



Ministry of Housing,  
Communities &  
Local Government

# Energy Performance of Buildings Certificates Statistical Release: Q3 2019: England and Wales

## Energy Efficiency *Experimental* *Official Statistics* *Release*

31 October 2019

### *England & Wales*

- Since 2008, 20,586,000 EPCs have been lodged in England and Wales.

### *England*

- From July to September 2019, 409,000 Energy Performance Certificates (EPCs) were lodged in England, an increase of 12% from the same quarter in 2018.
- There was an increase of 6% (61,000) in the number of EPCs lodged for new dwellings in the last quarter, compared to the equivalent quarter in 2018, and a continuation of the upward trend in EPCs for new dwellings since 2014.
- In the 12 months to September 2019, 249,000 EPCs were lodged for new build dwellings, an increase of 8% on the previous year.
- From July to September 2019, 81% of new properties were given an A or B rating.

### *Wales*

- From July to September 2019, 23,000 Energy Performance Certificates (EPCs) were lodged in Wales, an increase of 31% from the same quarter in 2018.
- There was an increase of 23% (2,000) in the number of EPCs lodged for new dwellings in the last quarter, compared to the equivalent quarter in 2018.
- In the 12 months to September 2019, 9,000 EPCs were lodged for new build dwellings, an increase of 15% on the previous year.
- From July to September 2019, 82% of new properties were given a B rating.

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**Note to users:** We are seeking to improve this quarterly release by linking to open data sources. We would welcome views on this at [EPBStats@communities.gov.uk](mailto:EPBStats@communities.gov.uk). Please see the Data Quality section for more details.

*Due to rounding the figures for England and Wales separately do not add up to the total for England and Wales combined.*

# Introduction

This statistical release presents Experimental Official Statistics based on Energy Performance Certificates (EPCs) issued for domestic and non-domestic buildings and Display Energy Certificates (DECs) issued for buildings occupied by public authorities. The certificates are lodged on the Energy Performance of Buildings Registers (“the Registers”) for England and Wales.

Throughout the release, for the first time this quarter, the figures have been split into England only and Wales only figures. If England and Wales combined figures are required they are available in the live tables published alongside this release here: <https://www.gov.uk/government/statistical-data-sets/live-tables-on-energy-performance-of-buildings-certificates>. The number of EPCs in England are quoted to the nearest thousand. The Welsh and DEC figures are quoted to the nearest hundred. Percentage changes have been calculated using unrounded figures. Due to rounding individual figures may not add up to the total.

## Energy Performance Certificates

An Energy Performance Certificate (EPC) indicates the energy efficiency of a building. The assessments are banded from A to G, where A (or A+ for non-domestic properties) is the most efficient in terms of likely fuel costs and carbon dioxide emissions. An EPC is required when a building is newly constructed, sold or let. The purpose of an EPC is to show prospective tenants or buyers the energy efficiency of the property. The requirement for EPCs was introduced in phases and fully implemented for domestic properties by autumn 2008. EPCs are valid for 10 years.

## Display Energy Certificates

Larger properties occupied by public authorities and frequently visited by the public must display a Display Energy Certificate (DEC) in a prominent place. DECs show the actual energy consumption of a building and are accompanied by reports which provide recommendations on potential energy saving measures.

## Experimental Official Statistics

Experimental Official Statistics are defined in the Code of Practice for Statistics as “new official statistics undergoing evaluation”. They are published in order to involve users and stakeholders in their development and as a means to build in quality at an early stage.

These statistics are based on information from EPCs and DECs lodged on the Registers. This administrative data is subject to continuing quality investigation and improvement (see Technical Notes on Data Quality). They have been released because they have been judged to be of immediate value to interested parties and to encourage user feedback.

## Open Data

In addition to this statistical release, MHCLG release record level EPC data on Open Data Communities (<https://epc.opendatacommunities.org/>). We would like to produce the statistical release using the open data and carry out a dual running of the release in January 2020, with a

view to producing a full statistical release using open data from April 2020. We would welcome any comments on this: [EPBStats@communities.gov.uk](mailto:EPBStats@communities.gov.uk)

# England & Wales

In the quarter July to September, 432,000 EPCs were lodged on the Registers in England and Wales, an increase of 13% compared to the equivalent quarter in 2018 (Live Table NB1).

Since 2008, 20,586,000 EPCs have been lodged on the Registers in England and Wales, with domestic properties accounting for 96% (19,674,000). Of these, 2,080,000 EPCs (11% of the total domestic properties) covered new domestic properties (including new builds and conversions) (Live Table NB1 and A1).

There was an increase of 6% (64,000) in the number of EPCs lodged for **new** dwellings in the last quarter, compared to the equivalent quarter in 2018. (Live Table NB1). In the year to September 2019, 258,000 EPCs for new dwellings were lodged, up 8% on the previous year.

## England

This section presents statistics on the number of EPCs in England only.

### Cumulative totals for EPCs and DEC

From July to September 2019, 409,000 EPCs were lodged on the Register covering all properties (domestic and non-domestic) in England. This represents an increase of 12% compared with the same quarter in 2018 (Live Table A1). In the 12 months to September 2019, 1,568,000 domestic EPCs were lodged, an increase of 23% on the previous 12 months (Live Table D1).

Since 2008, in England 19,533,000 EPCs have been lodged on the Registers, with domestic properties accounting for 96% of the total (18,664,000). Of these domestic properties, 1,997,000 EPCs (11% of the total) covered **new** domestic properties (including new builds and conversions) (Live Table NB1 and A1).

A total of 869,000 EPCs covering non-domestic properties and a total of 358,000 DEC have been lodged on the Registers since 2008 (Live table A and DEC1).

### EPCs for domestic properties

From July to September 2019, 387,000 EPCs were lodged on the Register covering domestic properties (sales, lets and new dwellings) in England. This represents an increase of 13% on the

same quarter last year, when there were 342,000 domestic lodgements (Live Table D1).

In the 12 months to September 2019, in England, 1,487,000 domestic EPCs were lodged, an increase of 23% on the previous 12 months (Live Table D1).

## Existing and new domestic properties

The majority of domestic EPCs were for the sale or let of existing properties. From July to September 2019, 325,000 EPCs for **existing** dwellings were lodged on the Register in England, while 61,000 EPCs were lodged for **new** dwellings (including new builds, conversions and change of use), a 6% increase compared to the same quarter last year. Compared to the corresponding quarter in 2018 the number of EPCs lodged for **existing** dwellings increased by 15% (Live Table EB1).

In the year to September 2019, 1,237,000 EPCs for **existing** dwellings were lodged, while 249,000 EPCs were lodged for **new** dwellings (including new builds, conversions and change of use) up 8% on the previous year, and the largest annual total since the statistical record began. This increase continues the long-term upward trend in EPCs for new dwellings since 2014 (Live Tables EB1 and NB1).

