of greenhouse gases; predominantly carbon dioxide.

The Low Carbon and Renewable Energy Economy (LCREE) Survey was designed to provide greater detail on the low carbon and renewable energy economy in the UK.

[Low carbon and renewable energy economy, UK - Office for National Statistics \(ons.gov.uk\)](https://www.ons.gov.uk/economy/green-economy/low-carbon-and-renewable-energy-economy)

[Direct activity in the Low Carbon and Renewable Energy Economy \(LCREE\) by business activity type, UK: 2020 - Office for National Statistics \(ons.gov.uk\)](https://www.ons.gov.uk/economy/green-economy/low-carbon-and-renewable-energy-economy)

[All data related to Low carbon and renewable energy economy, UK: 2020 - Office for National Statistics \(ons.gov.uk\)](https://www.ons.gov.uk/economy/green-economy/low-carbon-and-renewable-energy-economy)

### Data Quality Sources:

The LCRE is an Official statistic, its quality document can be found at:

[Low Carbon and Renewable Energy Economy \(LCREE\) Survey QMI - Office for National Statistics \(ons.gov.uk\)](https://www.ons.gov.uk/economy/green-economy/low-carbon-and-renewable-energy-economy)

### Data:

**Business Register and Employment Survey (BRES)**



### Source:

Office for National Statistics.

### Description:

This bulletin summarises findings from the Northern Ireland Business Register and Employment Survey (BRES). The data can be found at:

[BRES Publications and Tables 2019 | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](https://www.nisra.gov.uk/publications-and-tables)

Figures for GB, England, Scotland and Wales can be found at:

[Nomis - Official Labour Market Statistics \(nomisweb.co.uk\)](https://www.nomisweb.co.uk/)

### Data Quality Sources:

This data is a National Statistic, its quality document can be found at:

<https://www.ons.gov.uk/employmentandlabourmarket/peopleinwork/employmentandemployeetypes/methodologies/businessregisteremploymentsurveybresqmi>





**Data:**

**Northern Ireland Annual Business Inquiry (NIABI)**



**Source:**

Northern Ireland Statistics and Research Agency.

**Description:**

The NIABI is a key resource for measuring the size, performance and structure of the Northern Ireland non-financial business economy. It is a survey of businesses covering the Production, Construction, Distribution and Service industries and covers roughly two thirds of the total NI economy. Public sector bodies are excluded from the survey.

<https://www.nisra.gov.uk/statistics/business-statistics/annual-business-inquiry>

<https://www.nisra.gov.uk/statistics/annual-business-inquiry/abi-sample-coverage>

**Data Quality Sources:**

This data is a National Statistic, its quality document can be found at:

<https://www.nisra.gov.uk/publications/usage-methods-and-quality-and-revisions-policy-abi>

**Data:**

**Annual Business Survey (ABS)**



**Source:**

Office for National Statistics.

**Description:**

The ABS is a key resource for measuring the size, performance and structure of the United Kingdom non-financial business economy. It is an annual survey of businesses covering the production, construction, distribution and service industries, which represent approximately two-thirds of the UK economy, by gross value added (GVA).

[Non-financial business economy, UK: Sections A to S - Office for National Statistics](#)

**Data Quality Sources:**

This data is a National Statistic, its quality document can be found at:

[Annual Business Survey QMI - Office for National Statistics \(ons.gov.uk\)](#)

# Chapter 3: **Electricity**



## Chapter 3: Electricity

### Data:

#### Digest of United Kingdom Energy Statistics (DUKES) 2021



### Source:

Department for Business, Energy and Industrial Strategy.

### Description:

The Digest of United Kingdom Energy Statistics 2021 (DUKES) is compiled by the Department for Business, Energy and Industrial Strategy it provides a comprehensive account of energy supply and demand in the United Kingdom.

This section uses data from Chapter 5 of DUKES on Electricity which can be found at:

[Digest of UK Energy Statistics \(DUKES\): electricity - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/statistics/digest-of-uk-energy-statistics-dukess-electricity)

Data from the following article which comes from the DUKES report is also included in this section:

[Regional Electricity Generation and Supply 2016-2020 \(publishing.service.gov.uk\)](https://publishing.service.gov.uk/government/articles/2020/07/23/regional-electricity-generation-and-supply-2016-2020)

Data from Chapter 6 page 43 of the DUKES on Renewable sources of energy is used in Chapter 4.

