



Department for
Energy Security
& Net Zero

Household Energy Efficiency

Great Britain, Quarter 2 (April to June) 2023

About this release

The latest quarterly statistics (to quarter 2 (Apr to Jun) 2023) on the operation of the Energy Company Obligation (ECO) and the Green Deal (GD) in Great Britain.

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Scheme Information

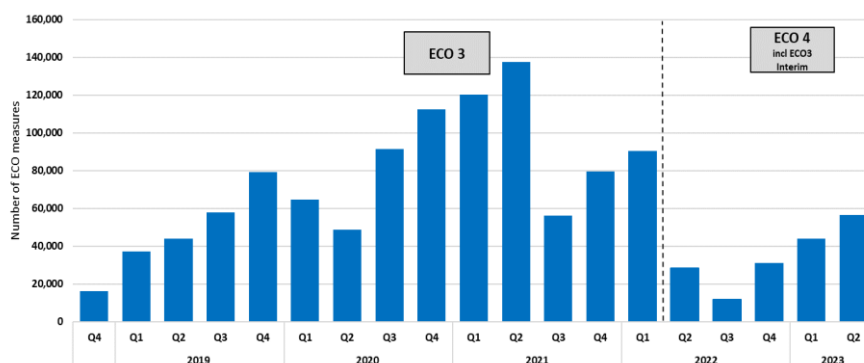
For information on the schemes please see the Technical Information and for other statistical publications see Further Information.

Data tables

The underlying tables are available in Excel format at [HEE Statistics](#).

This publication is based on data from the scheme administrators. New data are incorporated in line with the [DESNZ statistical revisions policy](#) developed in accordance with the UK Statistics Authority [Code of Practice for Statistics](#).

ECO3 and ECO4 measures installed by quarter, to end of June 2023



Key headlines

- Around 3.7 million measures were installed in 2.5 million properties through the Energy Company Obligation (ECO) and the Green Deal (GD).
- Since ECO3 closed at the end of March 2022, it is provisionally estimated that 171,800 measures were installed (including 27,100 ECO3 interim and around 144,700 ECO4 measures).
- In quarter 2 (April to June) 2023, 56,600 measures were installed, a 29 per cent increase compared to quarter 1 (January to March) 2023.
- Delivery under ECO4 has continued to increase, with 19,600 measures installed in June 2023.
- For ECO4 (including ECO3 Interim) to the end of quarter 2 2023, other heating measures represented 46 per cent of measures installed (of which 97 per cent were heating controls), followed by loft insulation at 15 per cent.

1. ECO Trends

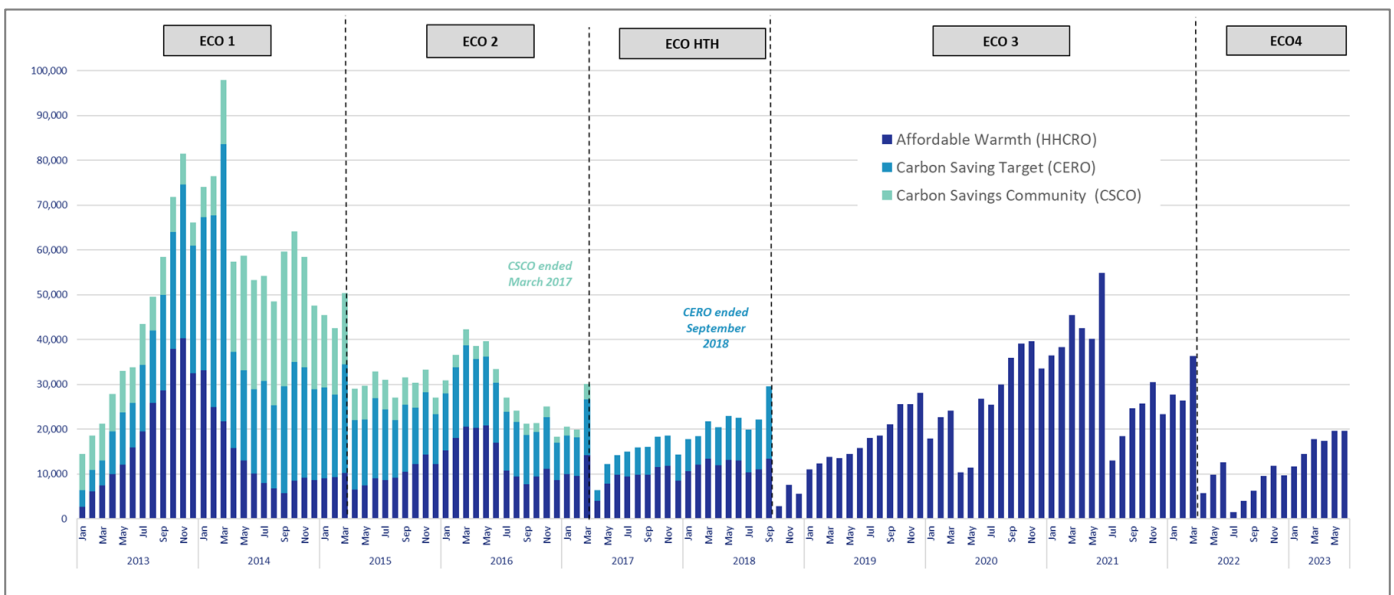
Tables 2.1 to 2.8 and 4.1 to 4.5

The number of measures installed for each phase of ECO, and the number of households receiving ECO measures.

Key Headlines

- 3.6 million measures installed in 2.4 million households under ECO.
- Since April 2022, 171,800 ECO3 Interim and ECO4 measures have been installed.
- In quarter 2 (April to June) 2023, 56,600 measures were installed in 13,700 households, of which 11,100 received ECO measures for the first time.

Chart 1: ECO measures installed by obligation, by month, to end quarter 2 2023 (Table 1.1)



Measures in quarter 2 2022 were delivered under either ECO3 Interim or ECO4 and were at a lower level than ECO3. There was a small increase in measures delivered in June 2022 as suppliers completed their paperwork on ECO3 Interim. From July 2022, ECO4-only delivery started very low but has continued to pick up across the remainder of the year and the start of 2023. In quarter 2 (April to June) 2023, 56,600 measures were installed in 13,700 households, of which 11,000 were first-time ECO recipients.

2. ECO Measures by Type

Tables 2.1 to 2.8 and 3.1 to 4.6

The number of measures installed for each phase of ECO, for monthly and quarterly time series.

Key Headlines

- Of the 3.6 million measures installed under ECO, 58 per cent have been insulation whilst 42 per cent have been heating measures.
- In quarter 2 (April to June) 2023, the most popular measure group was 'Other Heating', with 29,100 measures installed, the majority of which were heating controls.
- Almost half of all ECO4 measures installed have been heating controls.