**Table 1: Numbers of EPCs for new and existing dwellings, England, July to September 2019**

Country	New dwellings			Existing dwellings			All dwelling totals
	Number	As proportion of total	Change since the equivalent quarter 2018	Number	As proportion of total	Change since the equivalent quarter 2018	Number
England	61,000	16%	6%	325,000	84%	15%	387,000

Source: Live Tables D1, EB1 and NB1

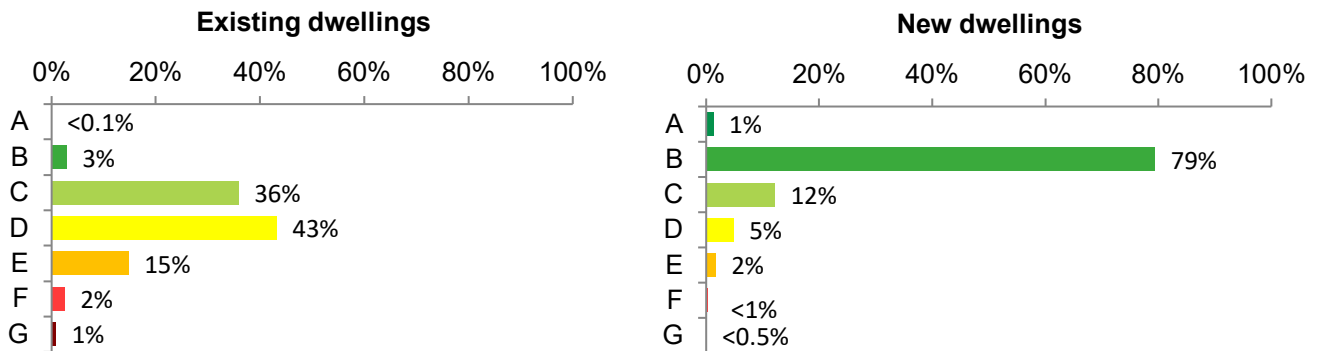
EPCs for domestic properties show an energy efficiency rating (EER) based on estimated fuel costs and an environmental impact rating (EIR) based on CO<sub>2</sub> emissions. Both measures are estimated from the characteristics of the property. The numerical ratings are then banded A to G, with A being the most energy efficient and G the least. In general, the higher the EER or EIR rating, the lower the fuel bills and CO<sub>2</sub> emissions are likely to be.

For both the EER and the EIR, the greatest proportion of lodgements for **existing** domestic

properties in England were in band D. **New** properties in England tended to be more energy efficient, with the majority in band B (Figures 1 and 2).

In England, from July to September 2019, 79% of **existing** dwellings were given a C or D EER, whereas only 17% of **new** dwellings did. The majority of **new** properties were given an A or B EER rating, 81%, only 3% of **existing** dwellings received an A or B rating (Live Tables EB1 and NB1).

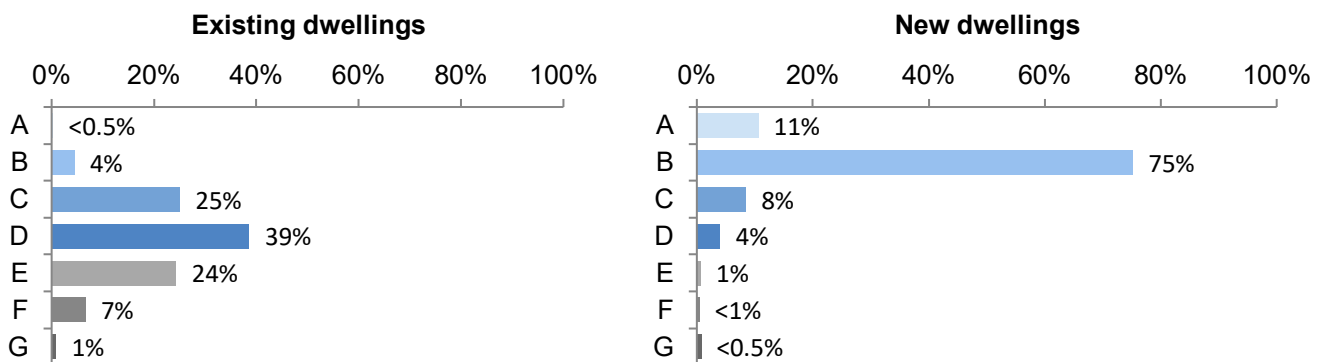
**Figure 1: Energy efficiency ratings (EER): existing and new domestic properties, England, July to September 2019**



Source: Live Tables EB1 and NB1

Note: Percentage changes have been calculated using unrounded figures. Due to rounding, individual figures may not match those quoted in the text

**Figure 2: Environmental impact ratings (EIR): existing and new domestic properties, England, July to September 2019**



Source: Table EB2 and NB2

Note: Percentage changes have been calculated using unrounded figures. Due to rounding, individual figures may not match those quoted in the text

The average values for a range of energy performance indicators for existing and new domestic properties in England are shown in Table 2. New properties tend to be more energy efficient. Flats tend to produce fewer emissions and have lower lighting and heating costs than houses even though flats have a higher energy use per square metre.

<b>Table 2: Mean floor area, energy use, CO<sub>2</sub> emissions and energy costs for existing and new domestic properties, England, July to September 2019</b>						
<b>Property type</b>	<b>Energy use (kWh/m<sup>2</sup> per annum)</b>	<b>CO<sub>2</sub> Emissions (tonnes per annum)</b>	<b>Lighting costs (£ per annum)</b>	<b>Heating costs (£ per annum)</b>	<b>Hot Water costs (£ per annum)</b>	<b>Floor area (m<sup>2</sup>)</b>
<b>Existing:</b>						
Houses	265	4.69	93	799	136	101
Flats	276	2.52	62	414	148	56
<i>All existing dwellings</i>	<b>272</b>	<b>3.87</b>	<b>81</b>	<b>654</b>	<b>141</b>	<b>83</b>
<b>New:</b>						
Houses	86	1.66	76	295	94	114
Flats	145	1.31	50	232	143	60
<i>All new dwellings</i>	<b>112</b>	<b>1.52</b>	<b>65</b>	<b>271</b>	<b>116</b>	<b>90</b>
Source: Live Tables EB7 and NB7						

More new build flats received an EPC certificate, compared to existing dwellings. For both types of property, a smaller proportion of EPCs were for bungalows and maisonettes (Table 3).

<b>Table 3: Dwelling types for existing and new domestic properties, England, July to September 2019</b>					
<b>Property type</b>	<b>Houses</b>	<b>Flats</b>	<b>Bungalow</b>	<b>Maisonettes</b>	<b>Total</b>
Existing	55%	35%	8%	3%	325,000
New	54%	42%	3%	1%	62,000
Source: Live Tables EB7 and NB7					
Note: Proportions do not sum to 100 due to rounding					

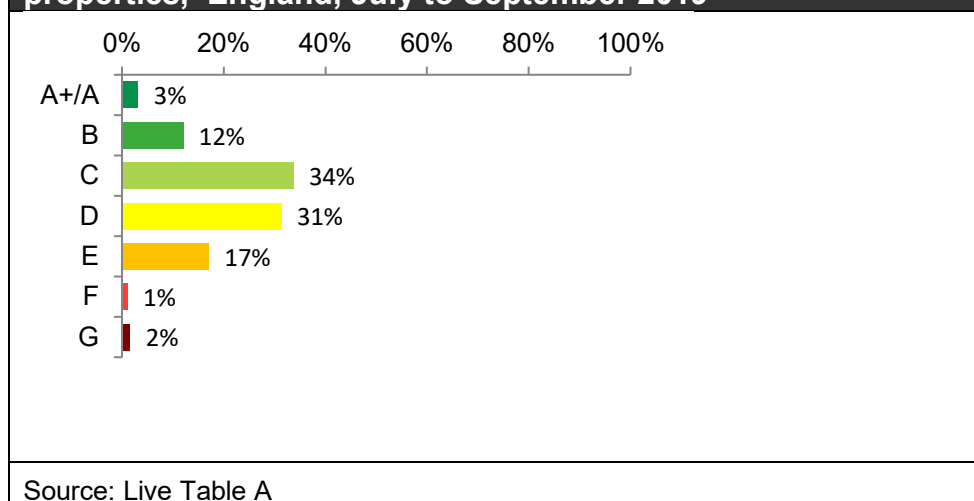
## EPCs for non-domestic properties

From July to September 2019, 22,000 EPCs were lodged for non-domestic properties, a slight decrease of 0.4% compared with the corresponding quarter in 2018.

