



Carbon Literacy Resources: Heritage Workshop Course CC000579

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Heritage Course Resources

Module 1

Documentary: *Climate Change: The Facts* (2019)

- Full documentary (58 mins) streaming link:
<https://www.bbc.co.uk/iplayer/episode/m00049b1/climate-change-the-facts>
- Summary (4 mins) streaming link:
<https://www.bbc.co.uk/programmes/p076w7g5>

Climate change impacts

- Case study: Ironbridge Gorge WHS Floods
<https://www.museumsassociation.org/museums-journal/news/2022/02/flooding-at-ironbridge-museums-for-third-year-running/#>

Module 2

The Heritage Sector

- The Historic England Climate Change Strategy
<https://historicengland.org.uk/whats-new/features/climate-change/our-strategy/>

Climate justice

- The injustice of climate change: explainer video
<https://www.youtube.com/watch?v=pHRu0VV-Dbw> (10 mins 10 secs)
- The Carbon Map: interactive map <https://www.carbonmap.org/>
- What is climate justice?: explainer video
<https://www.youtube.com/watch?v=Uqkkp7qUujc> (2 mins 52 secs)
- 2022 UK heatwave: urban island effect explainer video
<https://www.youtube.com/watch?v=YX3C3eq2MJY> (2 min 40 secs)
- Case Study: Faith for the Climate, St John's Waterloo
<https://faithfortheclimate.org.uk/>

Co-benefits of climate action

- Case study: Updating lighting technologies, LED retrofit, Ashmolean <https://advisor.museumsandheritage.com/features/lighting-ashmolean-led-lights/>
- Case study: Sustainable future of Victorian Houses <https://historicengland.org.uk/research/heritage-counts/2019-carbon-in-built-environment/case-studies/12a-dalby-square/>
- Case study: Develop a plan, Brunel Museum <https://thebrunelmuseum.com/sustainability-at-the-brunel-museum/>
- Case study: Historic Houses Sustainability Award <https://www.historichouses.org/sustainability-award/>
- Case study: Studley Royal & Fountains Abbey WHS, Skell Valley <https://historicenvironmentforum.org.uk/wp-content/uploads/2021/11/HeritageResponds-Case-Study-NT-and-Nidderdale.pdf>
- Case study: Cross-sector collaboration on Climate Change, Historic Environment Forum (HEF) <https://historicenvironmentforum.org.uk/>
- Case study: Sponsorship, Royal Academy <https://www.royalacademy.org.uk/exhibition/architecture-environment-eco-visionaries>
- Case study: Sustainable digital, The Networked Condition <https://thenetworkedcondition.com/>
- Case study: Tackling dirty and spent PPE <https://www.mola.org.uk/about-us/our-story/sustainability | MOLA>
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Module 3

Climate Targets – what’s the difference?

- Differences between terms – Net Zero and Zero Carbon <https://greenly.earth/en-gb/blog/company-guide/whats-the-difference-between-carbon-neutral-and-net-zero>
- <https://www.businessgrowthhub.com/resource-efficiency/climate-change-net-zero-jargon-buster>

Policy

- IPCC 2018 report: <https://www.ipcc.ch/sr15/>
- IPCC August 2021 Sixth Assessment report: <https://www.ipcc.ch/assessment-report/ar6/>
- The Paris Agreement: UNFCCC key aspects: <https://unfccc.int/most-requested/key-aspects-of-the-paris-agreement>

- COP26: Carbon Brief outcomes summary
<https://www.carbonbrief.org/cop26-key-outcomes-agreed-at-the-un-climate-talks-in-glasgow/>
- COP27: Carbon Brief outcomes summary
<https://www.theguardian.com/environment/2022/nov/20/cop27-climate-summit-egypt-key-outcomes>
- UK Policy: UK Climate Change Act (2008)
<https://www.legislation.gov.uk/ukpga/2008/27/contents>
- BEIS UK Greenhouse Gas Emissions 2020
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1051408/2020-final-greenhouse-gas-emissions-statistical-release.pdf
- UN Sustainable Development Goals (SDGs)
<https://www.un.org/sustainabledevelopment/sustainable-development-goals/>
- Save our Wild Isles: <https://www.saveourwildisles.org.uk/>