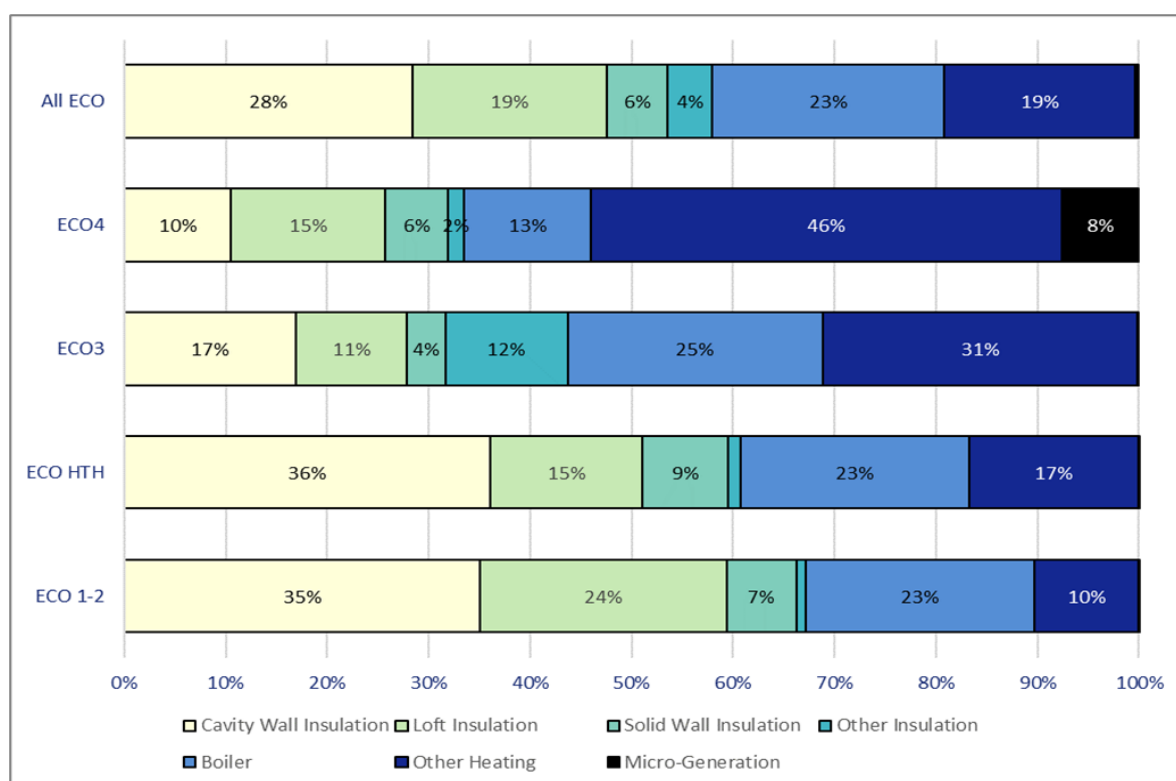
Measures by Type

Of all notified ECO measures installed to the end of quarter 2 2023, around 58 per cent were insulation measures and 42 per cent were heating measures. (Tables 2.6, 2.7, 2.8 and 2.8b).

ECO4 adopts a whole-house approach to energy efficiency improvement whereby multiple measures are installed in a property following a full assessment of the home's needs. Many homes eligible for the scheme must have an insulation measure installed before heating measures can be installed. More information can be found in the ECO4 delivery guidance published by Ofgem¹.

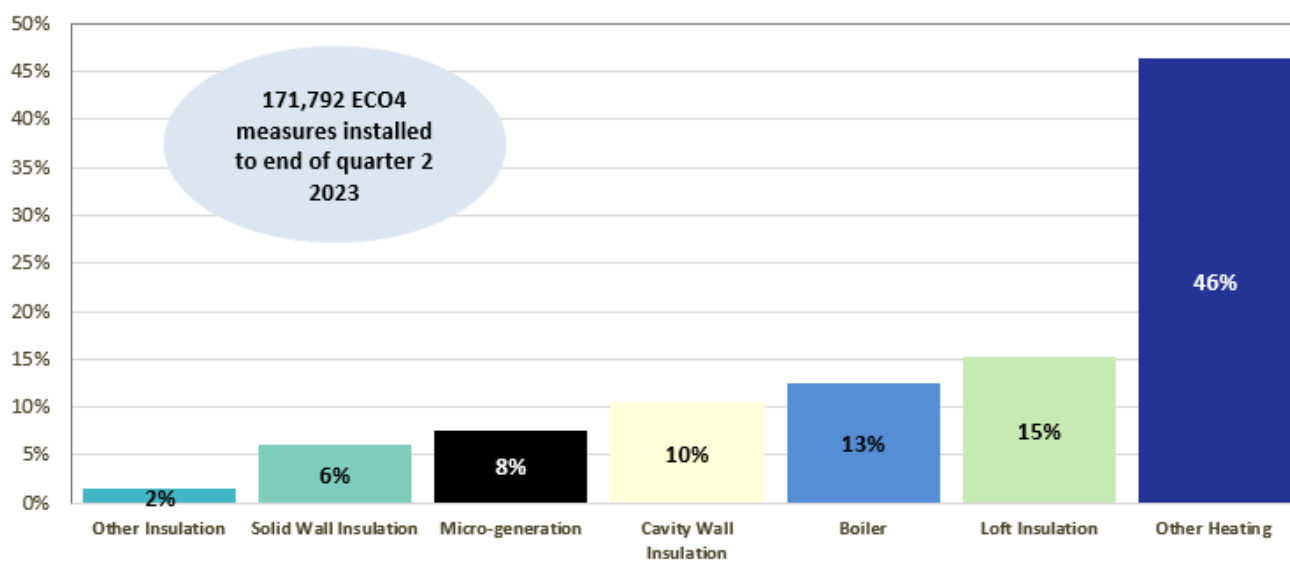
Under ECO4 (including ECO3 Interim), the share of heating measures has increased, with 67 per cent of ECO4 measures being heating, compared to around 56 per cent for ECO3 and 33 per cent in ECO1 and 2. For ECO4 to the end of quarter 2 2023, boilers represented 13 per cent of measures installed with a further 46 per cent from other heating measures (of which 97 per cent were heating controls) and 8 per cent from micro-generation measures. Heating control measures make up 45 per cent of total ECO4 measures installed to the end of quarter 2 2023. (Table 2.8b).

Chart 2: Share of all ECO measures installed, by measure type, by ECO phase, up to end June 2023 (Tables 2.6, 2.7, 2.8 and 2.8b)



¹ <https://www.ofgem.gov.uk/publications/energy-company-obligation-eco4-guidance-delivery>

Chart 3: Measures installed by type as proportions of total ECO4 (including ECO3 Interim) measures installed, to end quarter 2 2023 (Table 3.1)



Innovation Measures

Similar to ECO3, under ECO4 suppliers can deliver up to 10 per cent of their obligation through Innovation measures. Since the first measures were approved by Ofgem in March 2019, nearly 8,600 innovation measures have been installed. (Table 2.5 and 2.5b).

Across ECO4 (including ECO3 Interim), 1,100 innovation measures have been installed. Delivery of innovation measures under ECO4 were slow in the first few months. Three-quarters of the innovation measures installed under ECO4 were installed in quarter 2 of 2023. Overall, innovation measures under ECO4 have accounted for 0.6 per cent of measures installed.

Of all ECO4 innovation measures installed, smart heating controls have accounted for the highest proportion at 41 per cent, with solid wall insulation at 26 per cent, micro-generation at 23 per cent and cavity wall insulation at seven per cent. (Table 2.8b).

Flexible Eligibility

Local Authorities can determine eligible homes under the 'Flexible Eligibility' mechanism (Flex). The Affordable Warmth Obligation is measured through lifetime savings and up to 25 per cent of the ECO3 lifetime bill savings could be delivered through 'Flexible Eligibility'. The 'Flexible Eligibility' rules for ECO4 have changed and suppliers can now deliver up to 50 per cent of their obligation through this mechanism.