[Digest of UK Energy Statistics \(DUKES\) 2021 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/statistics/digest-of-uk-energy-statistics-dukess-2021)

### Data Quality Sources:

This is a National Statistic, its quality report can be found at:

[Electricity statistics methodology note \(publishing.service.gov.uk\)](https://publishing.service.gov.uk/government/statistics/electricity-statistics-methodology-note)

### Data:

#### System and Renewable data Summary Report

Not an Official Statistic

### Source:

EIRGRID Group.

### Description:

The electricity system on the island of Ireland is undergoing a transformation as a result of the growing integration of renewable energy and the implementation of broader technological innovation. The electricity sector will play a key role in shaping a sustainable energy future for Ireland and Northern Ireland. EirGrid Group is developing many of the necessary infrastructural and operational requirements to facilitate this shift across the island. As the Transmission System Operators, EirGrid and SONI are responsible for managing electricity supply and demand in real-time and controlling flows of power on the island's transmission systems. A summary report of the system and renewable energy can be found here:

<http://www.eirgridgroup.com/site-files/library/EirGrid/System-and-Renewable-Data-Summary-Report.xlsx>

### Data Quality Sources:

Not available.



**Data:**

**Trading across the Moyle Interconnector**

Not an Official Statistic

**Source:**

Mutual Energy.

**Description:**

The Moyle Interconnector is a High Voltage Direct Current (HVDC) connection between Northern Ireland and Scotland. It is made up of two 250MW cables and can operate in either direction, providing a total connection of 500MW between the all-island Single Electricity Market and the GB market.

[Electricity - Mutual Energy \(mutual-energy.com\)](https://mutual-energy.com)

**Data Quality Sources:**

Not available.

**Data:**

**Cross Border Interconnection**

Not an Official Statistic

**Source:**

Department for the Economy.

**Description:**

Information on electricity interconnectors linking the NI grid and the ROI grid.

[Cross-border interconnection | Department for the Economy \(economy-ni.gov.uk\)](https://economy-ni.gov.uk)

**Data Quality Sources:**

Not available.



**Data:**

**Quick Guide to the I-SEM**

Not an Official Statistic

**Source:**

Single Electricity Market Committee.

**Description:**

Information on the Single Electricity Market and the all-island wholesale electricity market.

[ISEM quick guide 1.pdf \(semcommittee.com\)](#)

[New all-island wholesale electricity market goes live | SEM Committee](#)

**Data Quality Sources:**

Not available.

**Data:**

**North South Interconnector**

Not an Official Statistic

**Source:**

System Operator for Northern Ireland.

**Description:**

Information on the North South Interconnector.

[The Project \(soni.ltd.uk\)](#)

**Data Quality Sources:**

Not available.



**Data:**

**Electricity Consumption and Renewable Generation Statistics**

Official Statistic

**Source:**

Department for the Economy.

**Description:**

Statistics on Electricity Consumption and Renewable Generation in Northern Ireland:

[Electricity Consumption and Renewable Generation Statistics | Department for the Economy \(economy-ni.gov.uk\)](#)

Tables from this publication are also used in Chapter 4 and can be found in the following link:

[Northern Ireland Renewable Electricity Data Tables | Department for the Economy \(economy-ni.gov.uk\)](#)

**Data Quality Sources:**

Data quality information is contained in the report.

**Data:**

**Sub-national Electricity and Gas consumption**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

Estimates of annual electricity and gas consumption at and below national level in England, Scotland and Wales. Latest estimates are for 2020.

[Sub-national electricity and gas consumption summary report 2020 - GOV.UK \(www.gov.uk\)](#)

Sub-national domestic electricity consumption statistics in Northern Ireland can be found at:

[Sub-national electricity consumption statistics in Northern Ireland - GOV.UK \(www.gov.uk\)](#)

and

[Subnational Electricity and Gas Consumption Statistics: Regional and Local Authority, Great Britain, 2020 \(publishing.service.gov.uk\)](#)

In Chapter 5 the data consists of total gas consumption, number of meters and average consumption per meter for each District Council area in Northern Ireland.