In the year ending September 2019, 88,000 non-domestic EPCs were lodged, an increase of 3% on the number lodged during the previous year (Live Table A).

The distribution by EPC band is shown in Figure 3. Non-domestic buildings have an additional A+ band but numbers are too small to report. Two thirds (65%) of certificates lodged in England were given a C or D rating. An A+, A or B rating were given to 15% of properties (Live Table A).

**Figure 3: Energy performance asset ratings – non-domestic properties, England, July to September 2019**



## Display Energy Certificates (DECs)

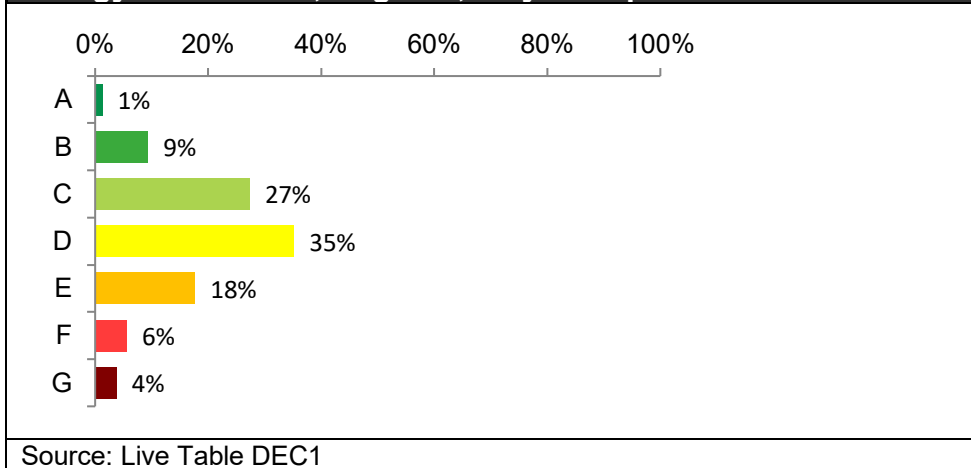
Larger properties occupied by a public authority and frequently visited by the public must display a Display Energy Certificate (DEC). DECs show the actual energy consumption of a building and are accompanied by reports which provide recommendations on potential energy saving measures.

From July to September 2019, 8,000 DECs were lodged in England, an increase of 8% compared with the corresponding quarter in 2018 (Live Table DEC1).

In the year ending September 2019, 32,000 DECs were lodged in England, representing a decrease of 3% compared with the previous year (Live Table DEC1).

The distribution of DECs by Energy Performance Operational Ratings is shown in Figure 4. The highest proportion of Certificates (35%) was in band D.

**Figure 4: Energy Performance Operational Ratings: Display Energy Certificates, England, July to September 2019**



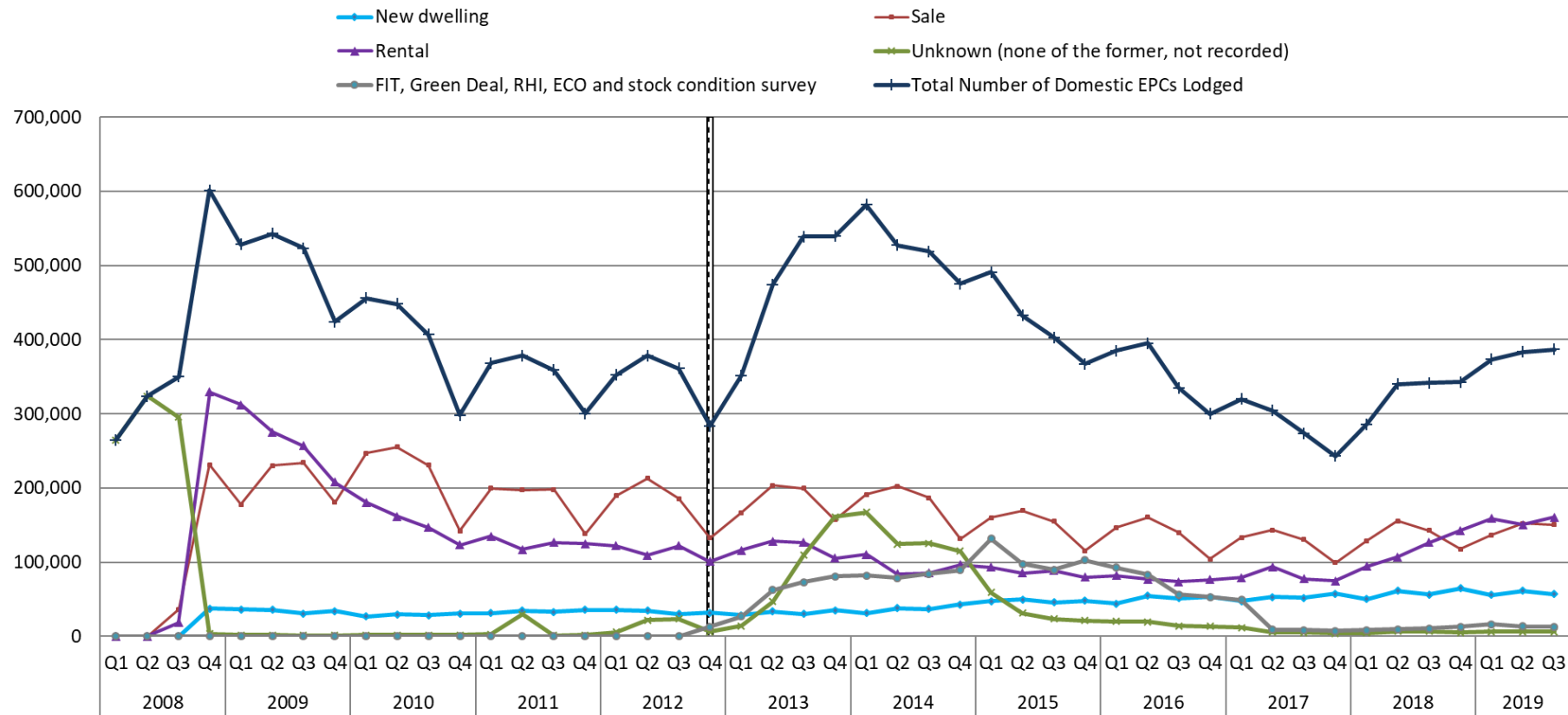
## Transaction types for domestic dwellings

Figure 5 shows the number of domestic EPCs by transaction type, i.e. the reason for the EPC being lodged, as well as the total number. The transaction types have been grouped. For example, lodgements for social and private rentals are grouped together, as are lodgements for energy efficiency programmes and stock condition surveys.

The chart shows fluctuations in different transaction types based on the total number of EPCs lodged. For example, there is a seasonal pattern when home sales take place with fewer at Christmas, which can be seen in the numbers of EPCs lodged for sales. This seasonality affects the total for EPCs, particularly up to the end of 2012. It also shows how the total number of EPCs was influenced by lodgements made for energy efficiency programmes and similar schemes, as well as lodgements for other reasons, particularly in 2013, 2014 and 2015. In comparison to England, the private rental sector in Wales is smaller than in England and the number of 'unknown' for Wales is proportionally quite large.



