

Farm Carbon Calculator Guide

Quick Start Guide

How to use the Farm Carbon Calculator to calculate your farm's carbon footprint. Completing this process can take between 1 – 3 hours depending on the complexity of your farm but does not have to be all at once. Our [resources](#) page and website contains lots of guides and information – and our friendly team are here to help too.

Skip to ↴

[1 → Create an account or login](#)

[2 → Gather your data](#)

[3 → Create a report](#)

[4 → Enter your data](#)

[5 → View live results](#)

[6 → Your report](#)

[Extra → Comparing reports](#)

[Extra → Investigate farm scenarios](#)

[Help](#)

[Watch our quick start video guide →](#)



More of a visual person? click the image to open and watch our quick-start video guide

1 → Create an account or login

It's quick and easy to create an account.

On the [calculator website](#) click **Register** for a free account, or **Login** with your username if you already have one.

Once logged in you can secure your account by setting up two-factor authentication with an authenticator app on your phone. We recommend you take this simple step.

Our email newsletter is a key source of information for relevant events, and useful information to help reduce carbon, and about the calculator tool. You can sign up from your dashboard.

[Register](#)[Login](#)

Complete your setup

- ✓ Protect your account
- ✓ Sign up to newsletter
- ⓘ Tell us what you think

2 → Gather your data

Gather or collate information about your farm together so you can enter this into the calculator. We have resources available that will get you thinking and show you what information you need at hand to complete a carbon footprint report. or you can skip to step 3. Use our **data gathering guide** to find out what to include. Use our **data collection spreadsheet** if you want to record your information offline first.

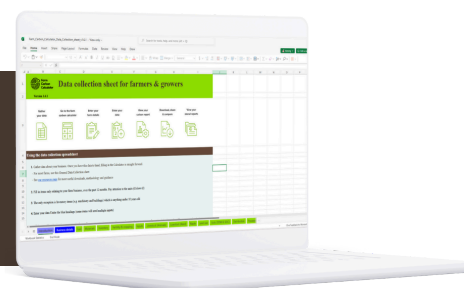
You'll be asked about the activities, purchases and processes on your farm over the past 12 months.



Download our [data gathering guide](#) (pdf)



Download the [data collection spreadsheet](#)



Once you know where to get your data, and the formats required, it's a lot quicker to collate the next time you do a carbon report.

Gathering your data together can be hard or just time consuming. **If you don't know some information or can't find it all, move on to the next step.** Don't let this stop you from receiving your carbon footprint report. If you have questions contact → calculator@farmcarbontoolkit.org.uk

3 → Create a report

Once logged in you will reach your **Dashboard** where all your carbon reports are held.

- › Click **Add New Report** which begins a new report and opens the report details page
- › Enter some details about your report, and about your farm to start with. Some fields are mandatory – give your report a name, enter a reporting period, select some report options, and if you want to you can enter some farm information which allows us to build a better report and benchmarking for you.

Your report is created when you click **Save**.

- › At any time you can return back to your **Dashboard** to continue, edit or view any of your reports.




4 → Enter your data

You will enter your information on the Data Entry pages as shown below.

Categories

Fuels	Materials	Inventory	Crops	Inputs	Livestock	Waste	Distribution	Sequestration	Processing
-------	-----------	-----------	-------	--------	-----------	-------	--------------	---------------	------------

Fuels ⓘ

+ Add New

Live results

Emissions Totals

Type	t CO ₂ e
Total:	0.00

Click on any **category** from Fuels through to Processing in any order to add your information or just explore what is available. You can start by adding your data directly here, or refer back to our data collection guide or spreadsheet for your information to begin entering it. Both resources mirror the categories in the calculator.

Click on **+ Add New** and follow the drop down options available to enter your information under each category. Add all data that is applicable to your farm business. Follow the helpful hints throughout wherever you see this symbol: ⓘ



Your entries are **automatically saved**.

Check each category, and when you're done you can check mark as complete to record your progress.

Mark as complete 



How much information do I need to add?

There is no easy answer as to what constitutes a complete carbon footprint of your farm.

Think who or what is your report is for? For example to see your carbon hotspots you will not need the same level of detail as if you were wanting to know the differences in emissions between two years of similar activity.

If you are reporting for someone else – check with them what their requirements are and if you have doubts about your footprint our advisors can also validate reports by using our knowledge of farming systems and common areas.

Try to enter data entries in most if not all categories and make sure you have covered all the main activities on your farm.

Remember you can add to a footprint later at any point, or you can built it as you go throughout the year. The most important thing is to get started!