[Sub-national gas consumption statistics in Northern Ireland - GOV.UK \(www.gov.uk\)](#)

The 2020 report is used for comparisons in Chapter 6.

[Subnational Electricity and Gas Consumption Statistics: Regional and Local Authority, Great Britain, 2020 \(publishing.service.gov.uk\)](#)

**Data Quality Sources:**

Quality information can be found in:

[Subnational Consumption Statistics: methodology and guidance \(publishing.service.gov.uk\)](#)



**Data:**

**Stacked electricity consumption statistics data**

Official Statistic

**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

Electricity consumption data for 2005 to 2020.

[Stacked electricity consumption statistics data - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data Quality Sources:**

The data quality report can be found at:

[Subnational Consumption Statistics: methodology and guidance \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)

**Data:**

**2020 Electricity and Gas Retail Markets Annual Report**

Not a UK Statistic

**Source:**

Commission for Regulation of Utilities, Ireland.

**Description:**

This Commission for Regulation of Utilities report is intended to provide consumers, industry and other interested stakeholders with relevant information on the development of competition in Ireland's electricity and gas retail markets in 2020. The annual report draws on a range of data sources from the past year and provides an overview of the key developments in the electricity and gas retail markets.

[211013-Energy-Water-Monitoring-Report-2020.pdf \(cru.ie\)](https://www.cru.ie/2021/01/21/211013-Energy-Water-Monitoring-Report-2020.pdf)

**Data Quality Sources:**

Not available.



**Data:**

**Energy Trends UK electricity**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

Data on electricity generation, supply, consumption and fuel use for generation.

[Energy Trends March 2022 \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)

**Data Quality Sources:**

This is a National Statistic, its quality report can be found at:

[Energy\\_balance.pdf \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)



Chapter 4:  
**Renewable Electricity**



## Chapter 4: Renewable Electricity

### Data:

**About Renewable Energy – Related to Canada**

Not a UK Statistic

### Source:

Government of Canada

### Description:

The report details Renewable Energy in Canada.

[About Renewable Energy, Government of Canada website.](#)

### Data Quality:

Not available.

### Data:

**DS3 Programme**

Not an Official Statistic

### Source:

System Operator for Northern Ireland.

### Description:

Information on the DS3 Programme.

[DS3 Programme \(soni.ltd.uk\)](#)

### Data Quality:

Not available.



**Data:**

**Regional Renewable Statistics**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

The tables show a variety of renewable electricity data for the devolved administrations and the regions of England.

<https://www.gov.uk/government/statistics/regional-renewable-statistics>

**Data Quality:**

This is a National Statistic, its quality report can be found at:

[Background Quality Report Renewables \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)

**Data:**

**Energy Trends: UK Weather**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

Quarterly and monthly data on weather patterns, including temperature, heating degree days, wind speeds, sun hours and rainfall.

[Energy Trends: UK weather - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data Quality:**

This is a National Statistic, and is produced as a part of DUKES, its quality report can be found at:

[Electricity statistics methodology note \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)



**Data:**

**Wind Energy in the UK**

Not an Official Statistic

**Source:**

Office for National Statistics.

**Description:**

Quarterly and monthly data on weather patterns, including temperature, heating degree days, wind speeds, sun hours and rainfall.

[Wind energy in the UK - Office for National Statistics \(ons.gov.uk\)](https://ons.gov.uk)

**Data Quality:**

Quality information is contained within the document.

**Data:**

**Energy Trends: December 2019, special feature article - Electricity generation and supply figures for Scotland, Wales, Northern Ireland and England, 2015 to 2018**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

This is a special feature article it shows how generation and consumption of electricity varies across the four countries of the United Kingdom.

[Energy Trends: December 2021. Special feature article Electricity generation and supply figures for Scotland, Wales, Northern Ireland and England, 2016 to 2020. Gov.uk website](https://www.gov.uk/government/articles/2020/12/energy-trends-december-2021-special-feature-article-electricity-generation-and-supply-figures-for-scotland-wales-northern-ireland-and-england-2016-to-2020)

**Data Quality:**

This is a National Statistic, its quality report can be found at:

[Background Quality Report Renewables \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)



**Data:**

**Planning activity statistics**

Official Statistic

**Source:**

Department for Infrastructure.