**Figure 5: Number of domestic EPCs lodged from 2008 to end of September 2019, by transaction type, England**



Source: Live Table D4a and D4b. The categories collected changed in 2012, leading to a break in the chart indicated by the line. They were also not recorded for part of 2008.

# Wales

This section presents statistics on the number of EPCs in Wales only.

## Cumulative totals for EPCs and DEC

From July to September 2019, 23,000 EPCs were lodged on the Register covering all properties (domestic and non-domestic) in Wales. This represents an increase of 31% compared with the same quarter in 2018 (Live Table A1). In the 12 months to September 2019, 86,000 EPCs were lodged – an increase of 29% compared with the previous 12 months.

Since 2008, in Wales 1,053,000 EPCs have been lodged on the Registers, with domestic properties (including new properties) accounting for 96% of the total (1,010,000). Of these domestic properties, 83,000 EPCs (8% of the total) covered **new** domestic properties (including new builds and conversions) (Live Table NB1 and A1).

A total of 43,000 EPCs covering non-domestic properties and a total of 22,000 DECs have been lodged on the Registers since 2008 (Live table A and DEC1).

## EPCs for domestic properties

From July to September 2019, 22,000 EPCs were lodged on the Register covering all domestic properties (sales, lets and new dwellings). This represents an increase of 33% on the same quarter last year, when there were 17,000 lodgements (Live Table D1).

In the 12 months to September 2019, in Wales, 82,000 domestic EPCs were lodged, an increase of 30% on the previous 12 months (Live Table D1)

## Existing and new domestic properties

The majority of domestic EPCs were for the sale or let of **existing** properties. From July to September 2019, 20,000 EPCs for **existing** dwellings were lodged on the Register in Wales, an increase of 34% compared to the same quarter last year (Live Table EB1). This is likely to reflect the validity of EPCs being 10 years. EPCs were introduced using a phased approach and fully implemented for domestic dwellings by autumn 2008. EPCs lodged when the energy performance of buildings regulations were first implemented will now need to be replaced when the dwelling is sold or let to a new tenant.

In the same quarter, 2,000 EPCs were lodged for **new** dwellings (including new builds, conversions and change of use), an increase of 23% compared to the equivalent quarter in 2018.

In the year to September 2019, 72,000 EPCs for **existing** dwellings were lodged on the Register in Wales up 34%, while 9,000 EPCs were lodged for **new** dwellings (including new builds, conversions and change of use) up 15% on the previous year. (Live Tables EB1 and NB1).

**Table 4: Numbers of EPCs for new and existing dwellings, Wales, July to September 2019**

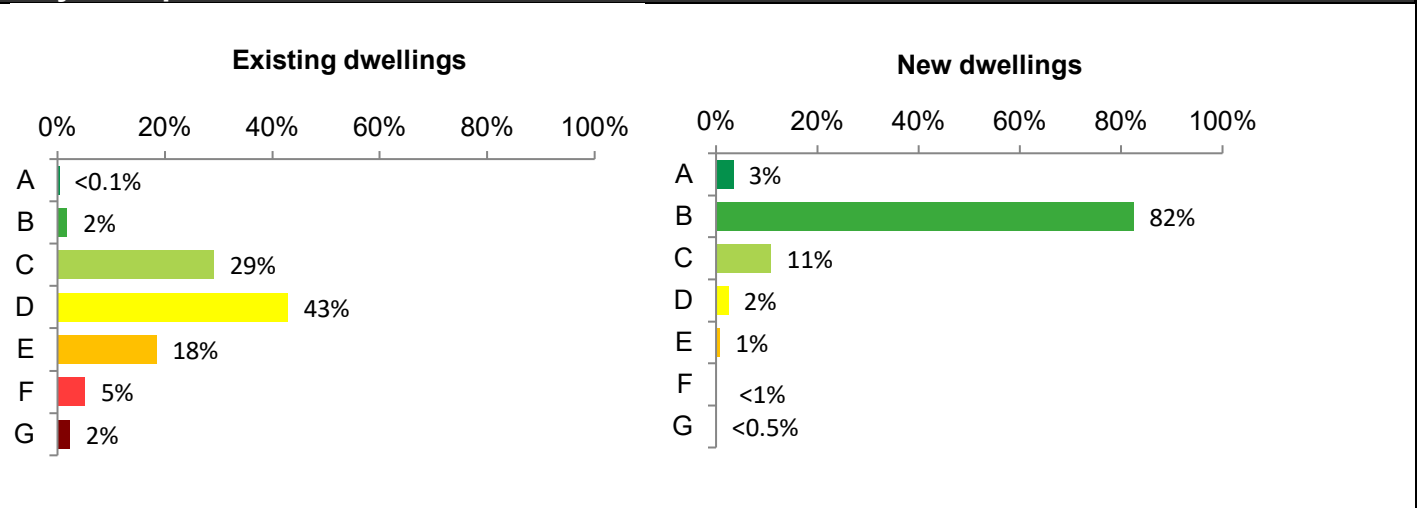
Country	New dwellings			Existing dwellings			All dwelling totals
	Number	As proportion of total	Change since the equivalent quarter 2018	Number	As proportion of total	Change since the equivalent quarter 2018	Number
Wales	2,000	10%	23%	20,000	90%	34%	22,000

Source: Live Tables D1, EB1 and NB1

For both the EER and EIR the greatest proportion of lodgements for **existing** domestic properties in Wales are in band D (Figures 6 and 7).

From July to September 2019, the greatest proportion of lodgements for **existing** dwellings in Wales were in band C or D (72%). **New** properties in Wales tended to be more energy efficient, with the majority in band B (82%) compared to just 13% with a C or D rating (Live Tables EB1 and NB1, Figures 7 and 8).

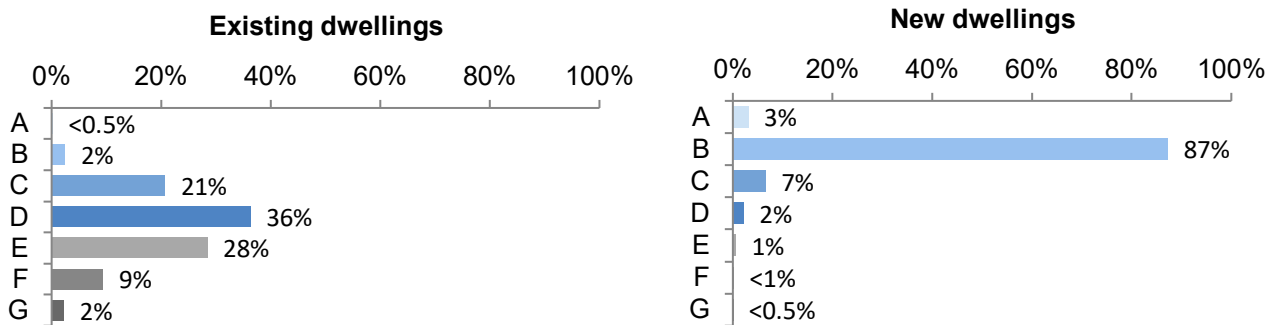
**Figure 6: Energy efficiency ratings (EER): existing and new domestic properties, Wales, July to September 2019**



Source: Live Tables EB1 and NB1

Note: Percentage changes have been calculated using unrounded figures. Due to rounding, individual figures may not match those quoted in the text

**Figure 7: Environmental impact ratings (EIR): existing and new domestic properties, Wales, July to September 2019**



Source: Table EB2 and NB2

Note: Percentage changes have been calculated using unrounded figures. Due to rounding, individual figures may not match those quoted in the text

The average values for a range of energy performance indicators for existing and new domestic properties in Wales are shown in Table 5. New properties tend to be more energy efficient. Flats tend to produce fewer emissions and have lower lighting and heating costs than houses even though flats have a higher energy use per square metre.