COP28

- COP28 summary of Carbon Brief here: <https://www.carbonbrief.org/cop28-key-outcomes-agreed-at-the-un-climate-talks-in-dubai/>

Carbon offsetting and insetting

- More about offsetting: <https://policy.friendsoftheearth.uk/insight/dangerous-distraction-offsetting-con>
- More about offsetting and insetting: <https://carbonliteracy.com/carbon-insetting-vs-carbon-offsetting/>

Carbon Footprints

- WWF personal footprint calculator tool: <https://footprint.wwf.org.uk/>
- Food impacts: Our World in Data food production impacts
<https://ourworldindata.org/environmental-impacts-of-food>
- Travel impacts: BBC article <https://www.bbc.co.uk/news/science-environment-49349566>
- Energy impacts: Resource: Energy Saving Trust
<https://energysavingtrust.org.uk>
- Waste impacts: Zero Waste Europe: zero waste hierarchy
<https://zerowasteurope.eu/2019/05/a-zero-waste-hierarchy-for-europe/>
- Plastic: UN Plastic Treaty roadmap <https://www.carbonbrief.org/daily-brief/biggest-green-deal-since-paris-un-agrees-plastic-treaty-roadmap/>

Greening your site or land

- Zero-emission landscaping equipment: <https://ww2.arb.ca.gov/our-work/programs/zero-emission-landscaping-equipment>
- RHS, mulching and composts: <https://www.rhs.org.uk/soil-composts-mulches/mulch>
- Peatlands store twice the amount of carbon as the world's forests, UNEP: <https://www.unep.org/news-and-stories/story/peatlands-store-twice-much-carbon-all-worlds-forests>
- Carbon Negative Landscaping: <https://www.greenbuilt.org/carbon-negative-landscaping/>
- How to turn your garden into a carbon sink: <https://www.bbc.com/future/article/20220610-how-to-turn-your-garden-into-a-carbon-sink>
- How to reduce your carbon footprint in the garden: <https://www.gardenersworld.com/how-to/grow-plants/how-to-reduce-your-carbon-footprint-in-the-garden/>

Low carbon heritage organisations

- Case study: Historic Buildings & Places <https://hbap.org.uk/>
- Case study: Cafe at Blenheim Palace WHS <https://www.blenheimpalace.com/sustainability/>
- Case study: sustainable steam hackathon, London Museum of Water & Steam <https://waterandsteam.org.uk/sustainable-steam-hackathon/>
- Case study: NPO museum plans and actions, Tullie House <https://www.tulliehouse.co.uk/about-us/news/preserving-past-and-protecting-future>
- Case study: smaller museum plans and actions, Brunel Museum <https://www.museumsassociation.org/museums-journal/news/2021/08/brunel-museum-responds-to-climate-crisis/>
- Case study: making your museum cycle friendly, Museum Galleries Scotland resource <https://www.museumsgalleriesscotland.org.uk/blog/making-your-museum-cycle-friendly/>
- Case study: English Heritage Action Plan <https://www.english-heritage.org.uk/siteassets/home/about-us/our-priorities/sustainability/climate-action-plan.pdf>
- Case study: passive environmental control, Bristol Archives <https://www.bristolmuseums.org.uk/blog/archives/making-archives-greener/>

Module 4

Talking about climate change

- Explainer video (4 mins 1 sec)
<https://www.youtube.com/watch?v=RkklaXhbTuA>

The discourses of delay

- Reference paper <https://www.cambridge.org/core/journals/global-sustainability/article/discourses-of-climate-delay/7B11B722E3E3454BB6212378E32985A7>

Addition

all sector resources

Climate Hazards & Risk

- National Trust, UK Climate Hazards Map, interactive <https://national-trust.maps.arcgis.com/apps/webappviewer/index.html?id=a44672bb34c4491a909034d0eed76583>

Carbon Reduction in Archaeology

- ClfA Carbon Reduction Guide Table
<https://www.archaeologists.net/sites/default/files/ClfA%20Carbon%20Reduction%20Table%20January%202024.pdf>

Energy Management

- Pilio <https://www.piliogroup.com/>
- ARUP & MDNW U-Value Guide
https://museumdevelopmentnorthwest.files.wordpress.com/2012/06/arup-u-values-guide_single-pg_issue-21-march-2017dblp-pg-spread1-final-copy.pdf