**Description:**

Reports on the volume of planning applications received and decisions issued, including geographic detail at the Local Government District and the Assembly Constituency levels.

[Planning activity statistics](#) | [Department for Infrastructure \(infrastructure-ni.gov.uk\)](#)

**Data Quality:**

Data quality reports can be found at:

[Planning activity statistics](#) | [Department for Infrastructure \(infrastructure-ni.gov.uk\)](#)

Chapter 5:  
**Total Energy Consumption**



## Chapter 5: Total Energy Consumption

### Data:

#### Total final energy consumption at regional and local authority level



### Source:

Department for Business, Energy and Industrial Strategy.

### Description:

Estimates of total final energy consumption from 2003 to 2019 at a regional (NUTS1) and a local (LAU1 - formally NUTS4) level

[Total final energy consumption at regional and local authority level: 2005 to 2019 - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

### Data Quality Sources:

This is a National Statistic, its quality report can be found at:

[Subnational Consumption Statistics: methodology and guidance \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)

### Data:

#### Transmission, distribution and supply of Gas

Not an Official Statistic

### Source:

Utility Regulator for Northern Ireland.

### Description:

The links below outline recent developments in gas including development of the Northern Ireland gas industry, natural gas licences, gas wayleaves and guidance for gas licence holders.

[Gas | Utility Regulator \(uregni.gov.uk\)](https://uregni.gov.uk)

[Gas | Northern Ireland Executive](#)

[Gas | Department for the Economy \(economy-ni.gov.uk\)](https://economy-ni.gov.uk)

### Data Quality Sources:

The regulator produces a quarterly transparency report that can be found at:

[Transparency Reports 2021 | Utility Regulator \(uregni.gov.uk\)](https://uregni.gov.uk)



**Data:**

**Quarterly Retail Energy Market Monitoring Report and Market Information**

Not an Official Statistic

**Source:**

Utility Regulator for Northern Ireland.

**Description:**

The Quarterly Retail Energy Market Monitoring report (QREMM) is the latest of a series of Utility Regulator (UR) reports (previously known as the Quarterly Transparency Reports (QTRs)) that provide a range of information about the retail energy market in Northern Ireland (NI).

[Q4 2021 Quarterly Retail Energy Market Monitoring Report, Northern Ireland Utility Regulator website](#)

[Market Information | Utility Regulator \(uregni.gov.uk\)](#)

Data from these reports is contained throughout the report.

**Data Quality Sources:**

Quality information is contained in the report.

**Data:**

**Typical Domestic Consumption Values**

Not an Official Statistic

**Source:**

Ofgem.

**Description:**

Typical Domestic Consumption Values (TDCVs) are industry standard values for the annual gas and electricity usage of a typical domestic consumer.

[Decision for Typical Domestic Consumption Values 2020, Ofgem website.](#)

**Data Quality Sources:**

Methodology for the latest figures can be found within the document.





**Data:**

**Typical gas consumption by property size and the number of adult occupiers**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

The National Energy Efficiency Data-Framework (NEED) was set up by DECC (now BEIS) to provide a better understanding of energy use and energy efficiency in domestic and buildings in Great Britain.

[National Energy Efficiency Data-Framework \(NEED\) report: summary of analysis 2021 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/97122/NEED-report-summary-of-analysis-2021.pdf)

**Data Quality Sources:**

The methodology report can be found at:

[Domestic NEED 2021 Annex D: Methodology note \(publishing.service.gov.uk\)](https://publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/97122/NEED-report-summary-of-analysis-2021.pdf)

**Data:**

**Northern Ireland Annual Coal Inquiry**

Official Statistic

**Source:**

Northern Ireland Statistics and Research Agency.

**Description:**

The Annual Coal Inquiry collects information on all coal and other solid fuels shipped into Northern Ireland each year and the purpose for which it was imported: for domestic or industrial use, or for the generation of electricity. It covers all types of solid fuels including coal, anthracite, lignite, coke and manufactured smokeless fuels. Figures are inclusive of all sources of coal shipped (bulk cargo and containerised) to Northern Ireland, including cross channel and foreign imports.