**Table 5: Mean floor area, energy use, CO<sub>2</sub> emissions and energy costs for existing and new domestic properties, Wales, July to September 2019**

Property type	Energy use (kWh/m <sup>2</sup> per annum)	CO <sub>2</sub> Emissions (tonnes per annum)	Lighting costs (£ per annum)	Heating costs (£ per annum)	Hot Water costs (£ per annum)	Floor area (m <sup>2</sup> )
<b>Existing:</b>						
Houses	290	5.23	93	907	141	99
Flats	280	2.61	59	441	147	56
<i>All existing dwellings</i>	<b>292</b>	<b>4.70</b>	<b>86</b>	<b>813</b>	<b>145</b>	<b>89</b>
<b>New:</b>						
Houses	86	1.61	74	294	102	107
Flats	131	1.08	45	188	132	49
<i>All new dwellings</i>	<b>99</b>	<b>1.48</b>	<b>66</b>	<b>273</b>	<b>111</b>	<b>91</b>

Source: Live Tables EB7 and NB7

More new build flats received an EPC certificate, compared to existing dwellings. For both types of property, a smaller proportion of EPCs were for bungalows and maisonettes (Table 3).

**Table 6: Dwelling types for existing and new domestic properties, Wales, July to September 2019**

Property type	Houses	Flats	Bungalow	Maisonettes	Total
Existing	70%	19%	10%	1%	20,000
New	70%	26%	3%	1%	2,000

Source: Live Tables EB7 and NB7

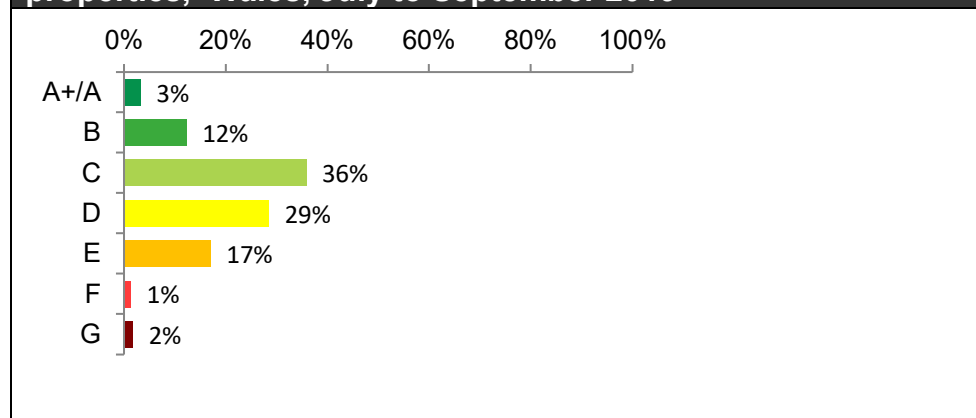
## EPCs for non-domestic properties

During July to September 2019, 1,000 EPCs were lodged for non-domestic properties in Wales, an increase of 5% compared with the corresponding quarter in 2018.

In the year ending July 2019, 4,000 non-domestic EPCs were lodged, an increase of 11% on the number lodged during the previous year (Live Table A).

The distribution by EPC band is shown in Figure 8. Non-domestic buildings have an additional A+ band but numbers are too small to report. Almost two thirds (64%) of certificates lodged in Wales were given a C or D rating. An A+, A or B rating were given to 16% (Live Table A).

**Figure 8: Energy performance asset ratings – non-domestic properties, Wales, July to September 2019**



Source: Live Table A

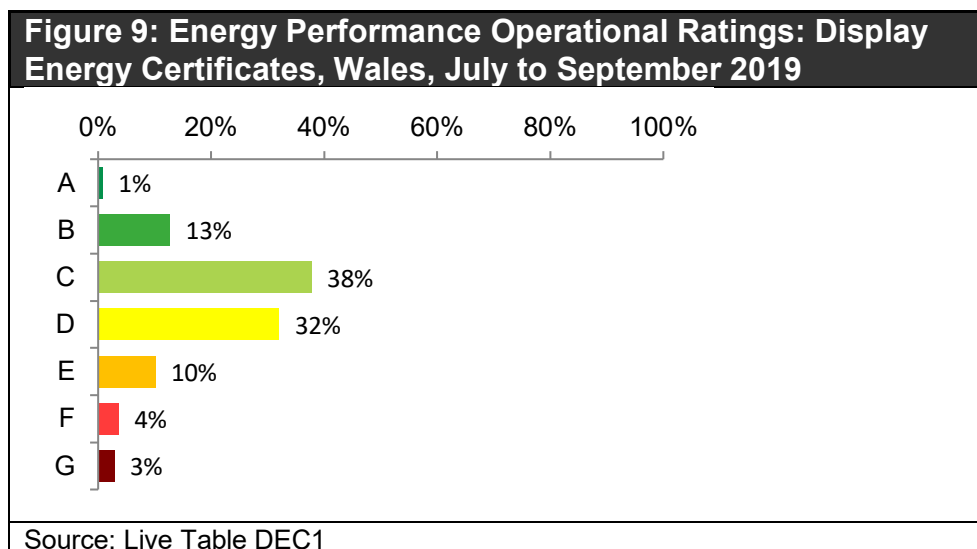
## Display Energy Certificates (DECs)

Larger properties occupied by a public authority and frequently visited by the public must display a Display Energy Certificate (DEC). DECs show the actual energy consumption of a building and are accompanied by reports which provide recommendations on potential energy saving measures.

From July to September 2019, 684 DECs were lodged, an increase of 58% compared with the corresponding quarter in 2018. This large increase may be caused by a pause in the lodgement process where an energy assessor may have decided to lodge a large number of DECs on the register at the same time.

In year ending September 2019, 2,000 DEC's were lodged in Wales, representing an increase of 6% compared with the previous year (Live Table DEC1).

The distribution of DEC's by Energy Performance Operational Ratings is shown in Figure 9. The highest proportions were in bands C (38%) and D (32%).

