



Carbon Literacy for Local Authorities Elected Members 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

Elected Members Course
CC000190
V3

2023

The Carbon Literacy Project



Department for
Business, Energy
& Industrial Strategy

GMCA GREATER
MANCHESTER
COMBINED
AUTHORITY

**Carbon Literacy
Project**





Carbon Literacy for Elected Members - detailed trainer guide

This guide will provide you with all the information you need to deliver the Carbon Literacy for Elected Members 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.](#)



Preparing for your training session

Documents

Start here

Please read the START HERE document in full which explains what is included in the Toolkit and how to use it.

Slides

A PowerPoint slide deck is included with accompanying notes underneath each slide. The slide notes are a condensed summary of this trainer manual and a guide of what to cover for each slide.

Trainer manual

Ensure you have a good understanding of what is outlined in the trainer manual as this can support your confidence.

Activity pdf

This is for activities used throughout the course. Please inform learners that the activity pdf is interactive and that they can type/write/tick in the boxes. Please ensure that learners have access to the activity pdf throughout the course. To avoid formatting issues, please advise learners to open this document in an offline pdf viewer.

Evidence form

All learners need to fill in an evidence form. It is best for learners to complete the evidence form during the training session, to ensure timely submission to The Carbon Literacy Project.

There are two versions of our evidence form. We have an offline downloadable Word document and a live online Microsoft forms link available. If you wish to use the downloadable word document you can find that here: <https://carbonliteracy.com/trainer-consultant/documents/> and our live online Microsoft Forms link can be found here: https://forms.office.com/Pages/ShareFormPage.aspx?id=5h69uub_b0i4Oi28B7V_6j6ypvR5mW5EiBkZsQuk7TBUQUk1SVFGMDRJSkdUQkVZQlpYSDBXUIZTRi4u&sharetoken=cF19PB_DJupg1jFuy5IFl



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.

		Duration (hrs:mins)	Start time
Introduction	Introductions and What is Carbon Literacy?	00:14	9:30
	All or Nothing/Icebreaker	00:12	9:44
	Training overview	00:01	9:56
Module 1	The difference between weather and climate	00:02	9:57
	The carbon cycle	00:03	9:59
	The greenhouse effect and GHGs	00:04	10:02
	Which activity releases which GHG?	00:10	10:06
	How is the climate changing?	00:08	10:16
	The scientific consensus	00:05	10:24
	The business and politics of climate science denial	00:08	10:29
	Emission trajectories	00:03	10:37
	Global impacts	00:03	10:40
	Pathways to our future	00:05	10:43
	What the impacts mean for society	00:05	10:48
	The Global Risks Report, 2022	00:04	10:53
	How's everyone feeling ... any questions?	00:05	10:57
	Break	00:10	11:02



Module 2	UK impacts	00:05	11:12
	UK climate change impacts	00:15	11:17
	Climate change impacts in the UK	00:06	11:32
	Climate change impacts in your local area	00:06	11:38
	The policy position	00:06	11:44
	International policy	00:09	11:50
	UK policy	00:11	11:59
	The carbon budget of your Local Authority	00:04	12:10
	Local climate strategy	00:04	12:14
	The economic position	00:03	12:14
	Climate change and COVID-19	00:07	12:17
	The 'green' recovery	00:14	12:24
	How climate action sits within society	00:03	12:38
	How do we make the recovery 'green'?	00:20	12:41
	Lunch	00:30	13:01
Module 3	The role of Local Authorities	00:07	13:31
	Equity and vulnerability	00:02	13:38
	Climate vulnerability and health	00:05	13:40
	The impacts of air pollution and health	00:02	13:45
	Vulnerable groups	00:02	13:47
	Co-benefits of climate action	00:37	13:49
	Britain Talks Climate or Communicating climate change	00:31	14:26
	Encourage your constituents to take action	00:18	14:57
	Break	00:10	15:15
Module 4	The influence of local authorities	00:01	15:25
	Discourses of delay	00:03	15:26
	Action planning and levers of influence	00:06	15:29
	Change targets transformation & levers of influence	00:45	15:35
	Complete your evidence form	00:48	16:20
	Wrapping up	00:05	17:08
Finishing Time:	17:13		
Total Training Time (M 1, 2, 3 & 4)	07:47		



What the impacts mean for society

Material: Slides

Timing: 5 minutes

Purpose: To make learners aware of what the impacts of climate change mean for society.

What the impacts mean for society (05:00)

If you find these topics difficult to discuss, you can play the video found at the end of this section which covers the main points outlined in this slide.

Who are Chatham House and why is their risk assessment so important?

Chatham House, also known as the Royal Institute of International Affairs, is a world-leading policy institute, headquartered in London.

It has been a source of independent analysis, trusted dialogue and influential ideas for over 100 years.

When a meeting is held under the Chatham House Rule, the information revealed is free to use, but speakers' and participants' identities and affiliations are not revealed.

Their Climate Change Risk Assessment has been designed to inform policy and heads of government on the potential impacts of climate change.