Table of emissions and sequestration

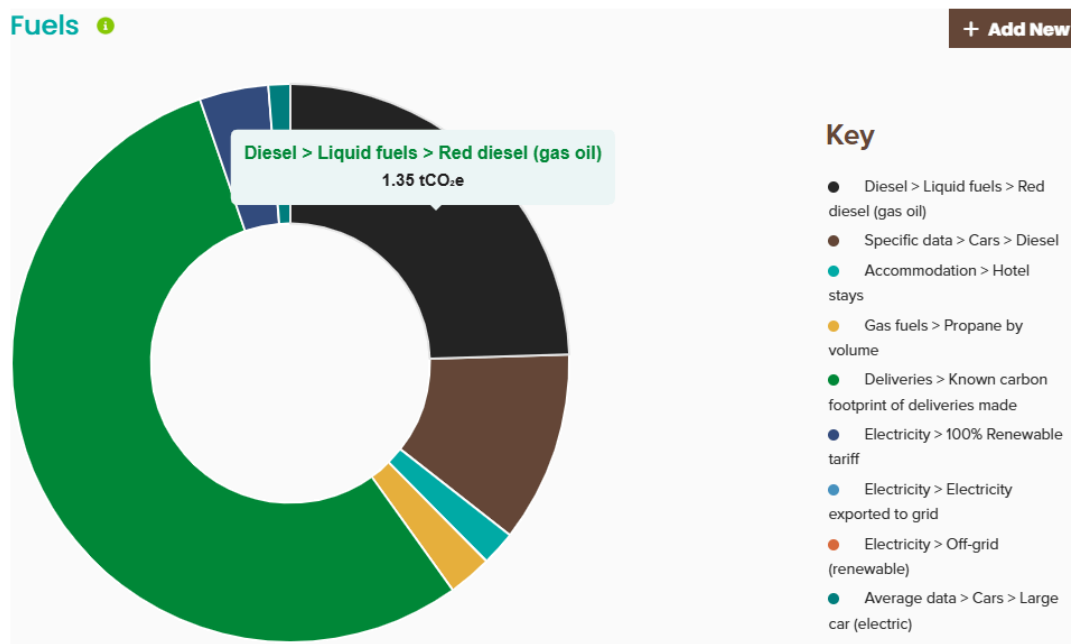
Category	Value	Percentage	Category	Value	Percentage
Fuels	195	5.45%	Soil Organic Carbon	-0.05	-0.00%
Materials	22.05	0.61%	Total	3.58	100%
Inventory	0.58	0.02%			
Crops	3.12	0.09%			
Waste	292.07	8.16%			
Livestock	3.50	0.10%			
Water Channel	0.02	0.00%			
Land Use	30.21	0.85%			
Processing	0.05	0.00%			
Total	441.61	100%			

Emissions by Scope & Greenhouse Gas

Category	Scope 1	Scope 2	Scope 3	Outside of Scope	By GHG	Total
CO ₂	195	0	0	0	CO ₂	195
CH ₄	0	0	0	0	CH ₄	0
N ₂ O	0	0	0	0	N ₂ O	0
Other	0	0	0	0	Other	0

5 → View live results

Your emissions results in tonnes of Carbon Dioxide equivalent (tCO₂e) per year will update in real time as you enter your information as shown below – as an example.



Hover over the graph to see detailed information or look below for a table showing the emissions you have entered in each category. Here is where you can edit or delete items on the list – so don't worry about making a mistake.

Type	Quantity	Emissions (t CO ₂ e)	Offset (t CO ₂ e)	Edit	Delete
Liquid fuels > Diesel > Red diesel (gas oil)	397 l	1.35	0.00		
Cars > Specific data > Diesel	1,500 miles	0.61	0.00		
Accommodation > Hotel stays	4 nights	0.11	0.00		
Gas fuels > Propane by volume	60 l	0.14	0.00		
Deliveries > Known carbon footprint of deliveries made	3,000 kgCO ₂ e	3.00	0.00		
Electricity > 100% Renewable tariff	1,000 kWh	0.22	0.00		
Electricity > Electricity exported to grid	50 kWh	0.00	-0.01		
Electricity > Off-grid (renewable)	300 kWh	0.00	0.00		
Deliveries > Known carbon footprint of deliveries made	10 kgCO ₂ e	0.01	0.00		
Cars > Average data > Large car (electric)	elec car 500 miles	0.07	0.00		
Total:		5.51	-0.01		

On the right of the page is a chart running total of all the emissions data you have entered across all categories – a preview of your final report.

You'll be able to see how your carbon footprint is stacking up as you go. Use it as a decision making tool if you like – see the effect of changes to your overall emissions as you make changes to the data entered.

