



Carbon Literacy for Local Authorities Leadership and Management Course Overview

This document gives you an overview of what's included in the Carbon Literacy Local Authorities Toolkit. This includes extracts from the slide deck, trainer manual and other support documents.

For further details please see our website: <https://carbonliteracy.com/toolkits/local-authorities/>

Getting Started

Carbon Literacy
Project



Sector Specific

Co-developed by people in the sector & designed to be delivered by peers.

Adaptable

Make it relevant to your organisation and area with customisable sections.

User Friendly

You don't need to be a carbon expert but we advise attending a CL course before delivery.

Complete Kit

All materials needed for a day's worth of certified Carbon Literacy training are included.

Accreditation

The Toolkit is only licensed for certified Carbon Literacy training within the sector - all learners must pledge an individual and group action. The trainer must submit learners' evidence forms to evidence@carbonliteracy.com within approx. 2 weeks of the training with a [certificate request form](#).

[Becoming a Carbon Literate Organisation](#) showcases commitment to a low-carbon culture.

Before starting training

In our getting started pack you will find our bank details document and our invoicing setup form. Before starting training please complete and return our invoicing setup form to accounts@carbonliteracy.com and set up The Carbon Literacy Trust on your accounting system. This allows us to issue invoices to cover certification costs and prevents hold-ups in returning certificates. Some organisations bulk purchase certificate applications in advance which reduces admin for both parties. Alternatively, we can invoice you for each batch of learners.

What does the Toolkit include?

Getting
Started
Pack

Slide
Deck

Trainer
Manual

Pre &
Post-
Course
Forms

Evidence
Forms

Activity
pdf

Carbon Literacy for Local Authorities

Trainer Manual

Leadership and Management Course
CCC000195
V3

2023

The Carbon Literacy Project



Department for
Business, Energy
& Industrial Strategy

GMCA GREATER
MANCHESTER
COMBINED
AUTHORITY

Carbon Literacy
Project





Local Authorities Leadership and Management Course - detailed trainer guide

This guide will provide you with all the information you need to deliver the Carbon Literacy for Local Authorities Leadership and Management course. Please note that it is not meant to be read as a script but to be used as a guide for delivering the training. For more succinct delivery notes, please see the slide notes underneath the slide deck.

Carbon Literacy: “An awareness of the carbon costs and impacts of everyday activities, and the ability and motivation to reduce emissions, on an individual, community and organisational basis”

Materials checklist

This trainer manual

Slide deck

Activity pdf

Evaluation forms (pre & post course surveys)

Evidence forms - there are two versions of our evidence form. We have [an offline downloadable Word document](#) and [a live online Microsoft forms link](#) available.

Certificate request form. [You can access the certificate request form here.](#)



Running order

Blue slides – slides that are designed to be edited by the trainer.

Orange slides – are activities or involve active learner engagement.

Green slides – contain videos that learners watch on their own devices.

This training is a day of learning. This day of learning can be delivered in a single day, or over multiple days – this depends on the delivery structure that is best suited to your organisation and your learners.

We recommend leaving no more than one week between training sessions for continuity.

If the training is being delivered on different days, allow a little more time at the beginning of each session to do a quick welcome and recap.

There are several 'Break' slides throughout the Toolkit. These breaks can be moved if necessary.

The allocated time for each slide is an estimate. If the trainer finishes a section early the time can be used for other sections and discussions.



Day 1			
		Duration (hrs:mins)	Start time
Introduction	What is Carbon Literacy?	00:08	09:30
	All or nothing?/Icebreaker	00:12	09:38
	Training overview	00:01	09:50
Module 1	The role of Local Authorities	00:08	09:51
	The difference between weather and climate	00:01	09:59
	The Carbon Cycle	00:03	10:00
	The greenhouse effect and GHGs	00:04	10:03
	Global emissions over time	00:03	10:07
	The scientific consensus	00:03	10:10
	Emission trajectories	00:02	10:13
	Global impacts	00:07	10:15
	Pathways to our future or What the impacts mean for society	00:05	10:22
	The scale of the challenge	00:02	10:27
	The Global Risks Report	00:02	10:29
	Tipping points	00:04	10:31
	Climate change and the economy	00:04	10:35
	Break	00:10	10:39
	The Carbon Map	00:15	10:49
	Equity and vulnerability	00:02	11:04
	How will climate change impact our ...	00:20	11:06
Climate change impacts in your local area	00:07	11:26	
Climate vulnerability and health	00:05	11:33	
How's everyone feeling ... any questions?	00:05	11:38	
Module 2	International policy	00:09	11:43
	UK greenhouse gas emissions	00:03	11:52
	UK policy	00:07	11:55
	Regional policy (optional)	00:02	12:02
	Local climate strategy	00:03	12:04
	Break	00:10	12:07
Module 3	Climate change and COVID-19	00:05	12:17
	Leadership and management in an emergency	00:08	12:22
	How do we integrate climate change into decision-making?	00:20	12:30