The key findings from the report are outlined in the slide.

(Click to reveal graphic)

Heat, productivity and health

If emissions are not reduced drastically before 2030, then by 2040:

3.9 billion people will be exposed to major heatwaves

400 million people will be unable to work and there will be 10 million deaths per year

No region will be spared

(Click to reveal graphic)

Food security

To meet global demand, agriculture will need to produce almost 50% more food by 2050.

However, yields could decline by 30% if emissions aren't drastically reduced.



By 2040, over 32% of global cropland will be affected by severe drought, which is more than three times the historic average.

During the 2040s there is a 50% chance of crop failure occurring in multiple locations at the same time which would have devastating impacts on food availability and prices.

Europe is likely to experience the largest increase in cropland area affected by drought. The central estimate indicates that nearly half its cropland area will experience severe periods of drought by 2050.

(Click to reveal graphic)

Water security

By 2040, almost 700 million people per year are likely to be exposed to droughts lasting at least six months, nearly double the global historic annual average.

All of this leads to cascading risks for society

These impacts will lead to shifting weather patterns, changes to ecosystems, increased pests and diseases, heatwaves and droughts, unprecedented food insecurity and migration – all with far reaching consequences.

The cumulative effect of all these multiple and intensifying risks occurring at the same time will affect people, infrastructure, the economy, societal systems and ecosystems. This in turn will fuel regional and international conflict.

(Click to reveal graphic)

Tipping points

Tipping points are thresholds where a tiny change could push a system into a completely new state. E.g., Imagine a child pushing themselves from the top of a playground slide. There is a point beyond which it is too late for the child to stop themselves sliding down. Pass this threshold and the child continues inevitably towards a different state – at the bottom of the slide rather than the top.

The latest IPCC climate models show that there are a cluster of potential tipping points, which will be triggered when we reach between 1.5°C and 2°C, pushing parts of the Earth's system into sudden or irreversible change.

Tipping point cascades (a domino-like cascade of two or more tipping points at a given temperature) have been identified in more than 60% of simulations.



If tipping points are reached at lower temperatures than the models predict, the impacts presented on the slide are likely to be more extreme, occurring with a higher probability, sooner in time and with a greater severity and frequency.

This will hugely reduce the capacity of societies to adapt, compounding the impacts.

The most likely initial trigger of tipping point cascades is likely to be the polar ice sheet melting, which will cause knock-on effects. Ice sheets are already at risk of reaching tipping points within the Paris Agreement range of 1.5°–2°C.

Reference:

<https://www.chathamhouse.org/2021/09/climate-change-risk-assessment-2021>

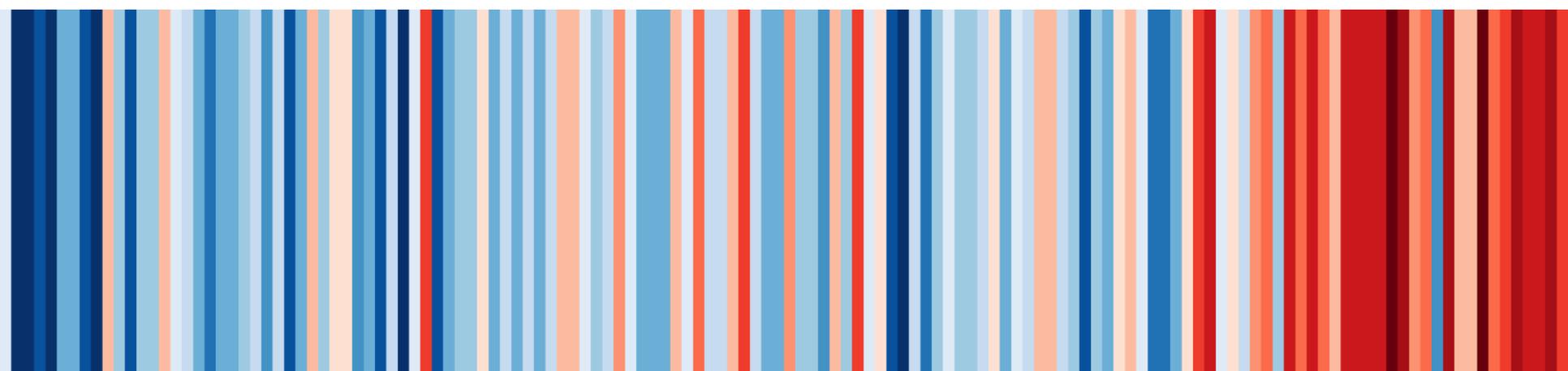
This video (<https://www.youtube.com/watch?v=eUh-TXKldiE> 5 mins) provides a good summary of the points covered above. If you find it difficult to discuss these sensitive points, then feel free to use this as an alternative.



