General Details

Dataset Title:	Domestic Energy Consumption, 2005
Time Period of Dataset(s):	01/01/2005 to 31/12/2005
Geographic Coverage:	England and Wales
Lowest Area Output:	Middle Layer Super Output Areas (MSOA)
Supplier:	Department of Energy and Climate Change (DECC)
Department:	Energy Statistics
National Statistics Data?	National Statistics
Revisions:	An error in some average data for 2005 and 2006 was identified in November 2013. The error itself related to the introduction of nine new unitary authorities (UAs) on 1 April 2009 and only affected the new UAs. For the affected UAs the data labelled as an average figure was actually a total of the averages for the underlying pre-existing local authorities. Data after 2006 was not affected.

Data Quality

This document provides a range of information that describes the quality of the data and details any points that should be noted when using the data.
ONS has developed **Guidelines For Measuring Statistical Quality**; these are based upon the six European Statistical Service (ESS) Dimensions of Quality developed by Eurostat. The dimensions are:

- Relevance
- Accuracy
- Timeliness and Punctuality
- Accessibility and Clarity
- Comparability
- Coherence

About the dataset

(including the quality dimensions: Relevance and Timeliness and Punctuality)

The dataset provides total and average consumption of domestic ordinary electricity, economy 7 electricity and gas as well as counts of meter points at Government Office Region (GOR), Local Authority (LA) and MSOA level.

The data cover annual consumption. For the electricity data the time period is 30th January to 29th January. For the gas data the time period is the 1st April to 31st March. Currently data are available for 2005 and 2006.

The data are updated annually, 14 months after the period to which they relate.

The data cover all metered domestic gas and electricity consumption. Industrial consumption is excluded from the Neighbourhood Statistics dataset, although it is available on the DECC website.

The production of the data was driven by the Government's 2003 Energy White Paper which emphasised the importance of decision making at local and regional level for energy policy. The data are intended to assist local authorities and RDAs to plan, implement and monitor local energy policy. The data are also used in the production of CO2 emissions information at a sub-national level, which supports the Local Government Performance Framework indicator on "Per capita reduction of CO2 emissions in the Local Authority area" (NI186).

How the data are collected

Electricity

DECC has an agreement with all the electricity suppliers in Great Britain, whereby they agree to provide DECC with annualised consumption data for each Meter Point Administration Number (MPAN) or electricity meter. The consumption data for each MPAN is not weather corrected and represents consumption covering the 365 days commencing 30th January each year. As well as the meter number and energy consumption, DECC also receive address point data for each meter.

The address point data is then used to match each MPAN to a local authority and MSOA using the National Statistics Postcode Directory and the Postal Address File (PAF).

Gas

A similar process is used to compile the gas data. Gas transporters supply DECC with the Annualised Quantity (AQ) for each Meter Point Reference Number (MPRN) or gas meter as well as address point data. An AQ is an estimate of annualised consumption using consumption recorded between two meter readings at least six months apart. The estimate is then weather corrected to reflect a 17 year trend. The AQ for each MPRN represents consumption relating to the financial year 1st April to 31st March, rather than for a calendar year.

The MPRN data is then matched to a local authority and MSOA using the National Statistics Postcode Directory and the Postal Address File (PAF).

Further details on the data collection process are available on the DECC website

Concepts and Definitions

Ordinary domestic electricity meter – A domestic meter with a tariff which charges electricity use at a standard rate, except potentially the first X kWh of consumption each year which can be at a higher rate, and replace the standing charge bill element (where X varies between individual suppliers and tariffs).

Economy 7 domestic electricity meter – A domestic meter with a tariff which charges a lower rate for electricity used overnight. Electricity used during the day is usually charged at a slightly higher rate than an ordinary domestic meter.

Data Classifications

Standard Classifications used (if any):	Not Applicable

Validation and Quality Assurance

(including the quality dimensions: Accuracy, Comparability and Coherence)

Data validation checks include comparisons of electricity and gas meter points against the number of households in a particular area (although it is possible for some households to have more than one electricity meter, or not to be connected to the gas network). As part of the validation process, it is assumed that no domestic electricity meter should record consumption of 100,000 kWh or above, and special attention is also paid to meters showing consumption in excess of 50,000 kWh.

The data are compiled using meter readings from all domestic gas and electricity meters in England and Wales which are matched to their LA and MSOA using address point data. Not all meters can be matched to a LA or MSOA due to missing or incorrect address information. See 'Geographic Referencing' for more information.

The meter readings are based on a mixture of actual and estimated gas and electricity meter readings. For the gas data, the general approach of the gas industry is to allocate all meters with an annual consumption less than 73,200 kWh to the domestic sector. This is because, unlike electricity meters which have a profile class indicating usage type associated with them, there is no similar reliable marker associated with gas meters. Consequently, the gas meters of around 2 million small and medium sized businesses are classed as domestic.

The data are National Statistics and can be used in a time series analysis.

There have been improvements in matching the meter point data to LAs and MSOAs which will affect the comparability over time; data for previous years are not revised to take account of improved matching.

In processing this data for publication ONS have carried out checks to ensure the quality of the data.

Note: The figures for average consumption of ordinary electricity, Economy 7 and gas have been calculated on an unrounded count of megawatt hours accurate to 3 decimal places (not shown). These differ slightly to those that would be calculated from the rounded figures presented in the dataset to 0 decimal places.

Geographic Referencing

The data are collected at meter point level, and each meter point has an address associated to it. Most addresses also include a postcode. Where a postcode is available, it is validated against the National Statistics Postcode Directory, and uses direct mapping to LA/ MSOA area codes. If a post code is not available, other address variables can be used to identify the LA code; however in such cases, MSOA data are not available for these meters.

In 2005 0.09% of electricity meters (0.10% of total consumption) could not be allocated to a LA and 1.04% of meters (0.92% of total consumption) could not be allocated to a MSOA. For the gas data, in 2005, 0.03% of meters (0.04% of total consumption) could not be allocated to a local authority and 0.72% of meters (0.62% of total consumption) could not be allocated to a MSOA.

As a consequence, the sum of meter points or domestic energy consumption at MSOA level does not always equal the sum of meter points or domestic energy consumption at the associated LA level.

Disclosure Control

When publishing statistics that are produced by the Government Statistical Service reasonable steps are taken to protect confidentiality. In this dataset all of the variables have been given protection through the use of Statistical Disclosure Control techniques.

Sources for Further Information or Advice

(including the quality dimension: Accessibility and Clarity)

The data is also available on the DECC website at DECC website

Guidance Note : http://www.berr.gov.uk/files/file40044.pdf

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