You could, for example, start or copy a report and tweak the figures to compare the impact of different practices: planting some new woodland; switching from plastic to paper bags in your packaging; using a new electric vehicle; or building your soil organic matter – try entering these ideas and instantly see the results.

Type	t CO ₂ e
Fuels	228.17
Inventory	128.40
Crops	50.12
Inputs	230.28
Livestock	373.27
Waste	2.71
Land Use	0.08
Total:	1,013.04

We provide advice

Our farm advisors at Farm Carbon Toolkit are well placed to offer you advice on your farm. Read about what they do, download resources with further advice and contact them via the Farm Carbon Toolkit website. *Click this box to find out more.*

6 → Your report

Click **View Results** at any point to see your report.

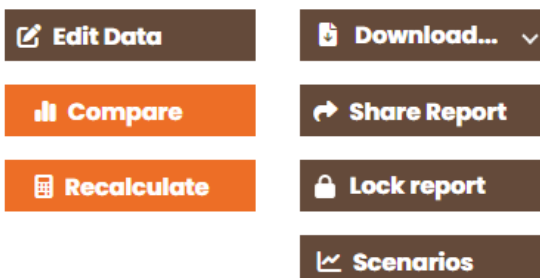
 **View Results**

You will see a **Summary** report with graphs and tables displaying your farm's carbon footprint. Click **Full Results** to see all information entered. You can also see your farm's **Nitrogen balance**, and **Benchmark** your results against your peers and industry averages.



There are lots of actions you can take from this page:

- › Return and **Edit Data**
- › **Download** a PDF, CSV or JSON export of your Report information
- › **Compare** your reports
- › Create farm **Scenarios** to explore the effect of changes
- › **Share** the report with another logged-in user via a link
- › **Lock** a report so it can't be edited further
- › **Recalculate** results in a report if you had a problem during the process or we ask you to do this.



You can also edit the details of your report by clicking **Edit Farm Details** on the report page.

You will now have completed the process of creating your carbon footprint for your farm.

To repeat the process in another year you can simply **copy** the report you created using the button your dashboard, change the reporting period, and then begin editing or deleting your data. If you are careful to change the information to reflect the new year then this speeds up the process.

You can even complete your data monthly or whenever you have a spare moment throughout the year – it does not have to be all at once.

7 → Make changes

The Farm Carbon Calculator helps farmers make positive changes to reduce their carbon footprint every year. There are lots of opportunities to cut emissions in all sectors, and to increase carbon sequestration in the soils and biomass on your farm.

A carbon footprint report will show you carbon hotspots on your farm – where the most emissions are generated. Whilst cutting emissions from all parts of your business is important, don't shy away from tackling the big ones.

In your Full Results table you'll see links to relevant sections of our Farm Carbon Toolkit – where you will find detailed advice, information and resources for farmers and growers to reduce their emissions or increase sequestration in specific areas

→ [See the toolkit](#)

Extra → Comparing reports

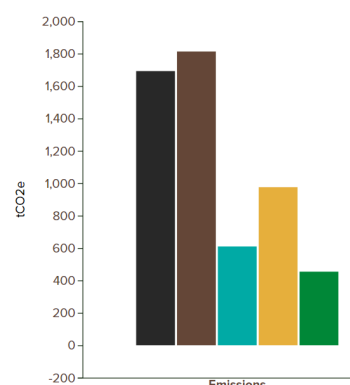
If you have two years' reports or information from different farms or scenarios you might want to see how they compare. To begin, click **Compare** on your results page from any report and select up to 5 reports you want to compare from your list.

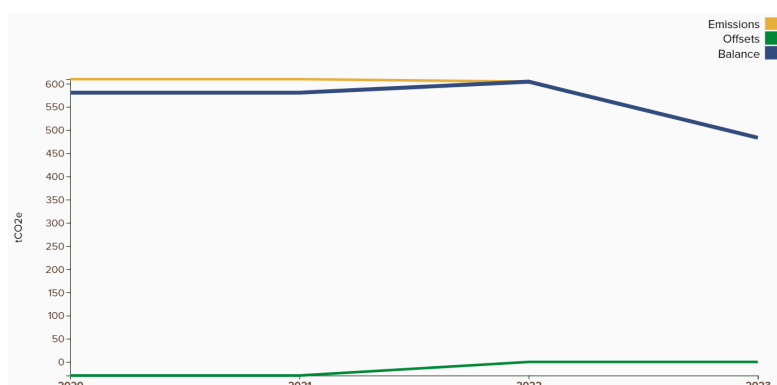
Compare Timeline	
Title	
Farm 1 September 22-23 01 Sep 2023	<input checked="" type="checkbox"/>
Farm 1 September 21-22 01 Sep 2022	<input checked="" type="checkbox"/>
Farm 1 September 20-21 01 Sep 2021	<input checked="" type="checkbox"/>
Farm 1 September 19-20 01 Sep 2020	<input type="checkbox"/>

Selecting **Compare** will compare your selected reports on key headline figures, such as emissions or sequestration, or key KPIs such as fuel per hectare.