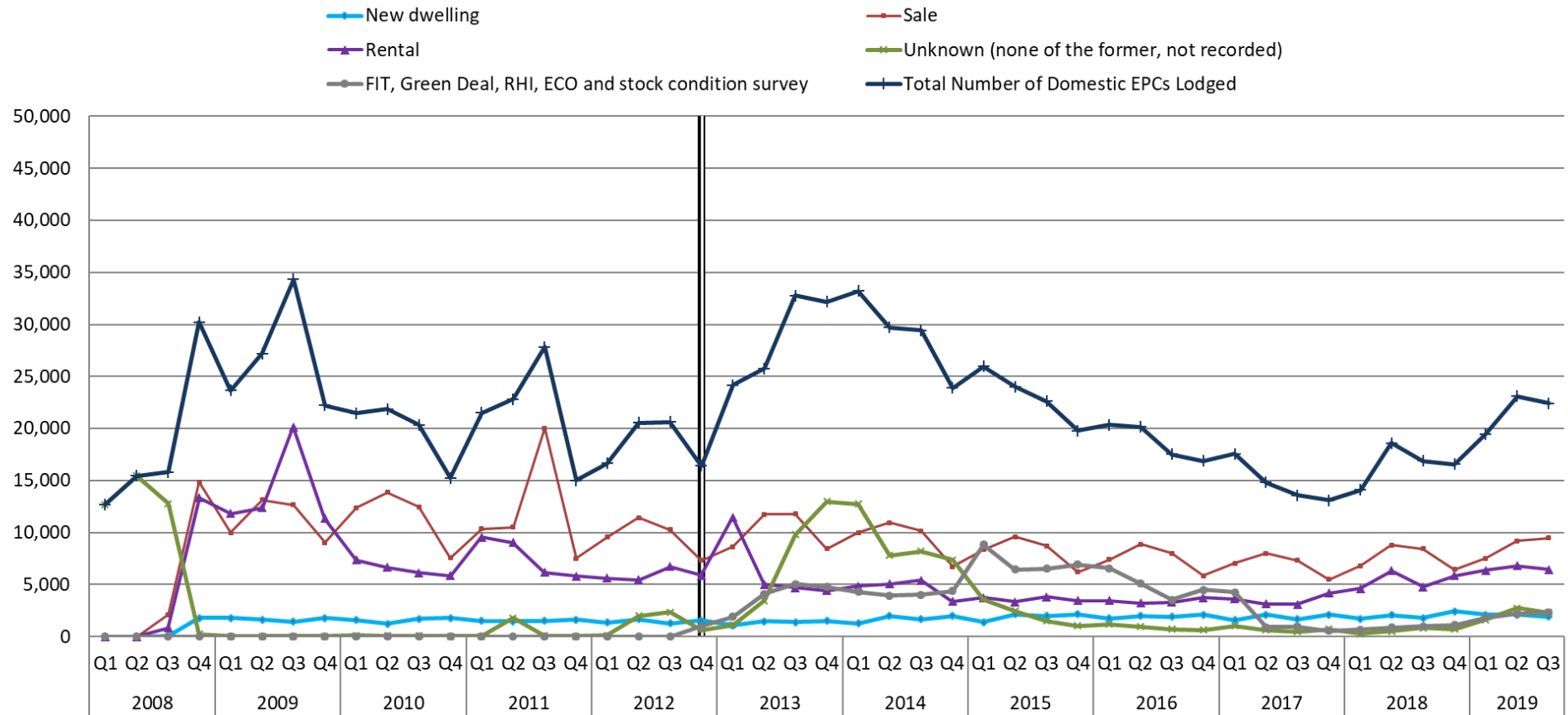


## Transaction types for domestic dwellings

Figure 10 shows the number of domestic EPCs by transaction type, i.e. the reason for the EPC being lodged, as well as the total number. The transaction types have been grouped. For example, lodgements for social and private rentals are grouped together, as are lodgements for energy efficiency programmes and stock condition surveys.

The chart shows fluctuations in different transaction types based on the total number of EPCs lodged. For example, there is a seasonal pattern when home sales take place with fewer at Christmas, which can be seen in the numbers of EPCs lodged for sales. This seasonality affects the total for EPCs, particularly up to the end of 2012. It also shows how the total number of EPCs was influenced by lodgements made for energy efficiency programmes and similar schemes, as well as lodgements for other reasons, particularly in 2013, 2014 and 2015.

**Figure 10: Number of domestic EPCs lodged from 2008 to end of September 2019, by transaction type, Wales**



Source: Live Table D4a and D4b. The categories collected changed in 2012, leading to a break in the chart indicated by the line. They were also not recorded for part of 2008.

# Accompanying tables

## EPCs – All Properties (non-domestic and domestic)

**Table A1:** Number of Energy Performance Certificates lodged on the Register and Total Floor Area, by **Type of Property** – in each Year/Quarter.

## EPCs – All Domestic Properties

**Table D1:** Number of Domestic Energy Performance Certificates lodged on the Register, by **Energy Efficiency Rating** – in each Year/Quarter.

**Table D2:** Number of Domestic Energy Performance Certificates lodged on the Register, by **Environmental Impact Rating** – in each Year/Quarter.

**Table D3:** **Floor Area, Size, Energy Use, Carbon Dioxide Emissions and Fuel Costs** of Dwellings assessed and lodged on the Register - in each Year/Quarter.

**Table D4a:** Number of Domestic Energy Performance Certificates lodged on the Register by, **Type of Transaction** – in each Year/Quarter – up to and including 30 March 2012.

**Table D4b:** Number of Domestic Energy Performance Certificates lodged on the Register, by **Type of Transaction** – in each Year/Quarter – from 30 March 2012 to latest quarter.

**Table D5:** Number of Domestic Energy Performance Certificates lodged on the Register, by **Type of Property and Energy Efficiency Rating** – in each Year/Quarter.

**Table D6:** Number of Domestic Energy Performance Certificates lodged on the Register, by **Type of Property and Environmental Impact Rating** – in each Year/Quarter.

**Table D7:** Number of Domestic Energy Performance Certificates lodged on the Register, by **Type of Property and Average Energy Use, Carbon Dioxide Emissions and Fuel Costs** per Dwelling – in each Year/Quarter.

**Table LA1:** Number of Domestic Energy Performance Certificates lodged on the Register in each **Local Authority, by Energy Efficiency Rating** – in each Year/Quarter.

**Table LA2:** Number of Domestic Energy Performance Certificates lodged on the Register in each **Local Authority, by Environmental Impact Rating** – in each Year/Quarter.

## EPCs – All Existing Domestic Properties

**Table EB1:** Number of Existing Domestic Properties Energy Performance Certificates lodged on the Register, by **Energy Efficiency Rating** – in each Year/Quarter.

**Table EB2:** Number of Existing Domestic Properties Energy Performance Certificate lodged on the Register, by **Environmental Impact Rating** – in each Year/Quarter.

**Table EB3:** **Floor Area, Size, Energy Use, Carbon Dioxide Emissions and Fuel Costs** of Existing Dwellings assessed - in each Year/Quarter.



**Table EB4:** Number of Existing Domestic Properties Energy Performance Certificates lodged on the Register and Total Floor Area, by **Type of Property** – in each Year/Quarter.

**Table EB5:** Number of Existing Domestic Properties Energy Performance Certificates lodged on the Register, by **Type of Property and Energy Efficiency Rating** – in each Year/Quarter.

**Table EB6:** Number of Existing Dwelling Energy Performance Certificates lodged on the Register in England & Wales, by **Type of Property and Environmental Impact Rating** – in each Year / Quarter.

**Table EB7:** Number of Existing Domestic Properties Energy Performance Certificates lodged on the Register, by **Type of Property and Average Energy Use, Carbon Dioxide Emissions and Fuel Costs** per dwelling – in each Year/Quarter.

### **EPCs – All New Domestic Properties**

**Table NB1:** Number of New Domestic Properties Energy Performance Certificates lodged on the Register, by **Energy Efficiency Rating** – in each Year/Quarter.

**Table NB2:** Number of New Domestic Properties Energy Performance Certificate lodged on the Register, by **Environmental Impact Rating** – in each Year/Quarter.

**Table NB3:** **Floor Area, Size, Energy Use, Carbon Dioxide Emissions and Fuel Costs** of New Dwellings assessed - in each Year/Quarter.

**Table NB4:** Number of New Domestic Properties Energy Performance Certificates lodged on the Register and Total Floor Area, by **Type of Property** – in each Year/Quarter.

**Table NB5:** Number of New Domestic Properties Energy Performance Certificates lodged on the Register, by **Type of Property and Energy Efficiency Rating** – in each Year/Quarter.

**Table NB6:** Number of New Dwelling Energy Performance Certificates lodged on the Register in England & Wales, by **Type of Property and Environmental Impact Rating** – in each Year / Quarter.