Since the introduction of 'Flexible Eligibility', 237,600 measures have been delivered through this aspect of the scheme up to the end of quarter 2 2023 (Tables 2.7, 2.8 and 2.8b). Under ECO4 (including ECO3 Interim), 25,000 measures have been installed under 'Flexible Eligibility', equivalent to 15 per cent of total delivery. (Table 2.8b).

Multiple Measures

Since the start of ECO, an average of 1.50 measures were installed per household receiving measures. This ratio has increased from 1.22 at the end of ECO1 (March 2015), to 1.26 at the end of ECO2 (March 2017) and at the end of ECO HTH (September 2018), to 1.45 at the end of ECO3 (March 2022).

Across the whole of ECO4 (including ECO3 Interim), the cumulative ratio of measures installed per household increased from 1.71 in April 2022 to 3.82 in March 2023.

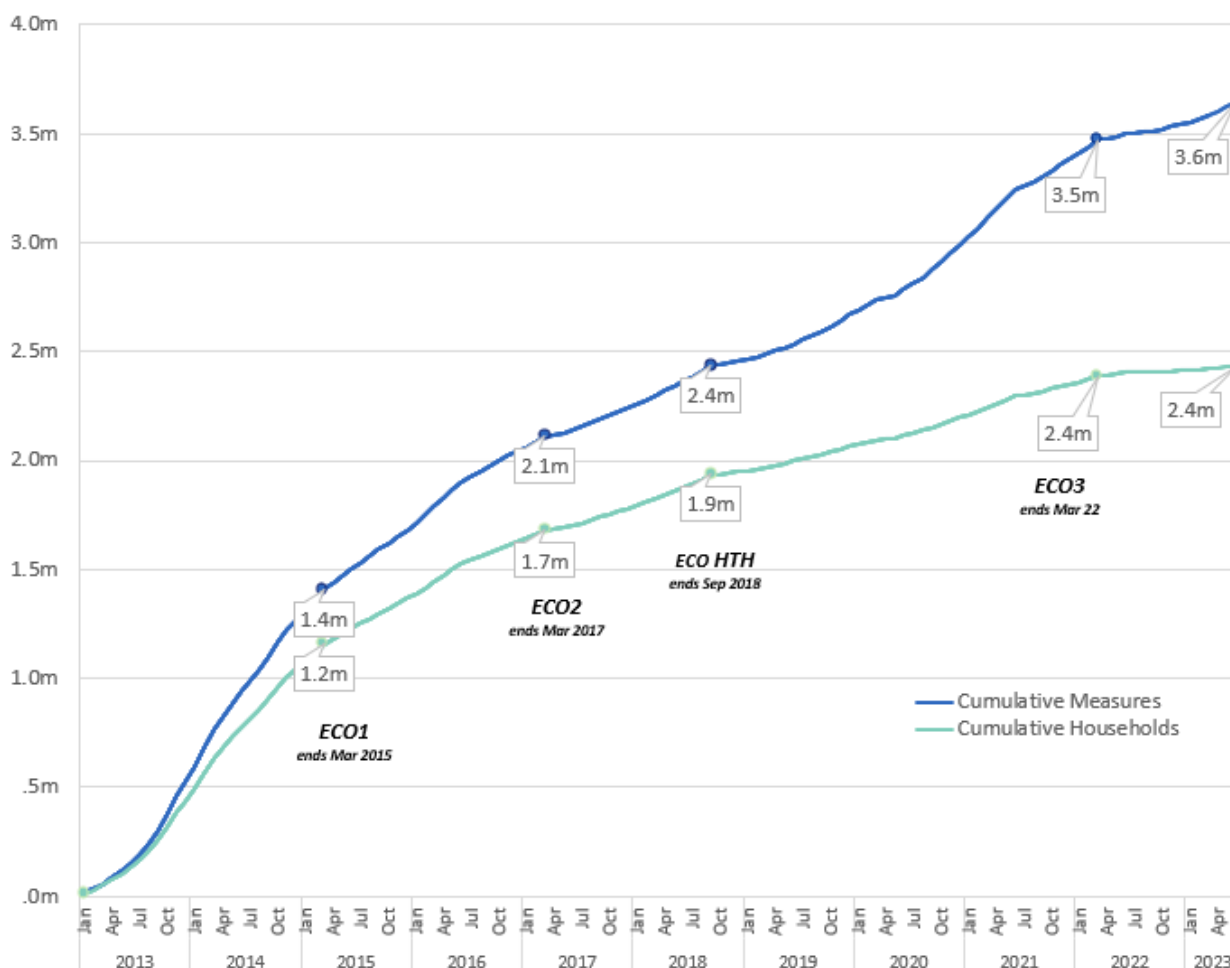
In quarter 2 2023, the average number of measures per household was 5.08. ECO4 has seen a large increase in the number of measures installed per household, with two types of heating control fitted on average for every property treated.

Solid Wall Minimum Requirement (SWMR) sub-obligation

Under ECO4, the Solid Wall Minimum Requirement (SWMR) target is an equivalent of 90,000 measures installed throughout the scheme. Previously under ECO3, suppliers could meet this requirement through installing solid wall insulation or solid wall alternative measures which achieve the same bill saving as would have been achieved by solid wall insulation. Under ECO4, suppliers can only meet the requirement by installing external or internal solid wall insulation in eligible solid wall premises.

Under ECO4 (including ECO3 Interim) to the end of quarter 2 2023, around 9,100 measures have been delivered under this sub-obligation.

Chart 4: Cumulative number of ECO measures installed and unique households receiving measures by month, to end of quarter 2 2023 (Tables 1.1 and 1.2)



3. ECO Household Characteristics

Tables 3.2 and 4.2 to 4.3

The number of measures installed and households receiving an ECO measure by household characteristics, including heating source, property type and tenure.

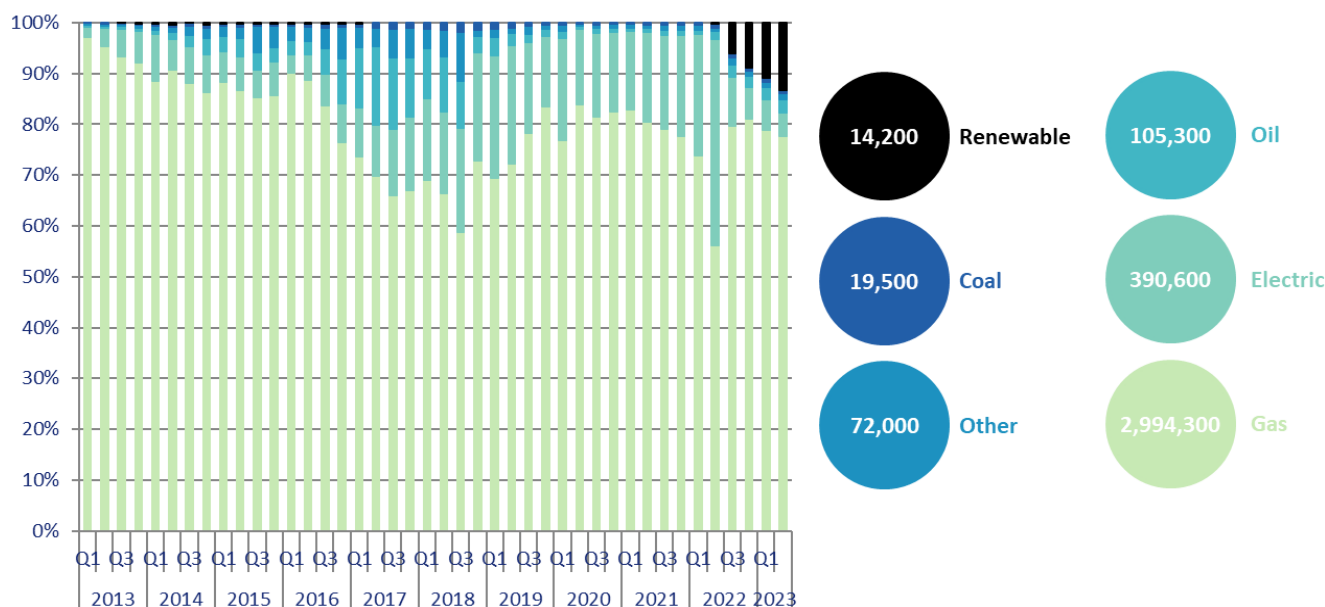
Key Headlines

- Under ECO, around 82 per cent of measures were installed in properties using gas.
- The majority (around 71 per cent) of measures were installed in houses.
- The most common tenure was owner-occupied, accounting for 71 per cent of ECO households.

