



CARBON LITERACY FOR LOCAL AUTHORITIES

Activity PDF

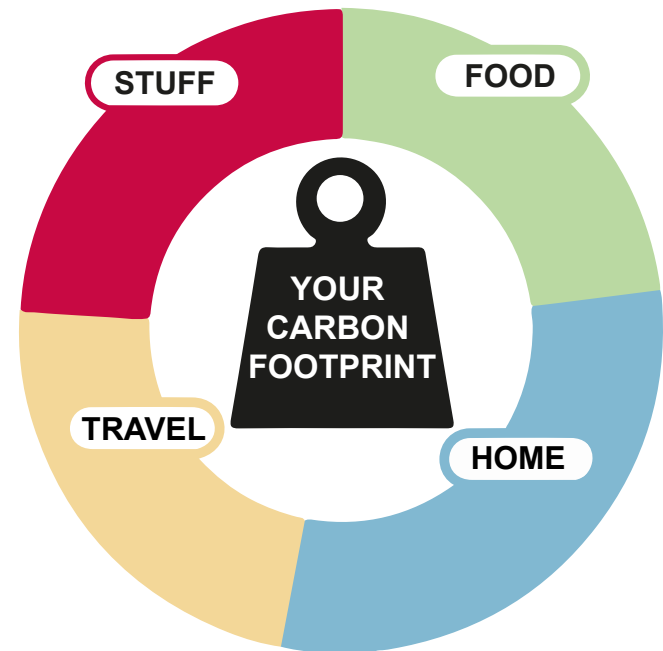
Pre-course work



Complete the WWF carbon footprint calculator before Session 3 of your training.

The results will be used as part of an activity.

WWF Carbon Footprint Calculator



All or nothing?



Speed is the name of this game! Be the first team to identify **EITHER: ONE** action **all** team members **do** or **ONE** action **none** of you **do**.

 <p>Who is making most journeys by public transport, bike or walking?</p>	 <p>Who has reduced the number of flights they take each year?</p>	 <p>Who uses a smart meter or tries to reduce their heating or use of hot water?</p>	 <p>Who has loft or wall insulation?</p>
 <p>Who has switched to a green energy supplier?</p>	 <p>Who has significantly reduced the amount of meat and dairy in their diet?</p>	 <p>Who has engaged with a charity or campaigning body on climate change?</p>	 <p>Who has spoken to others about the importance of acting on climate change?</p>

UK climate change impacts



In your break out room discuss the impacts of climate change:

Select a group facilitator to take notes and feed back to the plenary.

Flooding

**Heatwaves
and drought**

Wildfires

- Share any local experiences you have had of climate impacts.
- Discuss climate impacts on the UK as a whole, considering areas like:
 - Financial and economic impacts (including insurance).
 - Impacts on transport.
 - Impacts on infrastructure.
 - Impacts on health and wellbeing.

The carbon map

Carbon Literacy
Project

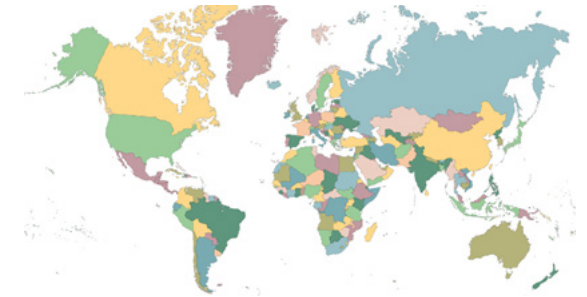


As an individual go to carbonmap.org and watch the video

(Be sure to turn off your video conferencing audio)

You have 5 minutes to briefly explore the map:

Look at the 'People at risk' map option with 'GDP per person' shading.
What do you notice?



Other areas to explore if you have time:

- Who releases the most carbon vs who is most at risk.
- Historic emissions.
- Production vs consumption.



Co-Benefits Game

In your breakout rooms

- Select a group facilitator to share and fill in the PDF, and to feedback to the plenary.
- Discuss the climate actions you have been allocated, using the examples as a talking point.
- Discuss then tick the co-benefits you think match the climate action.



Co-benefits of Climate Action



Health

- Addressing **air quality**, **mental health**, lifestyle **diseases** (heart disease, diabetes etc).
- Less pressure on the **NHS**.



Jobs & Economy

- New **green jobs**.
- E.g. to **create** and **build** the necessary **infrastructure**, and to maintain new services.