**Table NB7:** Number of New Domestic Properties Energy Performance Certificates lodged on the Register, by **Type of Property, and Average Energy Use, Carbon Dioxide Emissions and Fuel Costs** per dwelling – in each Year/Quarter.

### **EPCs – Non-Domestic Properties**

**Table A:** Number of Non-Domestic Energy Performance Certificates lodged on the Register, by **Energy Performance Asset Rating** - in each Year/Quarter.

**Table B:** Number of Non-Domestic Energy Performance Certificates lodged on the Register, by **Property Group** - in each Year/Quarter.

### **DECs – Display Energy Certificates**

**Table DEC1:** Number of Display Energy Certificates lodged on the Register, by Local Authority and **Energy Performance Operational Rating** - in each Year/Quarter.

**Table DEC2: Annual Energy Use and Carbon Dioxide Emissions** of Buildings Assessed – in each Year/Quarter.

These tables can be accessed at:

<https://www.gov.uk/government/statistical-data-sets/live-tables-on-energy-performance-of-buildings-certificates>

Previous MHCLG statistical releases are available at:

<https://www.gov.uk/government/collections/energy-performance-of-buildings-certificates>

## Definitions

For full details on how the requirements of the Energy Performance of Buildings Directive are applied to domestic and non-domestic buildings and buildings occupied by public authorities, users should consult the Energy Performance Certificates guidance collection on GOV.UK:

<http://www.gov.uk/government/publications/improving-the-energy-efficiency-of-our-buildings>

A consolidated glossary of all the terms related to energy performance of buildings certificates can be accessed on GOV.UK:

<https://www.gov.uk/guidance/energy-performance-of-buildings-certificates-notes-and-definitions>

## Technical notes

### Data collection

Data lodged on the Registers record information about the certificates issued for buildings which have been newly constructed, sold or let since 2008. Data lodged in relation to buildings occupied by public authorities over 1,000 square metres also date back to 2008. The floor area size threshold was changed to include buildings over 500 square metres in January 2013. In October 2015 the floor area size threshold was lowered to include buildings over 250 square metres.

### Coverage

The Registers do not hold data for every domestic and non-domestic building or every building occupied by public authorities in England and Wales. Buildings only require an EPC when, sold, let or constructed. If a building has been occupied by the same person or company since the regulations came into effect then there's no requirement to have an EPC. DEC are only required where a building is frequently visited and over 250 square meters. Not all public buildings would meet those criteria. These statistics should, therefore, not be interpreted as a true representation of the whole of the building stock in England and Wales, but viewed as part of a wider package of Government's provision of information on the energy efficiency of buildings.

### Periodicity

The release covers certificates lodged between January 2008 and September 2019 and breaks the data down for each specified calendar quarter (Q1=Jan-Mar, Q2=Apr-Jun, Q3=Jul-Sep, Q4=Oct-Dec) within each specified calendar year.

### **New build vs new dwellings**

If works are carried out to create a new building(s), either by means of new build or by conversion of an existing building (for example, subdivision of an existing building into flats or change of use of an office), the person responsible for the construction must obtain an EPC once construction has been completed. This will also apply if a building is converted into fewer or more units designed for separate occupation and there are changes to the heating, hot water provision or air conditioning/ventilation services.

### **Park homes**

This category of property means a caravan within the meaning of Part 1 of the Caravan Sites and Control of Development Act 1960 which is situated on a relevant protected site and which is occupied as the only or main residence. EPCs for park homes have been lodged on the domestic Register since December 2014.

### **Multiple certificates**

The statistical counts in the tables cover all valid EPCs and DECAs (i.e. only those lodged on the Registers where there are no doubts about their status) although individual buildings may have more than one certificate. EPCs are valid for up to 10 years. Depending on the size of the building, a new DEC may be issued annually. Data are kept on the Registers for 20 years; therefore, more than one EPC or DEC may be stored over a number of years for one building. While it is possible to identify the most recent certificate at property level, this duplication is not distinguishable in these high-level statistics.

## **Data quality**

These are experimental official statistics drawn from data which have been lodged on the Registers. Experimental official statistics are, by definition, still subject to evaluation and testing and may not meet the same rigorous quality standards as official statistics generally. In spite of any data quality variances which may exist, we have been publishing these statistics since 2014 because we believe them to be of immediate value and we welcome feedback from interested parties to aid their development.

These statistics are in the development stage as we are exploring ways of linking to property level EPC data currently published on our open data communities website. We hope to have completed testing of this option by April 2020, but will wait for another quarter release to ensure the data are robust before deciding whether to remove the experimental label. This process is aimed at producing more accurate statistics. Advantages include: avoiding variation between tables drawn down at different times; data providers would only have to supply one dataset rather than two; aligning two departmental publications.

In accordance with the regulations, the Ministry of Housing, Communities and Local Government and Landmark Information Group cannot alter data which has been lodged on the Registers.

Data used to produce these published tables is updated every 24 hours and can, therefore, vary from day to day. To ensure consistency between the information detailed in separate tables the published tables are produced on the same day. Exceptionally, data between tables may vary

marginally where we are required to use tables drawn down on different days or where reports are produced using different search criteria.

Originally, Energy Assessor Accreditation Schemes had the option of lodging the underlying data used to produce the certificate in addition to the PDF document of the final certificate itself. After September 2008, lodging the data became a mandatory requirement. Due to the technical difficulty involved in formatting PDFs into searchable data, the statistics do not include data lodged in the form of a PDF document only.

In May 2009, additional validation checks were introduced into the lodgement process to identify prescribed data quality issues. Before this period, statistics for domestic buildings may include anomalies which affect the quality of reported CO<sub>2</sub> emission rates. In addition, statistics for domestic and non-domestic buildings and for DEC's may include anomalies which affect total useful floor area figures.

On 1 April 2012, the first set of Scheme Operating Requirements came into effect for Domestic Energy Assessors, setting new rules for the operation of Energy Assessor Accreditation Schemes. One new requirement was to introduce quality assurance audit of EPCs. The result was a demonstrable improvement in the quality of data lodged on the Registers from mid-2012 onwards. Users are asked to consider this when interpreting figures prior to that period.

Statistics from October to December 2014 onwards includes statistics for EPC lodged for properties defined as Park homes.

### **Assessment of data quality**

In 2015 the UK Statistics Authority (UKSA) published a [regulatory standard for the quality assurance of administrative data](#). To assess the quality of the data provided for this release the department has followed that standard.

The standard is supported with an [Administrative Data Quality Assurance Toolkit](#) which provides useful guidance on the practices that can be adopted to assure the quality of the data they utilise.