ECO measures by property main fuel type

In total, to the end of quarter 2 (April to June) 2023, 2.99 million measures (82 per cent) were installed in properties that used gas as their main fuel type. The proportion of gas properties has decreased over the course of the scheme, from 97 per cent in the first quarter of ECO (Jan to Mar 2013) to 59 per cent in the final quarter of ECO Help-to-Heat (quarter 3, Jul to Sep 2018), before generally rising over subsequent quarters to between 70 to 80 per cent in quarters during ECO3. In quarter 2 of 2023, gas properties accounted for 78 per cent of properties receiving an ECO measure, excluding those properties with an unknown main fuel type. Since the start of ECO4 in April 2022, the proportion of properties receiving measures with a renewable heating source has gradually increased each quarter up to 13 per cent in quarter 2 of 2023. (Table 3.2, Chart 4).

Chart 5: ECO Measures by main fuel type of property (where known), by quarter, to quarter 2 2023 (Table 3.2)



Household receiving measure – property type and tenure

Over the whole of ECO, around 2.4 million households have received a measure through the scheme. Of these households, 1.7 million properties (71 per cent) were the house property type, with a further 18 per cent of properties being flats. In the latest quarter (April to June 2023), 82 per cent of properties receiving a measure were houses, with 8 per cent being flats. (Table 4.2).

For the whole of ECO, the most common tenure is owner-occupied with around 1.7 million households (70 per cent). The remainder of households were rented, with socially rented households accounting for 16 per cent, and private rented households 14 per cent. (Table 4.3).

4. ECO Regional

Tables 3.3 to 3.6, 4.1 and 4.4 to 4.5

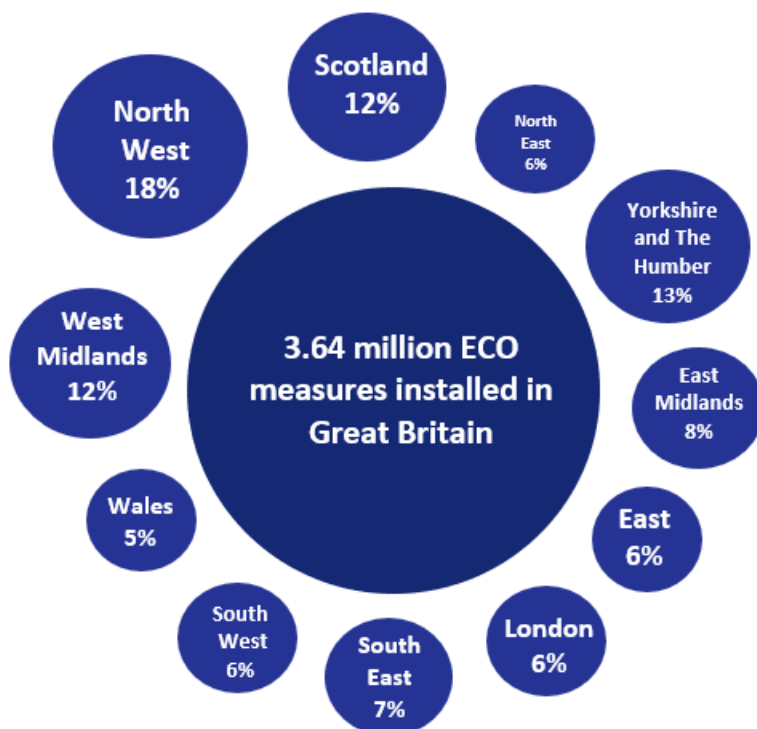
The number of measures installed and households receiving an ECO measure by region, local authority, and parliamentary constituency on a quarterly basis.

Key Headlines

- Across ECO, nearly one fifth of ECO measures were installed in the North West of England.
- To date, around nine per cent of households in Great Britain have had an ECO measure installed.

Regional Trends

Chart 6: ECO measures by region, up to the end of quarter 2 2023 (Table 3.3)