	How should we act in an emergency?	00:01	12:50
	Why should we make the recovery green?	00:08	12:51
	Personal carbon footprints	00:04	12:59
Finishing Time:	13:03		
Total Session (M 1-3) Time	03:33		



Day 2			
		Duration (hrs:mins)	Start time
Module 4	Introductions/Tech check	00:05	13:30
	Co-benefits of climate action	00:37	13:35
	Nottingham's Energiesprong homes	00:04	14:12
	How can we fund climate action?	00:11	14:16
	The carbon budget and GHG inventory of your Local Authority	00:14	14:27
	Break	00:10	14:41
	Module 5	Action planning and levers of influence	00:05
Transform the change targets using the levers of influence		00:30	14:56
Taking action		00:06	15:26
Dragons Den		00:25	15:32
Break		00:10	15:57
Complete your evidence form		00:32	16:07
Module 6	Talking about climate change video	00:05	16:39
	Britain Talks Climate or Communicating climate change	00:31	16:44
	Talking about climate change wrap-up	00:02	17:15
	The discourses of delay	00:02	17:17
	Wrapping up	00:11	17:19
Finishing Time:	17:30		
Total Session Time (M 4-6)	04:00		
Total Training Time (M 1-6)	07:33		



Climate change and the economy

Material: Slides

Timing: 4 minutes

Purpose: To make learners aware of the cost of inaction.

The cost of inaction: Global (01:30)

As you click through the presentation, points will appear on the slide.

The graph summarises a study by researchers from the University of Melbourne.

The study found that restricting temperatures to 2°C of warming instead of 4°C would avoid global losses of \$17,489 billion.

Stress the importance of early action and the difference in GDP losses between 2°C and 4°C.

Other studies:

A study found that if countries do not go beyond their current climate change pledges, by 2100 the global economy could lose over \$600 trillion compared to restricting global warming to well below 2°C and towards 1.5°C.

Global insurance losses from 2020 extreme weather events cost \$150 bn.

References:

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2018EF000922>

<https://www.nature.com/articles/s41467-020-15453-z>

<https://www.theguardian.com/australia-news/2020/dec/28/climate-change-fuelling-costly-and-deadly-natural-disasters-report>

The cost of inaction: UK (01:30)

The graph summarises the same study as the previous slide but focuses on UK data.

The study found that restricting temperatures to 2°C of warming instead of 4°C would avoid UK losses of \$17.43 billion per year to 2100.

Stress the importance of early action and the difference in GDP losses between 2°C and 4°C.

Other studies:



Another study found that impacts from climate change will cost the UK £16 billion annually by 2050 if business as usual continues

References:

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2018EF000922>

https://www.wwf.org.uk/sites/default/files/2020-02/GlobalFutures_SummaryReport.pdf

Climate change and the economy (01:00)

Read out the quote.

Quote source:

<https://www.sbs.ox.ac.uk/oxford-answers/society-can-solve-poverty-and-climate-change-question-do-we-care-enough-do-so>

