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| **Indicator 29 :** | **Greenhouse gas emissions** |

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| **Responsible Statistician:** | Maire Brolly, Department of Agriculture, Environment and Rural Affairs | |
| **Web Link to Statistical Publication:** | All releases:  <https://www.daera-ni.gov.uk/articles/northern-ireland-greenhouse-gas-inventory>  Latest:  https://www.daera-ni.gov.uk/publications/northern-ireland-greenhouse-gas-inventory-1990-2018-statistical-bulletin  Next: June 2021 (provisional) | |
| **Frequency of update:** | Annual | |
| **Time lag:** | 2 years | |
| **Data Source:** | Administrative | |
| **National Statistics Status** | Official Statistics | |
| **Quality Report:** | Quality assurance and quality control information available from  <http://naei.defra.gov.uk/data/qa-qc> | |
| **Historic Data available from:** | 1990 | |
| **Time-series trend:** | Northern Ireland’s greenhouse gas emissions were estimated to be 19.4 million tonnes of carbon dioxide equivalent. This was a decrease of 2.5% compared to 2017. The longer term trend showed a decrease of 20% compared to the base year. The base year is 1990 for all gases except fluorinated greenhouse gases, for which base year is 1995.   |  |  | | --- | --- | | Units: MtCO2e | | | **BaseYear** | 24.3 | | **1990** | 24.3 | | **1995** | 25.2 | | **1998** | 24.7 | | **1999** | 25.2 | | **2000** | 24.9 | | **2001** | 25.3 | | **2002** | 22.9 | | **2003** | 23.1 | | **2004** | 23.0 | | **2005** | 23.8 | | **2006** | 24.2 | | **2007** | 23.0 | | **2008** | 22.6 | | **2009** | 20.9 | | **2010** | 21.5 | | **2011** | 20.3 | | **2012** | 20.4 | | **2013** | 20.6 | | **2014** | 19.8 | | **2015** | 20.3 | | **2016** | 20.6 | | **2017** | 19.9 | | **2018** | 19.4 |   Also available from https://www.daera-ni.gov.uk/publications/northern-ireland-greenhouse-gas-inventory-1990-2018-statistical-bulletin | |
| **For Survey Data**  **Sample size and confidence interval for the latest available year:** | Sample size: N/A  Confidence interval: N/A | |
| **Please indicate whether UK/RoI/International Comparisons are available:** | UK: Yes  UK Regional: Yes  RoI: Yes  International (please specify countries):  United Nations Framework Convention on Climate Change Annex I parties (42 developed countries) | |
| **Please specify any issues in relation to this data. For example, data limitations, future data availability, any changes to methodology** | The greenhouse gas emission estimates are based on a wide range of data sources and sources of uncertainty include statistical differences, assumptions, proxy datasets and expert judgement. In addition, the natural variability in the processes that are being modelled introduce uncertainty. For example, carbon content of fuels and farming practices under different climatic conditions and soil types. The uncertainties are presented as confidence intervals.  For the greenhouse gas inventory (GHGI) base year, the 95% confidence interval is ±10%, and for 2018 it is ±7%. For the percentage reduction between the GHGI base year and 2018 the 95% confidence interval ranges from 11% to 31%, with a central estimate of 20%.  Each year the entire back series of data to 1990 is revised with updated data and/or methodological changes. | |
| **Is this measure being used to monitor performance against your current/latest Departmental/ Agency Plan** | | Yes |
| **If yes, please specify any particular baseline point/year for the measure which is being for performance monitoring purposes** | | 1990 |

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| **Technical Assessment Panel** |  |
| **Baseline Year** | 2014 |
| **Criteria for reporting change from the baseline** | +/- 1 pps annually (cumulatively) |

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| **Available groupings\*** | **Yes/No** | **Notes** |
| **NI Level** | Yes | See above for note about uncertainty. |
| **Parliamentary Constituency level** | No |  |
| **Local Government District (2014) level** | Yes | Similar data are available for 11 councils from the Local Authority Greenhouse Gas Inventory. Although not directly comparable and with considerable (and not quantified) uncertainties. |
| **Deprivation Quintile** | No |  |
| **NISRA Geography Urban/Rural Measure** | No |  |
| **Gender** | No |  |
| **Age** | No |  |
| **Marital Status** | No |  |
| **Religion** | No |  |
| **Political Opinion** | No |  |
| **Disability** | No |  |
| **Dependants** | No |  |
| **Sexual Orientation** | No |  |
| **Racial Group** | No |  |
| **Lowest level geography at which the measure is available:** | LGD 2014 | |

\* Due to confidentiality constraints, in some instances breakdowns may not be available due to small numbers