

### Climate Change – GHG emissions

This methodology document covers the following commitment areas and KPIs along with how we calculate our carbon footprint:

Commitment	KPIs
Climate neutral across our operations by 2035, aligned to a 1.5 degree pathway	Percentage reduction of Scope 1 and 2 market- based greenhouse gas emissions across the Group (baseline 2015/16)
Source 100% of our electricity from renewable sources	Percentage electricity from renewable sources: Proportion of contractually committed volumes from Grid PPAs and on-site generation as a percentage of energy consumption at a Group level ('contracted additional')

#### TIMEFRAME

The published figures represent Tesco's carbon footprint for our full financial year 2021/22. This year comprises 52 weeks, ending 26th February 2022.

#### SCOPE

The following methodology has been applied to the carbon footprint calculated for this current year and all prior stated years.

We follow the "operational control approach" to help us determine when to include emissions within our carbon footprint. Our carbon footprint boundary includes operations where we have full authority to introduce and implement operating policies. This means that we include data from our major subsidiaries such as Booker, Tesco Bank, One Stop, and Dunnhumby as well as Tesco stores and DCs where we have operational control. In cases where Tesco divests an asset part way through a financial year, and thus relinquishes operational control, emissions from this source will not be included in the Tesco annual carbon footprint.

In the case of emissions from distribution, we also include journeys which are provided by third parties but have been arranged by Tesco. These are largely included in our Scope 3 emissions but there are certain circumstances in which we would include this in our Scope 1 emissions, such as if the operations are fully planned by Tesco, and Tesco has dictated the vehicle specifications.



#### METHODOLOGY

We have calculated our carbon footprint according to the World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD) Greenhouse Gas (GHG) Protocol, which is the internationally recognised standard for corporate carbon reporting. We use the relevant year's DEFRA factors for converting consumption to emissions, except for non-UK entity electricity consumption for which we use IEA factors. This breaks down emissions into four categories for reporting – Scope 1, 2 (market and location based), 3, and Outside of Scopes.

- Scope 1 These are the direct GHG emissions that originate from assets that Tesco owns or controls. For example, these include emissions from gas and other fuel consumption in our stores, distribution centres and offices globally. We also include emissions from fuel consumption in Tesco owned and leased vehicles transporting the products that we sell. As well as energy, we also include emissions from refrigerant gas leakage from systems in our stores and our vehicles.
- **Scope 2** This includes the indirect GHG emissions from the generation of electricity and district heating that Tesco uses. In accordance with the Greenhouse Gas Protocol, Scope 2 Guidance we calculate our electricity emissions using both the location-based and market-based methods.
  - Market-based Scope 2: Our market-based emissions have been calculated by collecting generation data directly from our suppliers in countries where Tesco has a choice in its electricity supplier. All of the supplier-specific factors applied relate to their most up-todate production mixes which are often the year prior to reporting year but can include some periods within the reporting year too. Our Scope 2 market-based footprint includes Tesco's purchase of electricity backed by Renewable Energy Guarantees of Origin (REGO) or Renewable Energy Certificates (RECs).
  - Location-based Scope 2: We have used emission factors from BEIS' GHG Conversion Factors for Company Reporting 2021 and have determined the Scope 2 electricity impacts for non-UK electricity from the International Energy Agency (IEA) figures (of CO<sub>2</sub> rather than CO<sub>2</sub>e). In line with current UK Government guidance, an emissions factor of zero has been applied for renewable electricity only where this has been generated from sources owned or controlled by Tesco in our Scope 2 location-based emissions.
- Scope 3 We currently report against categories 3, 4 and 6 within the GHG Protocol definition of Scope 3, covering:

**Category 3** - Transmission and distribution impacts of electricity and heat supply and well-totank embodied impacts of fuel.

**Category 4** - Distribution arranged by Tesco but provided by third parties that Tesco would otherwise need to fulfil.

Category 6 - Business travel by air, rail, taxi, and short-term hire car.

• **Outside of Scopes** – This relates to biogenic emissions that are considered to have a net zero carbon dioxide impact due to the carbon they absorb during their growth. When they are burned to produce energy, this carbon is released, and the associated emissions are recorded as being 'outside of scopes' in accordance with the GHG Protocol.

Our carbon footprint is measured in carbon dioxide equivalent or  $CO_2e$ . Different greenhouse gases have different effects on the climate, and  $CO_2e$  is a way of standardising the global warming effect of these emissions to ensure comparability.



We present our footprint in three ways:

- Gross emissions: Total CO<sub>2</sub>e emissions within the boundaries of our footprint.
- Net emissions: Total CO<sub>2</sub>e emissions within the boundaries of our footprint minus the emissions credited through renewable energy we generate and provide to the national electricity grid.
- Emissions per square foot of Tesco stores and distribution space: The intensity of our Scope 1 and Scope 2 emissions in the context of the amount of net sales area they relate to. This excludes storerooms, offices, and third-party leased space.