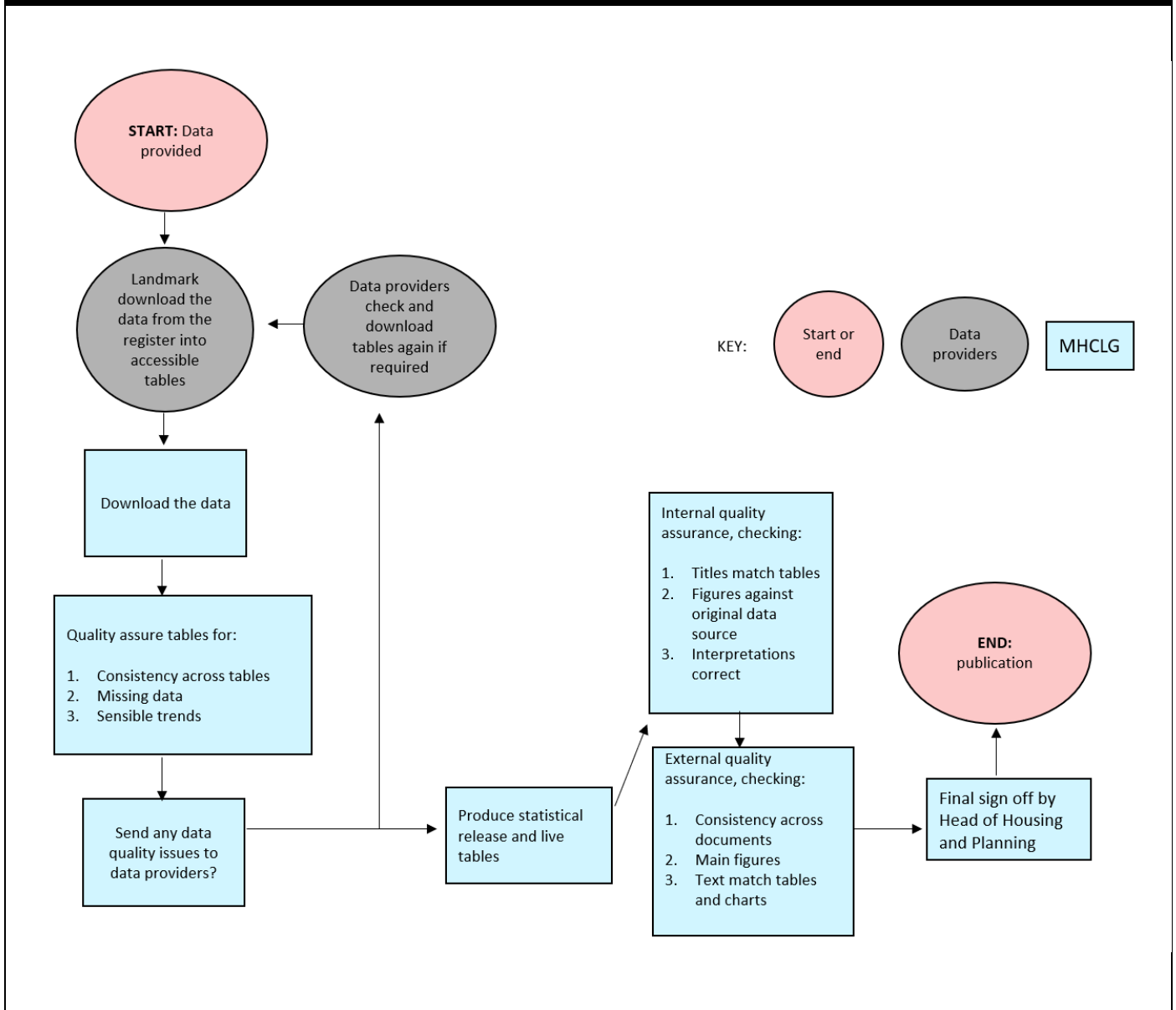
The Energy Performance of Building Certificates statistical release is produced by MHCLG based on data provided by Landmark Information Group. An assessment of the level of risk based on the Quality Assurance Toolkit is as follows:

<b>Risk/Profile Matrix Statistical Series</b>	<b>Administrative Source</b>	<b>Data Quality Concern</b>	<b>Public Interest</b>	<b>Matrix Classification</b>
Energy Performance of Buildings Certificates Statistical Release: England and Wales	Landmark Information Group	Medium	High	Medium Risk [A2]

The publication of Energy Performance of Building Certificates can be considered as high profile,

as there is significant mainstream political interest and media attention. These statistics show the energy performance building certificates for domestic and non-domestic buildings when sold constructed or let and for public authority buildings. The data quality concern is considered a medium concern given that the data is not checked following download by the suppliers. However, this concern is mitigated by the statistician responsible for this publication, who performs further detailed validations and sense checks consistency across tables. A full outline of the statistical production process and quality assurance carried out is provided in the flow chart in Figure 11 below.

**Figure 11: Quality Assurance Flow Diagram**



## Revisions policy

This policy has been developed in accordance with the UK Statistics Authority's *Code of Practice for Statistics* and the Department's own Revisions Policy (found at <https://www.gov.uk/government/publications/statistical-notice-dclg-revisions-policy>).

That policy covers two types of revision:

### Non-Scheduled Revisions

Where a substantial error has occurred as a result of the compilation, imputation or dissemination process, the statistical release, live tables and other accompanying releases will be updated with a correction notice as soon as is practical.

### Scheduled Revisions

MHCLG and Landmark do not alter the source data for these releases. The next quarterly release will include new certificates and any changes to existing ones (e.g. cancellations).

## Uses of the data

The Energy Performance of Buildings Certificates statistical series is an important part of the evidence base which informs the development and evaluation of housing, energy and climate change policy by central and local government. An EPC is required for all properties when constructed, sold or let and this data source provides the most comprehensive evidence of energy efficiency and property attributes in buildings, which is widely used by housing market and energy analysts, environmental modellers, forecasters and decision makers, for example in the construction industry. They are used by the media in reports on the housing market, energy and climate change and by academics both in the UK and abroad. The statistics are also used for market research by a wide range of other businesses.

## User engagement

Users are encouraged to provide feedback on how these statistics are used and how well they meet user needs. Comments on any issues relating to this statistical release are welcomed and encouraged. Responses should be addressed to the "Public enquiries" contact given in the "Enquiries" section below.

The Department's engagement strategy to meet the needs of statistics users is published here:

<https://www.gov.uk/government/publications/engagement-strategy-to-meet-the-needs-of-statistics-users>

## Notes

1-These experimental official statistics based on EPCs and DECs are estimates and are provisional and subject to revision.

2-Throughout this commentary the statistics on lodgements have been quoted to the nearest thousand for EPCs and the nearest hundred for DECs and figures for Wales. Percentage changes have been calculated using unrounded figures.

3-Sources are shown at the foot of individual accompanying tables and live tables.

4-Experimental Statistics are defined in the *Code of Practice for Statistics* as new official statistics undergoing evaluation. They are published in order to involve users and stakeholders in their development and as means to build in quality at an early stage.

5-Details of the Ministers and officials who receive pre-release access to this release up to 24 hours before publication can be found at: <https://www.gov.uk/government/organisations/ministry-of-housing-communities-and-local-government/about/statistics>

6-The next quarterly release will be published on 30<sup>th</sup> January 2020 and will provide lodgement statistics up to the end of the third quarter of 2019.

## Devolved administration statistics

The requirement on domestic and non-domestic properties to have an EPC on construction, sale or let and for buildings occupied by public authorities to have a DEC are devolved matters in Scotland and Northern Ireland. Further information can be found on Devolved Administration websites:

Scottish Government:

<https://www.gov.scot/publications/energy-performance-certificates-introduction/>

Department of Finance, Northern Ireland:

<https://www.finance-ni.gov.uk/topics/building-regulations-and-energy-efficiency-buildings/energy-performance-buildings>

## Enquiries

### Media enquiries:

Office hours: 0303 444 1209

Email: [newsdesk@communities.gov.uk](mailto:newsdesk@communities.gov.uk)

### Public enquiries and Responsible Statistician:

Claire Smith

Email: [EPBStats@communities.gov.uk](mailto:EPBStats@communities.gov.uk)

Information on forthcoming Official Statistics is available via the “gov.uk” Release Calendar:

<https://www.gov.uk/government/statistics/announcements>

Information about statistics at MHCLG is available via the Department’s website:

<https://www.gov.uk/government/organisations/ministry-of-housing-communities-and-local-government/about/statistics>

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If you have any enquiries regarding this document/publication, complete the form at <http://forms.communities.gov.uk/> or write to us at:

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