[NI Annual Coal Inquiry | Northern Ireland Statistics and Research Agency \(nisra.gov.uk\)](https://www.nisra.gov.uk/annual-coal-inquiry)

**Data Quality Sources:**

Not available.



**Data:**

**Road Lengths in Great Britain**



**Source:**

Department for Transport.

**Description:**

This annual release presents estimates for road lengths in Great Britain maintained at public expense.

[Road Lengths in Great Britain 2019 \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)

**Data Quality Sources:**

This is a National statistic. Statistical information and technical information can be found at:

[Road condition statistics information - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data:**

**Northern Ireland Transport Statistics**



**Source:**

Department for Infrastructure and the Northern Ireland Statistics and Research Agency.

**Description:**

This statistical report is a compendium publication produced by the Analysis, Statistics and Research Branch (ASRB) of the Department for Infrastructure (DfI). It brings together information on the road network, public transport and accessible transport in Northern Ireland and is published each year around September/October.

[Northern Ireland Transport Statistics 2018-2019, Department for Infrastructure website](https://www.dfi.gov.uk)

**Data Quality Sources:**

This publication is a National Statistic. Its quality report can be found at:

[Background quality report: Northern Ireland transport statistics | Department for Infrastructure \(infrastructure-ni.gov.uk\)](https://www.dfi.gov.uk)



**Data:**

**Road transport energy consumption at regional and local authority level**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

Consumption statistics for fuels used in road transport at regional and local levels are available below.

[Road transport energy consumption at regional and local authority level, 2005-2019 - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data Quality Sources:**

This dataset is a National Statistic. Its methodology report can be found at:

[Sub-national consumption statistics: methodology and guidance - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

Chapter 6:  
**Energy and the Consumer**



## Chapter 6: Energy and the Consumer

### Data:

#### Family Spending in the UK



### Source:

Office for National Statistics.

### Description:

The findings in this workbook are taken from data collected on the Living Costs and Food Survey (LCF). The LCF is a UK household survey designed to provide information on household expenditure patterns and food consumption. This workbook breaks the figures down by region:

[Family spending workbook 3: expenditure by region - Office for National Statistics \(ons.gov.uk\)](#)

Average weekly household expenditure on goods and services in the UK.

[Detailed household expenditure by countries and regions: Table A35 - Office for National Statistics](#)

### Data Quality Sources:

This is a National Statistic, its quality report can be found at:

[Living Costs and Food Survey technical report: financial year ending March 2020 - Office for National Statistics \(ons.gov.uk\)](#)

### Data:

#### Energy in Northern Ireland – 2020 and 2016

Official Statistic

### Source:

Department for the Economy.

### Description:

These publications aim to provide a comprehensive and accessible overview of key statistics and information relating to energy in Northern Ireland.

[Energy in Northern Ireland 2020 | Department for the Economy \(economy-ni.gov.uk\)](#)

[Energy in Northern Ireland 2016 | Department for the Economy \(economy-ni.gov.uk\)](#)

### Data Quality Sources:

The quality report for 2020 can be found at:

[Energy in Northern Ireland 2020 Quality Report | Department for the Economy \(economy-ni.gov.uk\)](#)



**Data:**

**BEIS Public Attitude Tracker**

Official Statistic

**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

The Public Attitudes Tracker (PAT) survey covers public attitudes towards Department for Business, Energy and Industrial Strategy (BEIS) policies such as energy, climate change, consumer rights, artificial intelligence and workers' rights.

[BEIS Public Attitudes Tracker: Wave 35 - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

Proportion of households with central heating data for the UK is taken from the Department for Business, Energy and Industrial Strategy's Public Attitudes Tracker Survey– data is available from summary tables spreadsheet.

[Public Attitudes Tracking Survey: Wave 18 - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data Quality Sources:**

Technical notes on the survey can be found at:  
[PAT technical note w33.pdf \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)

**Data:**

**Average weekly household expenditure by Expenditure type, Household Composition and Year in the Republic of Ireland**

Not a UK Statistic

**Source:**

Central Statistics Office.