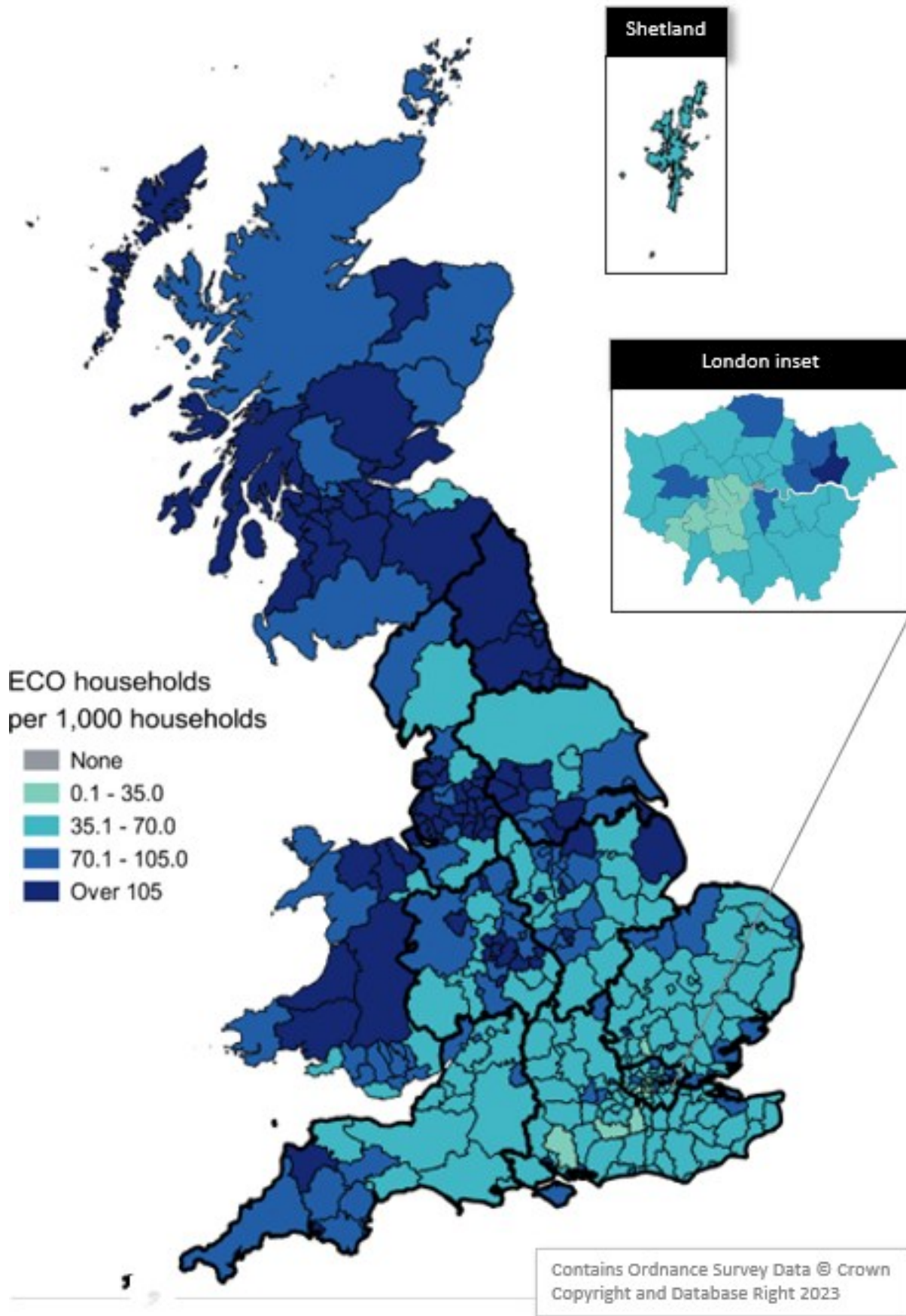


For the second quarter of 2023, ECO4 measure delivery by nation or region was:

- 45,400 measures in England, equivalent to 80 per cent of all measures.
- 4,400 measures in Scotland, equivalent to eight per cent of all measures.
- 6,800 measures in Wales, equivalent to 12 per cent of all measures.
- The West Midlands had the highest regional delivery in England, with 9,900 measures installed equivalent to around 17 per cent of all measures. (Table 3.3)

Around nine per cent of all households in Great Britain had a measure installed under ECO. This is equivalent to around 90 per 1,000 households, up to the end of quarter 2 2023. For England, there were around 86 measures per 1,000 households, with five regions (North West, North East, West Midlands, Yorkshire and the Humber, East Midlands), each having a rate above the England average. The North West and North East regions had the highest rates in England, with 132 and 123 households with ECO measures per 1,000 households, respectively. There were around 128 measures per 1,000 households in Scotland and 91 per 1,000 households in Wales (Map 1, Table 4.1, and Table 4.4).

Map 1: Households in receipt of ECO measures by Local Authority per 1,000 households, to end of quarter 2 2023 (Table 4.4)

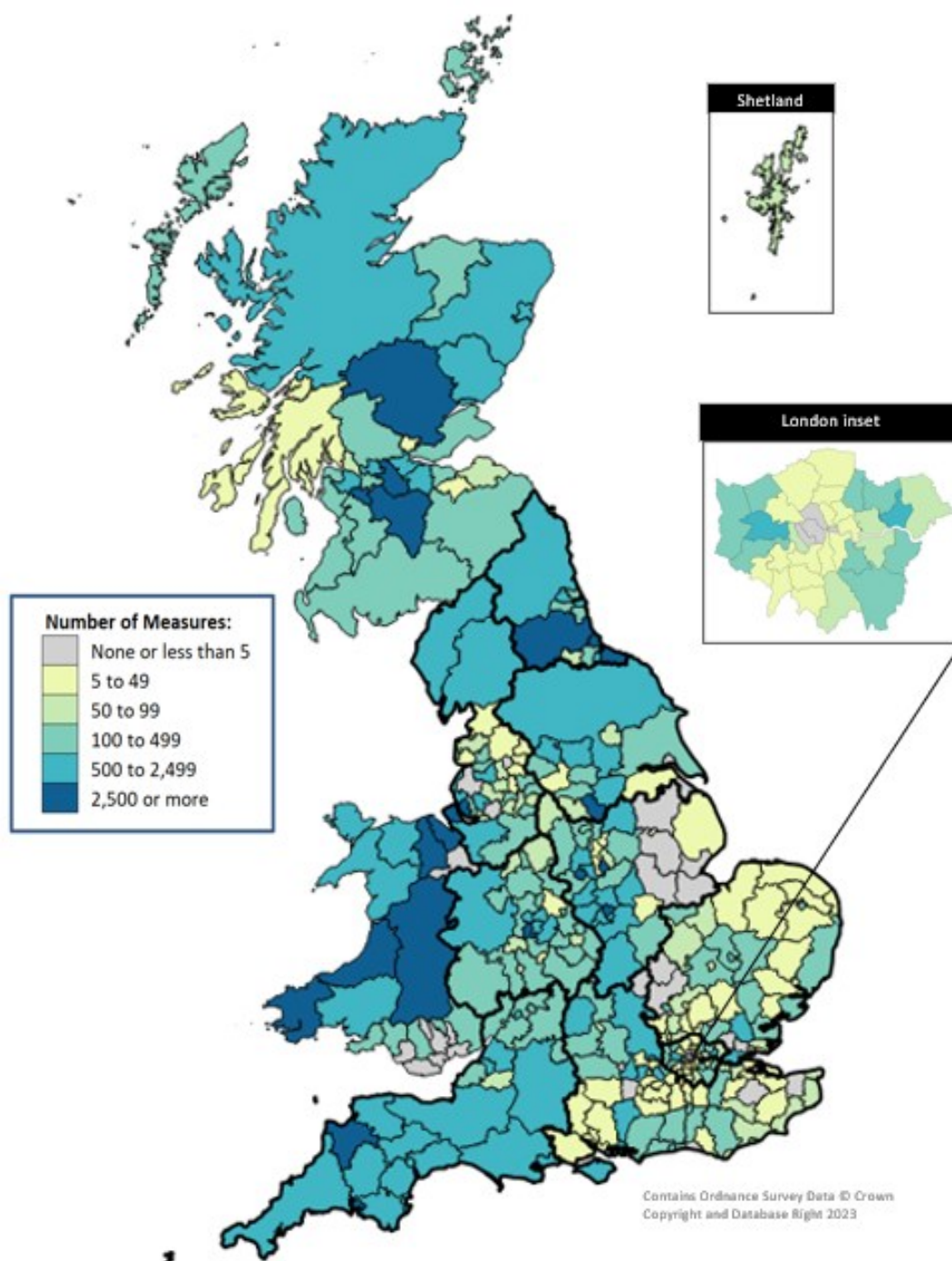


Flexible Eligibility

Local Authorities can determine eligible homes under the 'Flexible Eligibility' mechanism (Flex). The Affordable Warmth Obligation is measured through lifetime savings and up to 25 per cent of the ECO3 lifetime bill savings could be delivered through 'Flexible Eligibility'. The 'Flexible Eligibility' rules for ECO4 have changed and suppliers can now deliver up to 50 per cent of their obligation through this mechanism.

To the end of quarter 2 2023, 238 local authorities had 50 or more measures installed through Flexible Eligibility, of which 94 local authorities had over 500 measures installed. Scotland and the East Midlands both had the highest number of Flex measures installed, with around 18 per cent each of the Flex measures in Great Britain. (Table 3.5).

Map 2: ECO measures installed through Flexible Eligibility, by Local Authority, to end of quarter 2 2023 (Table 3.5)



Local Authorities are shown only if they have at least five flexible eligibility measures. In total, 327 Local Authorities had at least one flex measure up to June 2023.

5. ECO Costs

Tables 6.1 to 6.6

The costs of delivering and administering the ECO scheme as reported by energy suppliers.