#### How we gather the necessary data

Our carbon data is collected by managers in each of the countries in which we operate and entered into an internet-based reporting tool that has been designed specifically for our carbon footprint process. This tool has been developed to reflect the requirements of the GHG protocol. The tool calculates CO<sub>2</sub>e emissions for each country and Tesco group as a whole, as well as tracking against our Key Performance Indicators (KPIs) and a number of other measures. All data is quality checked and reviewed by our analysis team.

#### **Data estimations**

#### Diesel use by suppliers

Where we use 3rd party contractors to deliver goods from our DCs to stores, we estimate the amount of diesel they have used.

Previously, as we did not have access to our 3rd Party Logistics (3PL) average Miles per Gallon, we had to estimate our usage by proxy using the information we have for Tesco's own operations, since we use similar vehicles and deliver along the same routes. Below is the old calculation for this:

## Tesco cases delivered by 3PL x average fuel/case for Tesco owned deliveries x a trunking factor to account for trunking and backhaul

As of Tesco FY22/23, we have access to new 3PL data which has enabled us to improve the accuracy of our fuel consumption estimations, using the below calculation:

Tesco - attributed 3PL mileage / average 3PL MPG

#### Floor Area

We calculate our total Group retail floor area in order to report emissions intensity per square foot. Some of our stores are in mall spaces, and we also have store openings and closures throughout the reporting year, and therefore we need to rely on a degree of estimation to gain a complete number for our floor area. We do this by using previous year data as a base, and applying an average floor area per store format for each store opening / closure, and any stores for which we do not have accurate square foot readings.

#### Data gaps

Where data has not been provided by an area of the business included within the boundaries of carbon footprint, we will estimate the relevant impacts by using the most appropriate data available (e.g. historic consumption, annual extrapolation, average emissions).



#### **Excluded data**

For a small number of areas actual data was unavailable and reasonable estimates could not be produced. The reporting and assurance processes have concluded that these areas are not of significance to the carbon footprint data overall. We will continue to improve the quality of our data and will work to obtain actual data for these sources in future.

- Emissions from diesel used in back-up generators in the UK
- Employee car use for business and short-term hire car travel outside of UK
- Taxis for non-UK countries
- Emissions from asset sites these are vacant buildings that we own but have not yet developed into stores and therefore have minimal emissions

In line with our operational control approach, emissions from the following businesses and sources are not included in our footprint:

• Tesco Mobile services - these are delivered using Virgin O2's mobile network infrastructure and these emissions are reported within Virgin O2's carbon footprint. Tesco Mobile concessions within Tesco stores are counted as part of our scope 1 and 2 emissions.

#### **Baseline and restatements**

We use 2015/16 as the baseline year for our carbon footprint reduction as that is the reference year we used to set our science-based targets. In order to accurately reflect true progress in carbon reduction, we recalculate our baseline and all prior year emissions for relevant significant changes that exceed our materiality threshold. More information on our baseline year recalculation policy can be found <u>here</u>.

# KPI: Percentage electricity from renewable sources: Proportion of contractually committed volumes from Grid PPAs and on-site generation as a percentage of energy consumption at a Group level ('contracted additional')

#### **METHODOLOGY:**

We use the below calculation for the proportion of our electricity which comes from renewable sources, i.e. from renewable Power Purchase Agreements (PPA) both onsite and offsite, renewable generation from owned assets onsite, and purchased in the form of Renewable Energy Certificates (RECs):

(Electricity generated onsite from owned assets + volume generated from PPAs both onsite and offsite + purchase of RECs) divided by our total electricity consumption

To calculate the proportion of electricity we procure from sources that contribute <u>additional</u> renewable electricity to the grid, we exclude RECs. This is tracked as an independent KPI and is calculated as follows:

(Electricity generated onsite from owned assets + volume generated from PPAs both onsite and offsite) divided by our total electricity consumption

#### **DEFINITIONS:**

**Renewable Power Purchase Agreements (PPAs) =** contracts with a specific supplier to represent energy produced at assets off-site and on-site from an eligible renewable energy resource. These must



demonstrate additionality. On-site PPAs refer to renewable energy generated from assets hosted, but not owned, by Tesco on-site. To calculate our total contracted volumes via PPAs, we refer to the P50 forecast that estimates total annual output for each PPA.

**Onsite Generation =** generation of energy from assets that Tesco owns on-site.

**Renewable Energy Certificates (RECs) =** Government-backed certificates that producers of renewable energy are issued with for the electricity they generate. RECs certify that the electricity comes from renewable sources.

#### ASSURANCE

Deloitte LLP was engaged to provide independent limited assurance over selected greenhouse gas emissions data highlighted with ◊ in our yearend publications using the assurance standard ISAE (UK) 3000 and 3410. Deloitte's full assurance statement is available at: www.tescoplc.com/sustainability/reporting-hub