Break – 10 minutes

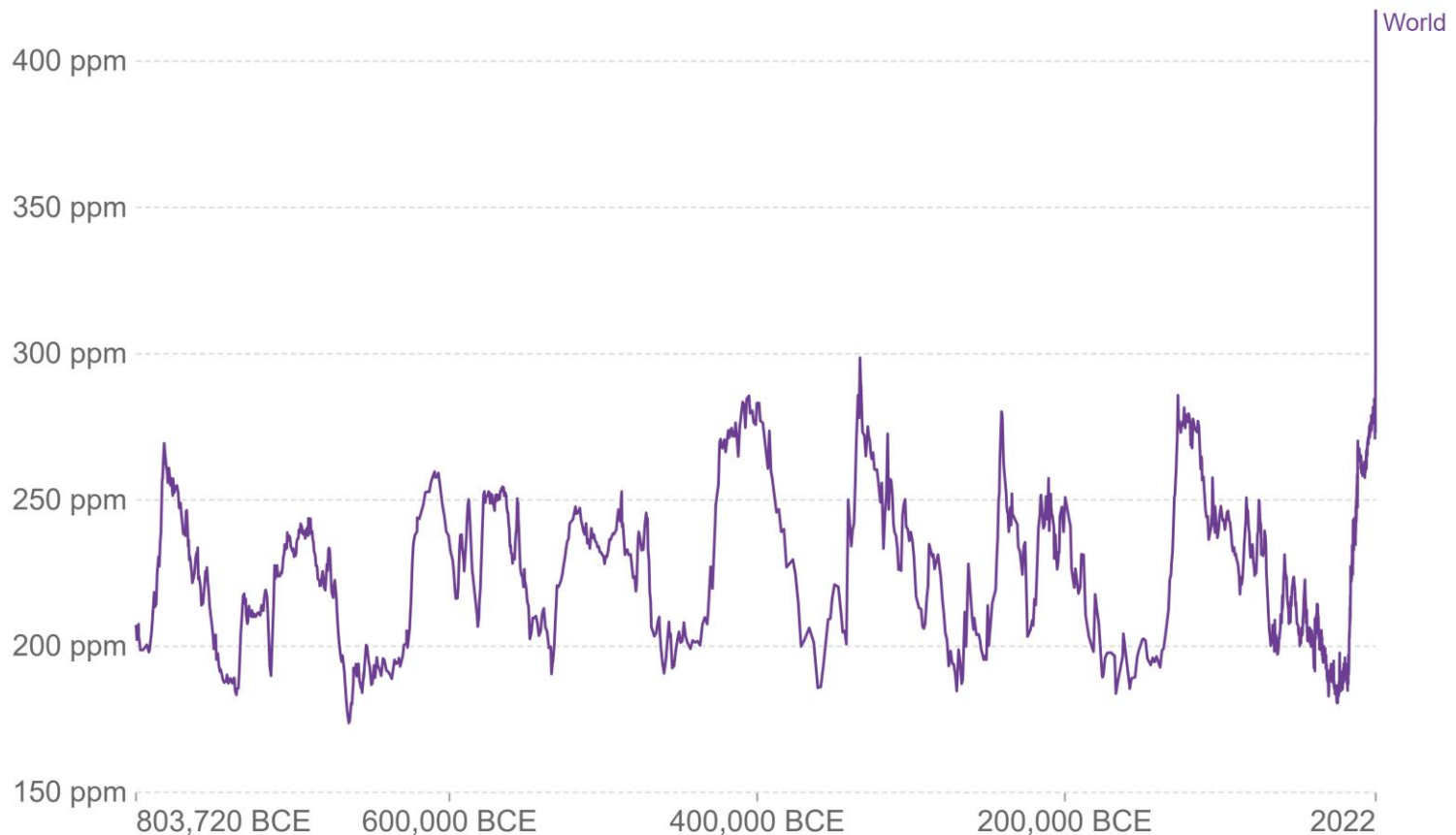


Level of CO₂ over the past 800,000 years

Global atmospheric CO₂ concentration

Atmospheric carbon dioxide (CO₂) concentration is measured in parts per million (ppm). Long-term trends in CO₂ concentrations can be measured at high-resolution using preserved air samples from ice cores.

Our World
in Data



Source: National Oceanic and Atmospheric Administration (NOAA)

CC BY



Climate emergency declarations

- Approximately 75% (308/409) of Local Authorities have declared a climate emergency
- Most Local Authorities aim for their Local Authority Area to become Net Zero Carbon

Has your Local Authority declared a climate emergency?



Map of UK Climate Emergency Declarations



Regional Policy

- Carbon Neutral Greater Manchester by 2038.
- 15% year-on-year reductions in CO₂ from 2018.
- Mobilise all residents, businesses and other stakeholders to take action on climate change.
- Focusing on climate change, air quality, sustainable consumption & production, green space, resilience & adaptation.





Activity: How do we integrate climate change into decision-making?

Discuss:

- What criteria should we use to assess whether a proposal is 'low carbon' or not?
- What are the right questions to ask when people are putting proposals forward?
- Which personnel could offer advice/ a second opinion?
- What additional decision-making criteria could be used in your Local Authority?
- How can we further influence and collaborate with suppliers and other councils?





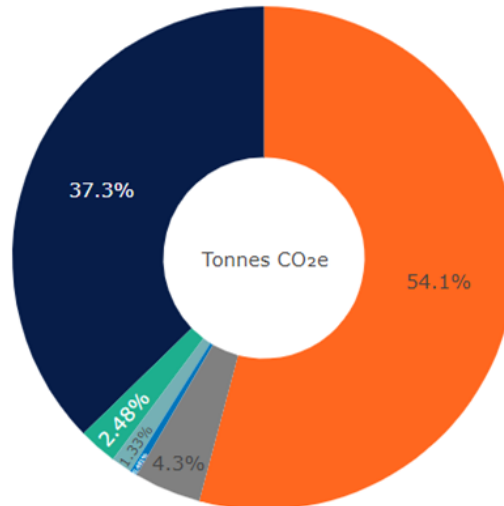
SCATTER Tool

Filters:

Local authority	Sector choice	Scope choice	Unit choice	Chart type	<input type="submit" value="Submit"/>
Greater Manches <input type="button" value="v"/>	Sectors <input type="button" value="v"/>	Total <input type="button" value="v"/>	tCO ₂ e <input type="button" value="v"/>	Pie Chart <input type="button" value="v"/>	

Sector inventory summary for Greater Manchester with Total

- Stationary energy
- Transportation
- Waste
- Industrial Processes and Product Use
- Agriculture, Forestry and Other Land Use
- Generation of grid-supplied energy





Taking action: why is your action pledge important?

- Everyone plays a part in the transition to a low carbon society.
- By pledging two actions today, you are one step closer to reducing your carbon footprint to a more sustainable size.
- This is also essential in order to receive your Carbon Literacy certificate!