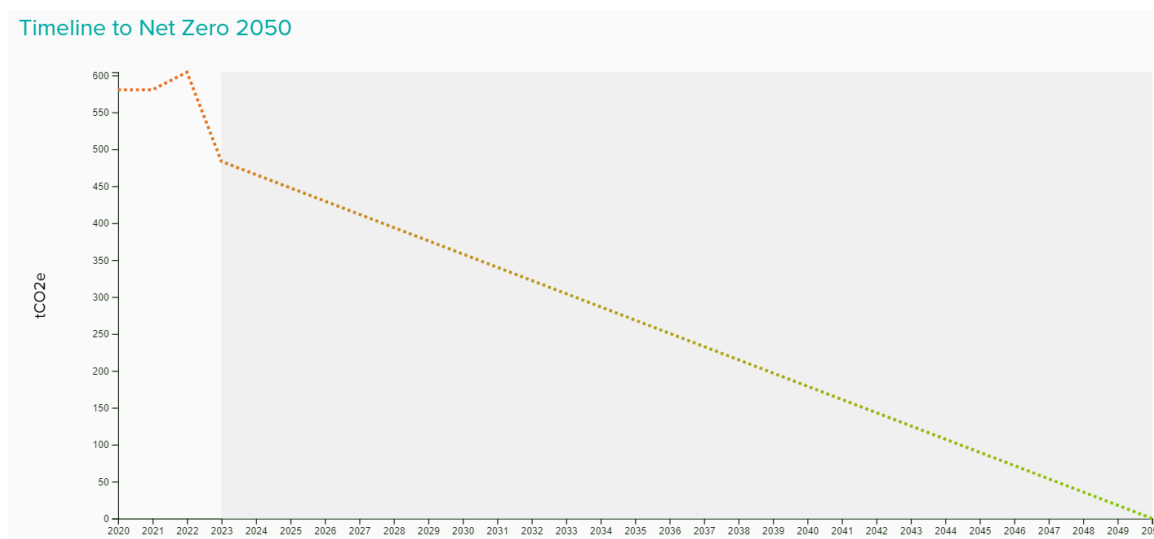
You might want to track several different farms across the same year on some key data for example.

Selecting **Timeline** allows you to see changes to emissions, sequestration and carbon balance, and compare these over time.





You can also track your progress toward net zero from the Timeline comparison – it may look something like below:



Extra → Investigate farm scenarios

If you want to see the effects of changes and compare these with the present on your farm you can create a scenario report. From your report page, click **Scenarios**

You can then create a scenario copy of the report you are viewing. Check the boxes to make preset changes and see the difference, though you can later edit the scenario report any way you would like. Use this to imagine different decisions that can be taken on farm and investigate the associated footprint.

When you are ready to compare the scenarios you can click **Scenarios > Scenario comparisons** or **Scenario timeline** to see the differences.

Remember you can edit or delete all reports at any time.

You can use this report as the base to create a new scenario - either starting from a duplicate of this report or choosing one or more of the presets below.

Don't forget to change the reporting period for the scenario report. You will then be able to compare it against the base report and other scenarios on a timeline.

- ☐ Reduce red diesel by 10%
- ☐ Switch to 100% renewable tariff
- ☐ Reduce fertiliser usage by 10%

Create Scenario

Scenario comparisons

Scenario timeline

Can I offer carbon footprinting as a service to others?

- 🔗 The Farm Carbon Calculator is free for farmers
- 🔗 We support consultants, producers and projects to monitor their footprints with professional licences, white labelled software, and custom integrations using our API. There are a host of ways that our highly skilled team can help your business, so do get in touch – calculator@farmcarbontoolkit.org.uk
- 🔗 We also offer Consultancy services where we offer advice, expertise and training to farmers and organisations who want more in depth support. We work with farmers, growers, food businesses and consultants large and small.

Click this box to find out more

Where to go for more support

Read the [FAQ's](#) available on the calculator website

Click on the green help icons throughout the tool

You can [contact us](#) for help at any time calculator@farmcarbontoolkit.org.uk

The Farm Carbon Calculator is part of The Farm Carbon Toolkit. Created by farmers for farmers, for over a decade we've worked to further the understanding of greenhouse gas emissions in agriculture. We provide tools and services to measure impact and run projects with farmers that inspire action on the ground. [Find out more](#)