**Description:**

Republic of Ireland weekly energy expenditure data is derived from the Central Statistics Office's Household Budget Survey available at [Data \(cso.ie\)](https://data.cso.ie)

**Data Quality Sources:**

The Quality report from the Household survey can be found at:  
[Household Budget Survey - CSO - Central Statistics Office](https://www.cso.ie)



**Data:**

**Census 2016 Republic of Ireland**

Not a UK Statistic

**Source:**

Central Statistics Office.

**Description:**

Proportion of households with central heating data for the Republic of Ireland is taken from the 2016 Census, available on the Central Statistics Office's website - see report [Census, Central Statistics Office website](#) and data tables [Data \(cso.ie\)](#).

**Data Quality Sources:**

CSO data follows strict quality guidelines:

[Statistical Standards and Quality - CSO - Central Statistics Office](#)

**Data:**

**Northern Ireland Domestic energy expenditure and Household Energy Expenditure**

Research Reports

**Source:**

Department for the Economy.

**Description:**

This Northern Ireland Domestic energy expenditure examines expenditure by households on energy as a component part of all household expenditure, transfers and savings. The report compares household energy expenditure between Northern Ireland and England, Scotland and Wales.

[Northern Ireland household domestic energy expenditure 2013-15 to 2018-20, DfE website.](#)

The Northern Ireland Household Energy Expenditure explores the pattern of energy expenditure by households in Northern Ireland in relation to their different levels of household income; potential impacts of rising energy expenditure; and whether the potential impact of rising energy expenditure on discretionary and non-discretionary expenditure could be explored.

[Northern Ireland household energy expenditure: income differences and non-discretionary impacts, DfE website.](#)

**Data Quality Sources:**

These reports use data from the Living Costs and Food survey (LCF) conducted by the Office for National Statistic which is a National statistic, the quality report can be found at:

[Living Costs and Food Survey QMI - Office for National Statistics \(ons.gov.uk\)](#)



**Data:**

**Annual Domestic Energy Bills**

Official Statistic

**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

BEIS publishes annual estimates of gas and electricity bills, along with statistics on household expenditure on fuel.

[Annual domestic energy bills - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data Quality Sources:**

The data quality report can be found at:

[Domestic energy prices: data sources and methodology - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data:**

**International domestic energy prices used for Domestic Electricity Prices  
in the EU for medium consumers**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

BEIS publishes comparisons of industrial energy prices by consumer size against other EU and G7 countries, using data from both Eurostat and the International Energy Agency (IEA).

[International domestic energy prices - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data Quality Sources:**

This is a National statistic and its quality report can be found at:

[International comparisons: data sources and methodologies - GOV.UK \(www.gov.uk\)](https://www.gov.uk)





**Data:**

**The cost of doing business in Northern Ireland**

Research Report

**Source:**

Department for the Economy.

**Description:**

This research report benchmarks key business cost areas locally against other economies, in particular the United Kingdom and Republic of Ireland.

[The cost of doing business in Northern Ireland | Department for the Economy \(economy-ni.gov.uk\)](https://economy-ni.gov.uk)

**Data Quality Sources:**

Information on the methodology used can be found in the main report:

[Cost of Doing Business report.pdf \(economy-ni.gov.uk\)](#)

**Data:**

**Fuel Price Report**

Not an Official Statistic

**Source:**

The AA.

**Description:**

This report shows Information on fuel prices in different areas of the UK and across Europe and the US.

[Compare latest petrol and diesel fuel prices, The AA website](#)

**Data Quality Sources:**

Quality documentation is not available.



**Data:**

**Road fuel and other petroleum product price statistics**



**Source:**

Department for Business, Energy and Industrial Strategy.

**Description:**

BEIS produce statistics on road fuel and other petroleum product price statistics.

[Road fuel and other petroleum product price statistics - GOV.UK \(www.gov.uk\)](https://www.gov.uk)

**Data Quality Sources:**

Data quality information can be found in:

[petrol\\_price\\_methodology.pdf \(publishing.service.gov.uk\)](https://publishing.service.gov.uk)