Sponsorship

- Culture Unstained <https://cultureunstained.org/>
- Julie's Bicycle, Financing the Arts webinar
<https://juliesbicycle.com/resource/creative-climate-justice-financing-the-arts/>

Digital Emissions

- Exploring digital carbon footprints report, Jisc
<https://www.jisc.ac.uk/reports/exploring-digital-carbon-footprints>
- Creative Carbon Scotland digital emissions guide
<https://www.creativecarbonscotland.com/resource/creative-carbon-scotlands-guide-to-your-digital-carbon-footprint/>
- Ethical Consumer, green email providers
<https://www.ethicalconsumer.org/technology/shopping-guide/email-providers>

Carbon Calculator Tools

- Julie's Bicycle Creative Green Tools <https://juliesbicycle.com/our-work/creative-green/creative-green-tools/>
- Ecolibrium <https://ecolibrium.earth/>
- Gallery Climate Coalition <https://galleryclimatecoalition.org/>
- Website Carbon <https://www.websitecarbon.com/>

Cultural sector resources

- Manchester City Council Zero Carbon Culture Guide https://juliesbicycle.com/wp-content/uploads/2022/02/Manchester_Culture_Guide_v.10-1.pdf
- Manchester City Council & Julie's Bicycle Sustainable Events Guides <https://juliesbicycle.com/resource/sustainable-events-guides-with-manchester-city-council/>
- Theatre Green Book <https://theatregreenbook.com/>

Procurement

- Ethical Consumer, greenwashing action guide https://www.ethicalconsumer.org/consumers-guide-uk-action-greenwash?utm_source=twitter&utm_medium=social&utm_campaign=twitter

Stay informed, keep learning, take action

- Julie's Bicycle guide to deciphering green gibberish resource https://juliesbicycle.com/resource_hub/deciphering-green-gibberish/
- Climate in Colour, resource and e-learning <https://climateincolour.com/>
- Intersectional Environmentalist, resource and activism <https://www.intersectionalenvironmentalist.com/>
- Intersectionality TED Talk Kimberel  Crenshaw <https://www.youtube.com/watch?v=akOe5-UsQ2o>
- Julie's Bicycle, The Colour Green podcast <https://juliesbicycle.com/resource/podcast-the-colour-green/>
- Client Earth, environmental legal charity <https://www.clientearth.org/>
- Slow Factory, climate justice and social inequity hub <https://slowfactory.earth/>
- Climate Outreach, evidence based social and climate justice solutions <https://climateoutreach.org/>
- Climate Visuals, evidence-based photography resources <https://climatevisuals.org/>
- Climate Lab, University of California, resources <https://www.universityofcalifornia.edu/climate-lab>
- The Tyndall Centre for Climate Change Research <https://tyndall.ac.uk/> and Tyndall Talks podcasts <https://tyndall.ac.uk/podcasts/>

- Mike Berners-Lee books: *How Bad Are Bananas?*
<https://howbadarebananas.com/> and *There Is No Planet B*
<https://theresnoplanetb.net/>
- Greta Thunberg book: *The Climate Book*
<https://www.penguin.co.uk/books/446610/the-climate-book-by-thunberg-greta/9780241547472>
- Penguin Green Ideas books series
<https://www.penguin.co.uk/series/GRNIDEA/green-ideas>

Personal emissions reduction resources

Green Finance

- Ethical Consumer's banking and building society organisational ranking
<https://www.ethicalconsumer.org/money-finance/shopping-guide/current-accounts>
- Pensions divestment, BBC video <https://www.bbc.co.uk/ideas/videos/is-your-pension-contributing-to-climate-change/p083sc66>

Using your voice

- The Campaign against Climate Change, contact your MP
https://www.campaigncc.org/lobbying_mps
- Find your MP here <https://members.parliament.uk/constituencies/>

Carbon footprinting tools

- Impact community carbon calculator, average household CO2e footprint in your community <https://impact-tool.org.uk/>
- Place-based carbon calculator (PBCC) <https://www.carbon.place/>
- Giki, in-depth individual carbon calculator <https://giki.earth/>

Science and data

- Science-based Targets, GHG pathways
<https://sciencebasedtargets.org/what-is-a-science-based-target/>
- The Carbon Trust, strategic insight and data <https://www.carbontrust.com/>
- Our World in Data <https://ourworldindata.org/>