Equity & Community

- Safe, prosperous communities **for all**, regardless of status, wealth, race, religion etc.
- **Accessibility** and mobility for residents.

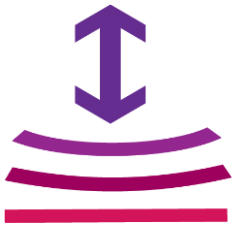


Co-benefits of Climate Action



Green space

- Increased area or access to **green space**.
- Green spaces include **tree planting** but can also be created in less obvious projects.



Resilience

- The ability to **prepare**, **recover** and **adapt** to climate impacts.
- This can be related to **extreme weather** events, access to **resources**, economic recovery etc.



Council capacity

- Climate actions that **raise money** for the **council**.
- These additional funds can be spent on other **green initiatives**.



MORE CYCLING AND WALKING

Invest in infrastructure such as segregated cycle lanes and facilities for e-bikes.

London Borough of Waltham Forest Council

- Waltham Forest Council introduced **24km** of segregated cycle lanes on 7 major routes.
- Provided **15,000** adults and children with cycle training.
- Residents are walking and cycling for an extra **41** minutes each week in areas where interventions have been made.



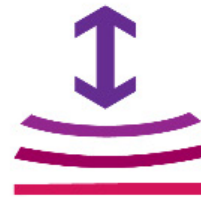
Health



Equity &
Community



Jobs &
Economy



Resilience



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Green
space



ELECTRIFY TRANSPORT

Replacing public transport reliant on fossil fuels with electric alternatives such as electric bus fleets, tram systems and encouraging commutes by train will cut carbon.

York

- ➔ York plans to be home to the biggest fleet of double decker electric buses outside London (**326** low emission buses).
- ➔ The buses will be built locally and each electric double takes **75** cars off York's streets.
- ➔ From January 2021, any bus that enters the Clean Air Zone in York city centre five or more times a day must be an ultra-low emission bus standard.



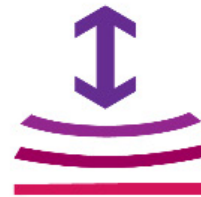
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CLEAN AIR ZONES

Ban or discourage private vehicles from the city/town centre through a congestion charge. Drivers will be charged a fee to enter the area if their vehicle fails to meet the required environmental standards.

London's Congestion Charge

- Provided **£174 million** in revenue in 2017/18.
- 3% of Transport for London's income.
- Reduced traffic by **21%** and increased public transport uptake by **18%** between 2002 and 2008.



Health



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INTRODUCING WORKPLACE PARKING LEVIES

A workplace levy is an annual fee paid by businesses who have above a set number of employee-parking spaces. Revenue can be used to improve public transport and cycling infrastructure and to support businesses to encourage employees to leave their cars at home.

Nottingham UK

- ➔ Congestion costs Nottingham **£160m** every year.
- ➔ The levy works as a demand management tool focusing on commuter parking (commuters account for about **70%** of congested peak traffic in Nottingham).
- ➔ Scheme generates about **£8m** in annual income. This has been spent on green transport initiatives such as doubling the size of the city's tram network.



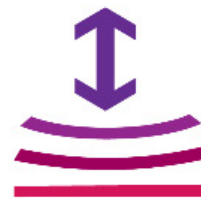
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PLANT-BASED PUPILS

Engage with schools to ensure meals are delivered in accordance with the official Eatwell Guide. This means the majority of options on menus are healthy and plant-based, with less and better meat.

Bristol City Council Good Food and Catering Procurement Policy

- ▶ Bristol has made a commitment to work towards a healthier, low carbon food system and reduce the environmental impact of how we produce, consume and dispose of our food.
- ▶ Since implementation in 2009, **45%** of school meals in Bristol are produced with locally sourced food and **30%** are prepared with organic produce.



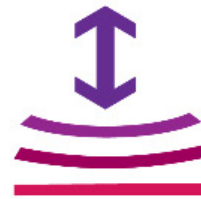
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POWER UP ELECTRIC VEHICLES

Increase charging points for electric vehicles. The government has urged local authorities to take advantage of £5 million funding available to help build up local charging infrastructure and increase access to charge points for drivers.

Westminster Electric Avenue

- Westminster City Council currently has more EV points than any UK local authority, with a total of **296** lamp column charge points in the city, including the **24** new installations on 'Electric Avenue, W9'.
- There are plans to reach the **1,000** charge point mark across the borough by 2021.