We must show a united front in tackling the climate emergency

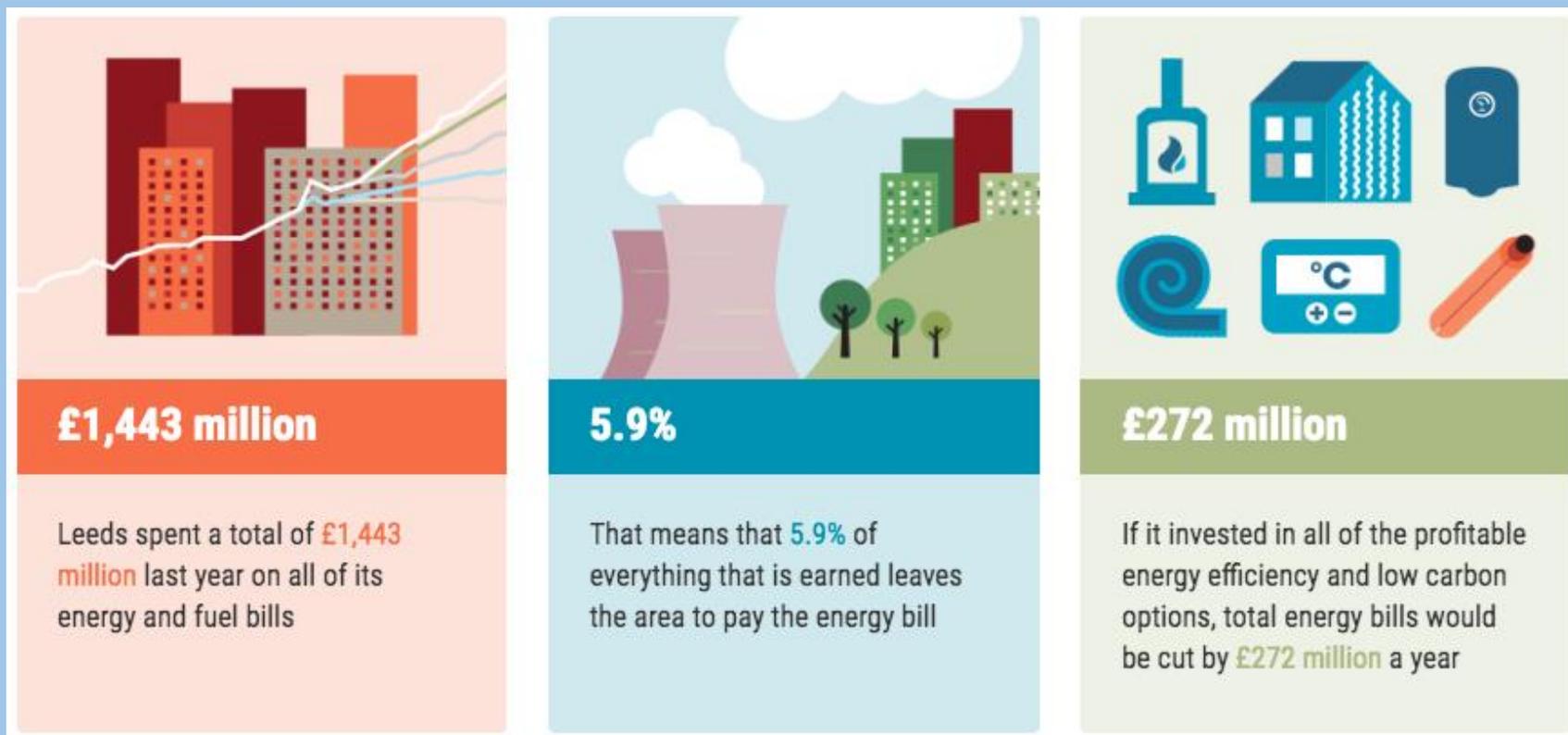
“Climate change doesn’t care if we’re left wing, right wing, or in the centre. It doesn’t care who is prime minister of what country, whether you were born in this generation or the last, what your race is, or how much money you make. It’s coming all the same. It’s already here. And it’s a global emergency.”

UN Climate Change Executive Secretary, Patricia Espinosa





Opportunities in our area





Power purchase agreements (PPAs)

PPAs are long-term electricity supply agreements between energy producers and consumers and can reduce energy costs. Costs can also be saved through energy performance contracts, which stipulate energy performance requirements.

The City of London Authority

- Signed a PPA with Voltalia for a 49 MW solar farm in Dorset.
- Will save the City of London around £3 million in energy costs and provide half of its electricity demands.



Health



Equity &
Community



Jobs &
Economy



Resilience



Council
capacity



Green space



Activity: Communicating climate change

Imagine you are talking about climate change with one of the people below.

- Which theme(s) might you use to connect with this person?
- What messaging might help when communicating this theme/these themes?



Local Authority
CEO



Factory
worker



Local
councillor



Single
parent



Farmer



Levers of influence



Direct control

Ensuring your council's activities are net zero in relation to:

- Own buildings
- Own staff activities
- Council commissioning
- Council procurement

Place-shaping

Applying policies and powers to:

- Shape the quality of new developments
- Direct the purpose and nature of regeneration
- Invest in green infrastructure & economic development





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!