ECO costs are updated in the monthly headline release following a quarterly publication. The figures below are from the June 2023 headline release and will be updated in due course.

Key Headlines

- The total ECO costs reported by suppliers (delivery and administrative) to the end of quarter 1 (January to March) 2023 were around £6.7 billion.
- The average cost of delivery under ECO4 is around £4,300 per measure, up to the end of quarter 1 2023.

ECO Costs

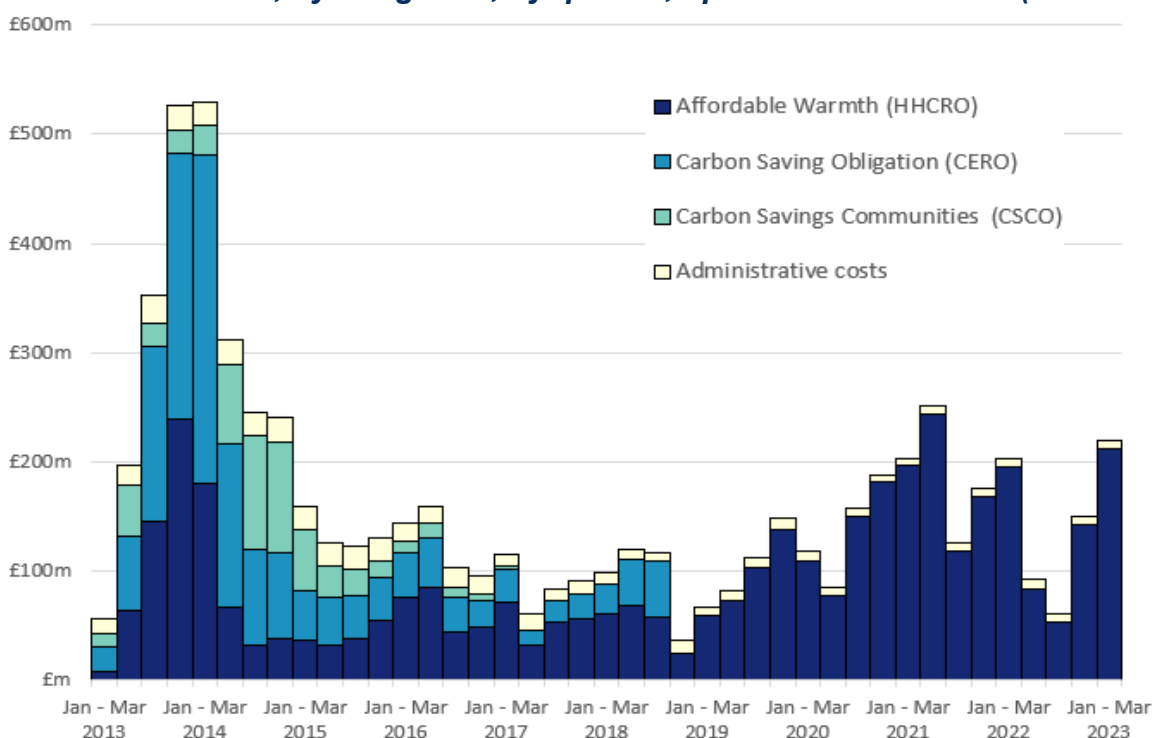
The total ECO delivery costs, from quarter 1 2013 up to the end of quarter 1 2023, were around £6.1 billion, with an additional £547 million in administrative costs. Therefore, the total cost of ECO up to that date was around £6.7 billion (Table 6.1).

The delivery costs for ECO3 up to the end of quarter 1 2022 were £1.8 billion, with 31 per cent of these costs funding boiler and other heating systems (Table 6.6). The delivery costs for ECO4 (including ECO3 interim), April 2022 up to the end of March 2023 were around £491 million, with an additional £33 million in administrative costs (Table 6.1, Chart 6)

As measure delivery profile and volumes have varied over the course of ECO, so have the associated costs, as illustrated in the chart below (Table 6.1). The latest quarter (January to March 2023) saw the highest delivery costs so far under ECO4 (£211m), with the increase on the previous quarter's delivery costs, reflecting the rise in measure delivery during that period.

In Quarter 1 2023, the average delivery cost per measure for ECO4 was around £4,800, a five per cent increase on the equivalent average of around £4,600 for Quarter 4 2022. For ECO4 overall (including ECO3 interim) up to the end of March 2023 the average delivery cost per measure is around £4,300 (Table 2.5b and Table 6.1)

Chart 7: ECO costs, by obligation, by quarter, up to end March 2023 (Table 6.1)



6. Green Deal

Tables 7.1 to 7.4

The number of Green Deal Plans and measures installed. Table 7.1 contains monthly data up to July 2023, but in Chart 8 only complete quarters are shown.

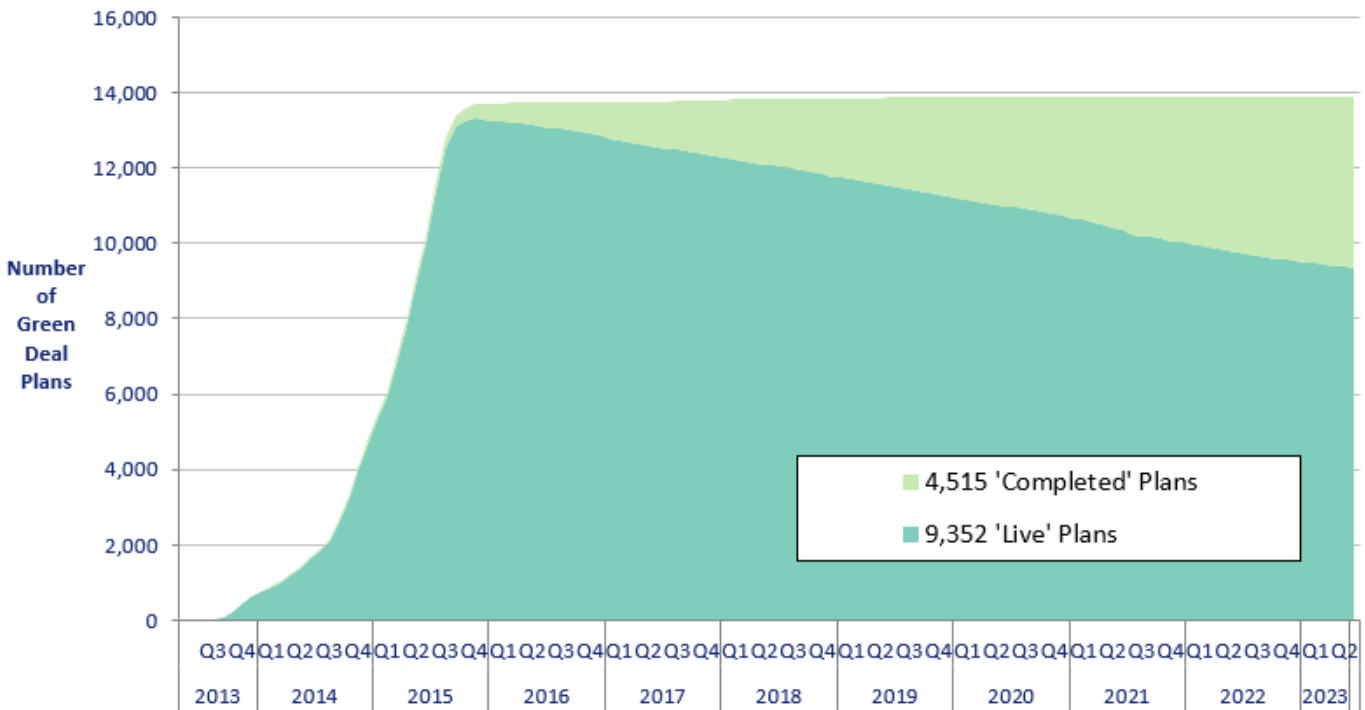
Key Headlines

- A total of 13,867 Green Deal Plans.
- Around 33 per cent of plans classified as 'Completed' at the end of July 2023.
- In the last three months (May 2023 to July 2023) 81 plans were completed.