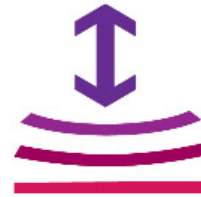
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PASSIVHAUS HOMES

Passivhaus homes are buildings that are designed and constructed to require little energy for space heating or cooling. Councils could require all new homes built on council-owned land to be built to this or a similar standard. If the design of housing is adjusted to be more efficient, it is possible to achieve the Passivhaus standard at no extra cost

Exeter City Council

- Exeter Council has recently made a commitment to build all Council-owned social housing to Passivhaus standard.
- Residents quote an average annual heating bill of between **£0 - £150** for a typical 2 bed terrace.



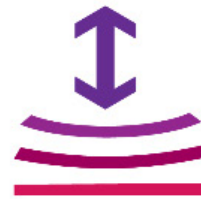
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GREEN POWERED COMMUNITIES

Most councils could dramatically increase the amount of wind or solar renewable energy generation in their area by working with local communities to find suitable sites. A Power Purchase Agreement can help the council and communities sell the energy they generate to an energy company.

Energise Barnsley

- ➔ Energise Barnsley is the largest local authority and community energy rooftop solar PV and battery storage project in the UK. (need pic)
- ➔ In the first year, the tenants have saved over **£40,000** in reduced electricity bills, with the systems saving **400** tonnes of carbon emissions.
- ➔ All surplus profits from the generation of renewable electricity go to the Community Solar Fund which invests in the local community



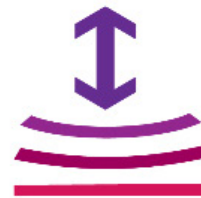
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ENCOURAGE CAR SHARING

Arrange a meeting to connect staff who can share their car to commute to work. You can create a car sharing platform for your entire council area using one of the many apps available. This could be used to connect businesses in your council area, allowing employees to match their commutes.

Norfolk County Council Liftshare

- ➔ Provides a free online national car sharing network & car sharing schemes.
- ➔ **80,000** journeys to be taken off the road every day, which it estimates will save around **110,000** tonnes of CO2 a year
- ➔ Typical commuter saves **£1,000** a year.



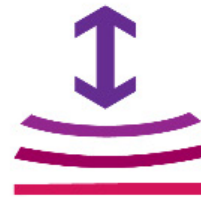
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URBAN GREENING

Update local planning strategies and work with partners to encourage nature-based solutions such as increasing tree cover across the council area.

Redbridge Council works with Trees for Cities

- ➔ Trees for Cities and Redbridge Council have embarked on a 3-year Strategic Partnership (2017-2020), to fully utilise the potential of Redbridge's open spaces for the benefit of local communities.
- ➔ Since 2006 Trees for Cities has delivered a total of 12 tree planting projects across Redbridge with a major planting of **15,000** trees at Forest road Recreation Ground in 2019.



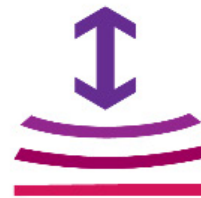
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CAR FREE PLANNING

Good land-use planning is critical in reducing the need for car travel. Councils can use their planning powers to avoid urban sprawl and ensure that new developments are centred around good public transport thus reducing private car use.

Royal Arsenal Riverside

- ➔ Royal Arsenal Riverside is a large regeneration project in Woolwich, south east London.
- ➔ The central parts of the site are pedestrianised and walking is encouraged by the peaceful public realm.



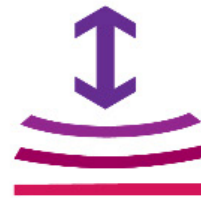
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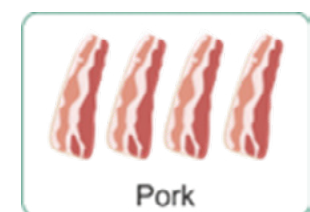
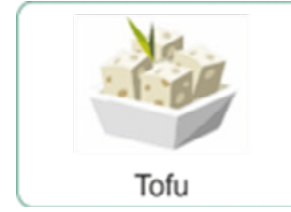
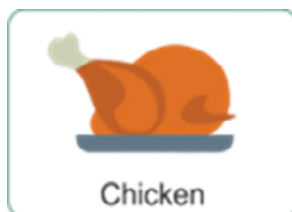
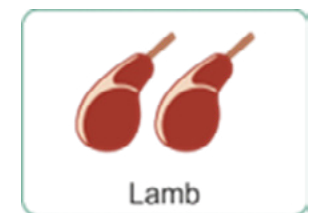
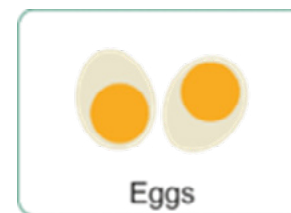
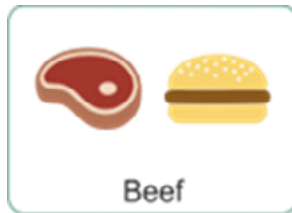
Green
space

The carbon footprint of food

Select a group facilitator to share this page, fill in the PDF and feed back to the plenary.