Energy efficient homes

- Carbon Co-op, not-for-profit household energy reduction social enterprise
<https://carbon.coop/about/>
- Heating and insulation energy emissions reduction tips, Friends of the Earth
<https://friendsoftheearth.uk/climate-change/saving-energy-home-heating-and-insulation>

- National Energy Foundation, advice on reducing home energy use www.nef.org.uk
- Energy Saving Trust, advice on reducing home energy use www.energysavingtrust.org.uk/

Food

- Ten ways to reduce meat consumption, Friends of the Earth <https://friendsoftheearth.uk/food/10-ways-eat-less-meat>
- Why Eat Less Meat <http://www.whyeatlessmeat.com/>
- Food waste, Hubbub: community fridges <https://www.hubbub.org.uk/the-community-fridge>
- Seasonal eating, UK calendar <https://www.newcoventgardenmarket.com/fruit-veg/british-seasonal-calendar>

Green Transport & Active Travel

- CycleStreets, UK-wide journey planner <https://www.cyclestreets.net/mobile/>
- No Fly Holiday Ideas, Friends of the Earth <https://friendsoftheearth.uk/climate-change/ethical-travel-nofly-holiday-ideas>
- Greener Journeys, supporting low-carbon travel making decisions <https://greenerjourneys.com/publications/>

Museum Toolkit resources

Additional Resources from the Museums Toolkit

- Show your stripes, University of Reading <https://showyourstripes.info/>
- Julie's Bicycle Museums Environmental Framework (published 2017) https://juliesbicycle.com/wp-content/uploads/2019/10/Museums_Environmental_Framework_2017.pdf
- Case study: Climate Justice Group, Manchester Art Gallery <https://manchesterartgallery.org/event/climate-justice/>
- Case study: Grey on Green, Manchester Museum <https://mmhellofuture.wordpress.com/2022/06/23/grey-on-green-part-1-older-people-shaping-a-sustainable-future/>
- Case study: Climate collections and resources, People's History Museum <https://phm.org.uk/environment-and-the-climate-crisis-resources/>
- Case study: Heatwave spaces, Musée de Beaux Arts, Bordeaux, France <https://www.museumsassociation.org/museums-journal/opinion/2022/07/how-museums-can-help-people-who-are-homeless-during-the-heatwave/>
- Museum Association resource <https://www.museumsassociation.org/campaigns/decolonising-museums/supporting-decolonisation-in-museums/introduction/>

- Case study: Totem LATAMAT <https://www.bordercrossings.org.uk/whats-on/programme/totem-latamat>
- Julie's Bicycle & ACE Environmental Report 2019-20 <https://www.artscouncil.org.uk/sites/default/files/download-file/ACE%20JB%20annual%20report%202019-20.pdf>
- Julie's Bicycle & ACE Environmental Report 2020-21 <https://juliesbicycle.com/wp-content/uploads/2022/04/ACE371-Environment-Responsibility-2020-21-FINAL.pdf>
- Julie's Bicycle & ACE Environmental Report 2021-22 <https://juliesbicycle.com/wp-content/uploads/2022/12/ACE389-Environment-Sustainability-2021-22-V6.pdf>
- Julie's Bicycle, Energy webinars: Action during crisis <https://juliesbicycle.com/resource/energy-impacts-taking-meaningful-action-in-the-midst-of-a-crisis/> and clean energy <https://juliesbicycle.com/resource-webinar-cleanenergy/>
- AIM, Energy Action Group <https://aim-museums.co.uk/for-aim-members/aim-energy-action-group/>
- Museums Association, Museums for Climate Justice <https://www.museumsassociation.org/campaigns/museums-for-climate-justice/>
- Julie's Bicycle, Climate Justice <https://juliesbicycle.com/our-work/climate-justice/>
- Museum Freecycle UK <https://www.freecycle.org/town/MuseumUK>
- Roots & Branches, Museum Development <https://mduk.org.uk/roots-and-branches/>
- Carbon Literacy for Museums Toolkit <https://carbonliteracy.com/toolkits/museums/>
- The Carbon Literacy Project <https://carbonliteracy.com/>
- Manchester Museum Carbon Literacy actions <https://mmhellofuture.wordpress.com/2022/09/08/carbon-literacy-for-museums-part-1/>