Under the Green Deal scheme, a total of 13,867 Plans were classified as either 'live' or 'completed' at the end of July 2023. Of these, 9,321 were 'Live' (all measures installed) and 4,546 were 'Completed' (all measures installed and paid off). At the end of July 2023, around 67 per cent of all plans were 'Live'.

Over the last three months (May 2023 to July 2023) 81 plans were 'Completed', compared to 87 completions in the previous three months (February 2023 - April 2023) (Table 7.1).

Chart 8: Domestic Green Deal Plans, by 'Live' or 'Completed' status, by quarter, to end of quarter 2 2023 (Table 7.1)



7. Benefits Monitoring

Tables 1.4 and 2.1

The estimated carbon, energy and bill savings from measures installed through ECO and Green Deal (GD).

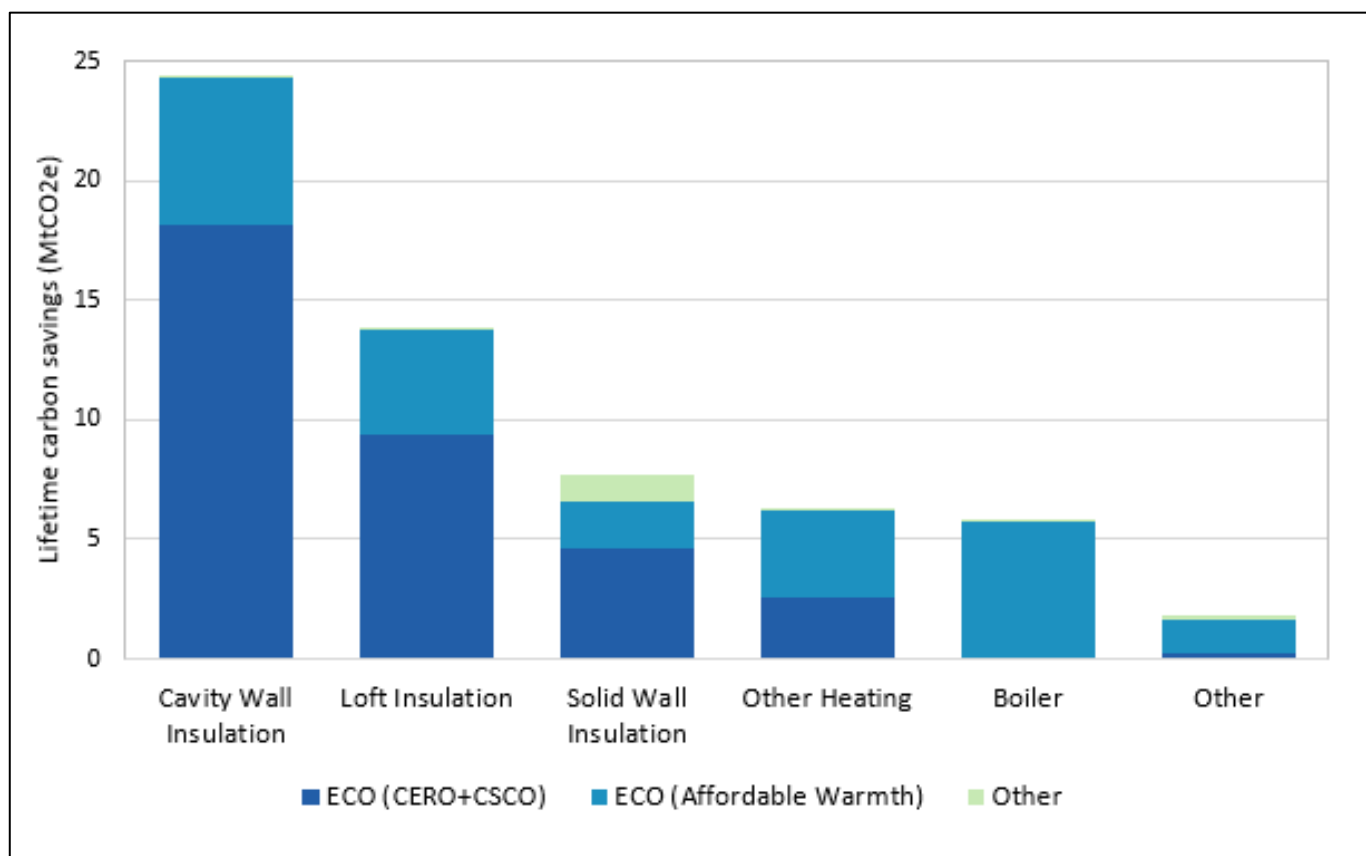
The carbon, energy and bill savings in this section have not been updated with data on ECO4. The Ofgem ECO4 register is still undergoing development, limiting the variety of data currently available. ECO4 benefits monitoring information will be available in a subsequent quarterly release.

Key Headlines

- Across ECO and GD schemes to the end of quarter 1 2022, the estimated lifetime carbon savings from these schemes is up to 60 MtCO₂.
- The associated estimated energy savings of these measures was up to 224,400 GWh.
- Around 1.96 million Affordable Warmth ECO measures were installed up to the end of quarter 1 2022, which are estimated to deliver £19.3 billion worth of notional lifetime bill savings.

ECO and Green Deal Framework ² Estimated Lifetime Carbon and Energy Savings

Chart 9: Carbon Savings by Measure Type from January 2013 to end of March 2022 (Table 1.4)



² The estimated carbon and energy savings relate to measures installed through the following schemes: ECO, Cashback, GDHIF and Green Deal Plans.

8. Technical Information

Data in this release

Data are collected by DESNZ from a range of administrative sources. For these quarterly statistics, the main sources of data on the schemes are:

- Ofgem for ECO data – scheme administrator collects data from energy companies on ECO delivery.
- Green Deal Central Charge Database – administer and manage Green Deal Plans
- NEC Software Solutions UK – manage national lodgement of Green Deal measures
- Energy Savings Trust Scotland (EST) – manage lodgement of Green Deal measures in Scotland
- Green Deal Oversight and Regulation Body (ORB) – administer Green Deal organisations certification

Further administrative datasets are used to provide the geographic breakdowns included in this release. Reference geography datasets and map boundary files are obtained from the Office for National Statistics (ONS), through the [Open Geography Portal](#).

Methodology and revisions

The statistics presented in this release cover measures installed up to June 2023. The quarterly reports are now published earlier but the ECO costs data for the latest quarter are not yet available as further data quality assurance is carried out. ECO Cost data is included in this release up to March 2023.

Further information regarding the methodology and quality assurance process used to produce estimates for this statistical series can be found here: [Household Energy Efficiency Statistics Methodology Note](#)

Revision's policy

Figures for the latest periods are provisional and are liable to subsequent revision. The [DESNZ statistical revisions policy](#) sets out the revisions policy for these statistics, which has been developed in accordance with the UK Statistics Authority [Code of Practice for Statistics](#).