Place a number from 1-8 underneath each food item.

1 = the highest carbon food item, 8 = the lowest carbon food item.



What does a low carbon local area look like?



- Select a group facilitator to share this page, make notes and feed back to the plenary.
- For your **given sector** discuss and make notes in the text box on:

Part 1 (5 minutes)

- What does this system in your local area currently look like?

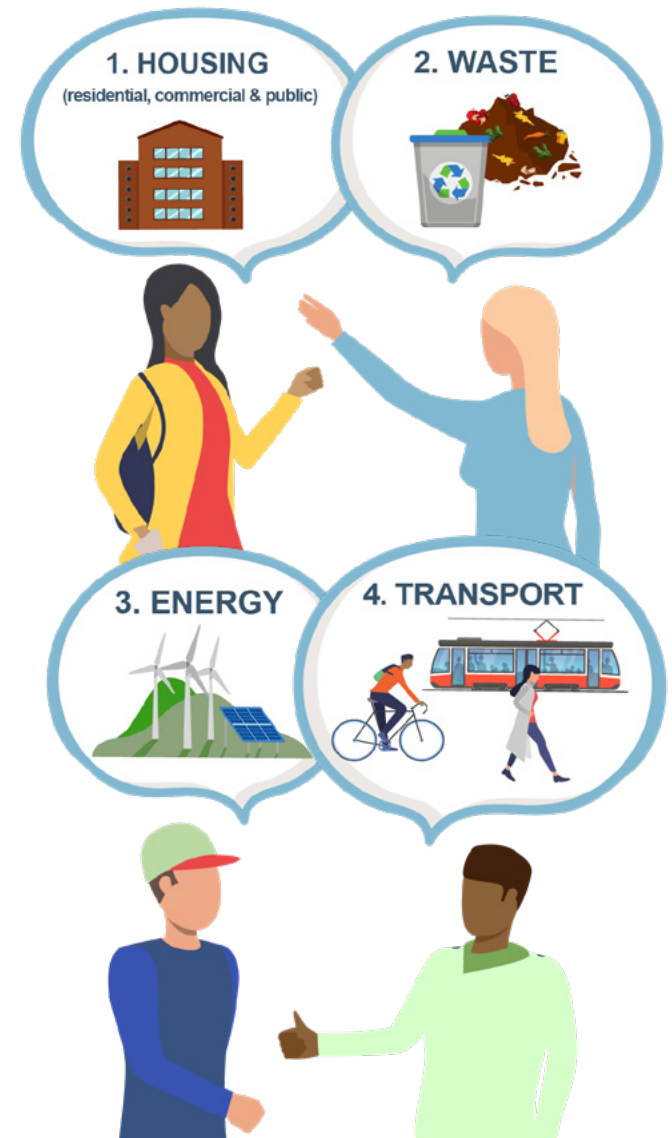


- Move to Part 2 on the next page

What does a low carbon local area look like?

Part 2 (15 minutes)

- What does a low carbon system or sector look like?
- What key actions or changes do we need to make?
- How can we overcome any barriers?
- Who would need to support this and how? (Government / your local authority / your department / business)



Spheres of influence

In your break out room

- Select a group facilitator to share this page, make notes and feed back to the plenary.
- Discuss and note down everyone you feel you can influence to take action and how you might influence them.

You could include:

- Family
- Friends
- Workplace
- Politicians
- Social media



Dragon's Den



(10 minutes)

- Select a group facilitator who will take notes and make your pitch on behalf of the group when you return to the plenary.
- Discuss within your team some interventions and ideas which would significantly reduce carbon emissions in your local area (external emissions under your influence NOT internal departmental emissions).
- Consider the co-benefits (financial & health) and choose your best idea to pitch back: dragons den style to the rest of the group.
- Your group facilitator will have 2 minutes to deliver your pitch when you return to the plenary.