Scheme Information

The Energy Company Obligation (ECO) was introduced in January 2013 to reduce energy consumption and support people at greater risk of living in fuel poverty. The larger energy companies are set obligations to install insulation and heating measures to achieve reductions in energy usage and heating costs.

The Green Deal (GD) is a government initiative that is designed to help homeowners install energy efficiency measures into their properties, and the costs of these measures are paid back through their energy bill over a period of time; this is in the form of a Green Deal Finance Plan (GD Plan).

Definitions

The Energy Company Obligation required the larger energy suppliers to achieve savings in homes. (CERO & CSCO are measured in terms of lifetime carbon savings, Affordable Warmth is measured in terms of lifetime bill savings).

Energy Suppliers are set targets for each phase of the scheme based on two criteria: the number of customers that they have and the amount of energy that they supply to domestic properties in Great Britain. This threshold remained the same for ECO1, 2 & Help-to-Heat but tightened through ECO3. Targets for ECO4 have remained the same as ECO3. The criteria for ECO4 are as follows:

- Number of domestic customers must be 150,000 or more
- Electricity supply to domestic customers must be 300 GWh or more
- Gas supply to domestic customers must be 700 GWh or more

Suppliers are obligated to participate in the scheme if they exceeded both the customer number threshold and the electricity or gas supply threshold as of 31 December of the previous year. The ECO4 Phases are as follows:

- Phase 1: 27 July 2022 to 31 March 2023
- Phase 2: 1 April 2023 to 31 March 2024
- Phase 3: 1 April 2024 to 31 March 2025
- Phase 4: 1 April 2025 to 31 March 2026

Within the Energy Company Obligation there are sub-obligations

<i>Carbon Saving Target (CERO)</i>	This covered the installation of measures like solid wall and hard-to-treat cavity wall insulation, which ordinarily cannot be financed solely through Green Deal Plans. From April 2017 this included a rural sub-obligation where at least 15 per cent of a supplier's CERO for Help-to-Heat must be achieved in rural areas. (Closed end September 2018)
<i>Carbon Saving Communities (CSCO)</i>	This provides insulation measures to households in specified areas of low income. It also makes sure that 15 per cent of each supplier's obligation is used to upgrade more hard-to-reach low-income households in rural areas. (Closed end March 2017)
<i>Affordable Warmth³ (HHCRO)</i>	This provides heating and insulation measures to consumers who receive particular means-tested benefits. Since April 2017 it enables those in social housing living in E, F and G rated properties to receive insulation measures, and some heating measures. This obligation supports low-income consumers who are vulnerable to the impact of living in cold homes, including the elderly, disabled and families. Under ECO4, 100% of the obligation is based on HHCRO. The obligation was measured in terms of annual bill savings (previously measured in terms of lifetime savings for ECO3).
<i>Flexible Eligibility</i>	Local Authorities can determine eligible homes under the new 'Flexible Eligibility' mechanism, introduced in 2017. Up to 50% of the Obligation can be delivered through Flexible Eligibility under ECO4, up from 25% under ECO3. Households can be assessed by Local Authorities, the Devolved Administrations or suppliers to be 'living in fuel poverty'; or assessed to be 'living on a low income and vulnerable to cold'.
<i>Innovation Measures</i>	Under ECO4, suppliers are able to meet up to 10% of their obligation to deliver innovation measures to eligible households. A further 10% can be used to monitor the actual energy performance of measures in homes.

³ Also known as The Home Heating Cost Reduction Obligation

9. Further Information

Recent publications of interest

Household Energy Efficiency Detailed statistics (annual)

For detailed analysis of ECO and GD Plans, along with home insulation levels across Great Britain see the [Annual Household Energy Efficiency Detailed Statistics](#) publication.

Green Homes Grant Local Authority Delivery statistics

For statistics monitoring the Green Homes Grant Local Authority Delivery scheme across England, see the [Green Homes Grant Local Authority Delivery](#) statistics.

Social Housing Decarbonisation Fund statistics

For statistics monitoring the Social Housing Decarbonisation Fund scheme across England, see the [Social Housing Decarbonisation Fund](#) statistics.

Smart Meters quarterly statistics

For estimates on the roll-out of Smart Meters in Great Britain, covering meters operating and meters installed, see the [Smart Meters](#) statistics.

Renewable Heat Incentive statistics

For statistics on deployment data for the domestic and non-domestic Renewable Heat Incentive (RHI) to support the uptake of renewable heat, see the [Renewable Heat Incentive](#) statistics.

Energy Trends

For detailed data on supply and demand of coal, oil, gas, electricity, and renewables in the United Kingdom, see the [Energy Trends](#) statistics.

Energy Consumption in the United Kingdom (ECUK)

For detailed data on end use estimates of energy in the UK, see the [Energy Consumption in the United Kingdom \(ECUK\)](#) statistics.

Sub-national total final energy consumption

For findings of the sub-national energy consumption analysis in the UK for all fuels, for the period covering 1 January to 31 December, with gas consumption covering the annual period from mid-May, see the [sub-national total final energy consumption](#) statistics.

Sub-national electricity consumption

For electricity consumption by consuming sector for Great Britain and devolved administration areas, see [the sub-national electricity consumption](#) statistics. Data are based on the aggregation of Meter Point Administration Number readings as part of DESNZ's annual meter point electricity data exercise.

Sub-national gas consumption

For gas consumption by consuming sector for Great Britain, and devolved administration areas, see the [sub-national gas consumption](#) statistics. Data are based on the aggregation of Meter Point Reference Number readings throughout Great Britain as part of DESNZ's annual meter point gas data exercise. Data are subject to a weather correction factor to enable comparison of gas use over time.

Domestic Energy Interactive Map

For an interactive map for indicators of domestic energy efficiency, including the percentage of households receiving ECO measures down to Lower Layer Super Output Area up to December 2022, see the [Domestic Energy Map](#). The map also shows the number of loft and wall insulation measures installed.

Future updates to these statistics

The next headline release on the gov.uk website is planned for publication at 9.30am on 21st September 2023 and will contain the latest available information on headline ECO measures up to the end of July 2023.

On 30th March 2023, the annual detailed statistical release was published. This contains additional estimates on insulation across Great Britain.

The next quarterly release is planned for publication at 9.30am on 30th November 2023.

National statistics

This is a National Statistics publication. National Statistics status means that our statistics meet the highest standards of trustworthiness, quality, and public value, and it is our responsibility to maintain compliance with these standards.

The statistics last underwent a [full assessment](#) against the [Code of Practice for Statistics](#) on 12 June 2014.

Pre-release

Some ministers and officials receive access to these statistics up to 24 hours before release. Details of the arrangements for doing this and a list of the ministers and officials that receive pre-release access to these statistics can be found in the [DESNZ statement of compliance](#) with the Pre-Release Access to Official Statistics Order 2008.

Uses of these statistics

These statistics are used by Government to monitor the delivery and effectiveness of the ECO and GD schemes. They are used to monitor the delivery of the ECO obligation and the share of the obligation delivered through key aspects of the scheme, including Flexibility Eligibility and innovation measures. The data are used within the [National Energy Efficiency Data-framework](#) to assess the impact of these measures in different types of homes.

User engagement

Users are encouraged to provide comments and 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 should be sent to the [Energy Efficiency Statistics](#) mailbox.

The DESNZ statement on [statistical public engagement and data standards](#) sets out the department's commitments on public engagement and data standards as outlined by the [Code of Practice for Statistics](#).

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