

CLiVe Resources Sheet, a work in continuous progress

latest edit: 6th December 2022

(00:00 mins) timings show it is a video. (✓✓) shows from it is from CLP resource list.

The number and range of resources grows all the time. This list aims for useful, relevant resources, some recent, some older. Please share other links or resources you have found particularly good with a line to say why, including what they are about. Remember: stay informed but you don't need to be an expert. The most important thing is to talk to others and to act.

*Excellent introduction article

https://www.theguardian.com/environment/2022/nov/25/cop15-humans-v-nature-our-long-and-destructive-journey-to-the-age-of-extinction-aoe?CMP=Share_AndroidApp_Other

*Carbon Calculators

- <https://carbonindependent.org/>
- [WWF Carbon Calculator](#)
- <https://www.carbonfootprint.com/measure.html>
- <https://vetsustain.org/shop/carbon-calculator> Vet Sustain Carbon Calculator for Veterinary Practices

*Vetnetwork UK resources (explains where we are coming from)

Films by Susi Arnott, Walking Pictures

- 'Greenhouse Earth' (02:57 mins). Introducing greenhouse effect and Keiling curve: <https://vimeo.com/522074926> .
- 'Energy, carbon and stuff' (05:19 mins). Introducing physics and chemistry of greenhouse gases: <https://vimeo.com/522074485> ; (slightly revised version at (06:36 mins) <https://vimeo.com/674147027>)
- 'Group Action Proposals' (16:50 mins), part of a CL training pitching exercise: <https://vimeo.com/483711653>

VT articles

- 'Reimagining the veterinary profession' <https://www.vettimes.co.uk/article/reimagining-the-veterinary-profession/>
- 'Vet-led team: a harmful label choice' <https://www.vettimes.co.uk/article/vet-led-team-a-harmful-label-choice/>
- 'We need to talk about energy' <https://www.vettimes.co.uk/article/we-need-to-talk-about-energy/>

Veterinary Climate Justice and Action – local and global

- *Two from COP27:
<https://www.aljazeera.com/opinions/2022/11/10/livestock-is-a-form-of-climate-justice-in-the-global-south>
<https://www.aljazeera.com/news/2022/11/11/ngo-urges-leaders-in-cop27-to-discuss-plant-based-treaty>
- *The Conversation: [Climate justice and its role in the Paris Agreement](#) ✓✓ this short, clearly written article, though from 2016, provides a perfect opener for this topic if in every section you ask yourself 'what environmentally friendly veterinary services are available there?'. And it starts with a picture of a working donkey!
- *What NASA Knows from Decades of Earth System Observations (look out for the methane plumes) <https://svs.gsfc.nasa.gov/31168>
- *Global Carbon Atlas, excellent resource for veterinary climate justice: <http://globalcarbonatlas.org> ✓✓
- *#Show your Stripes, University of Reading, global heating by country: <https://showyourstripes.info>
- [Climate Reality Project](#) : [The human impact of Climate Change: Personal Stories from Somalia, Ghana and Kenya](#) (07:55 mins) ✓✓
- *Environmental Justice Atlas* –The [EJ Atlas](#) global stories of communities struggling for environmental justice ✓✓
- Global Air Quality in real time: <https://aqicn.org/map/world/> ✓✓
- Climate Visuals: <https://climatevisuals.org> ✓✓ Excellent photo resource with each picture explained
- *Carbon Map* – [Which countries are responsible for climate change and which will be most vulnerable to the impacts, interactive map](#) ✓✓ from 2014 but quick and easy to use
- [C40 Cities – Benefits of climate action](#) ✓✓ this might be a good jumping off point for those interested in the lives and health and welfare of wildlife and companion animals in future cities around the world.
- Google Search: [Impacts of Climate Change Infographics](#) ✓✓ very sensible google search (best to refresh)
- AW Hui Pin Julia Lee perspective on Chinese attitudes to animal welfare 15th April 2021, Vet Sustain blog: <https://vetsustain.org/work/animal-welfare-across-cultural-landscapes>

- Climate Outreach: [Walking the Walk](#) ✓✓

Veterinary community resources

- *Vet Sustain Greener Practice Checklist: <https://vetsustain.org/resources/vet-practice-checklist>
- *VDS, BVA, BVNA, Vet Sustain GVPC webinars (5x1hr): <https://www.vds-training.co.uk/resources/webinars?page=1>
- Vet Sustain: Regenerative agriculture <https://vetsustain.org/resources/an-introduction-to-regenerative-agriculture-for-vets>
- World Veterinary Association position on the Climate Change emergency: https://worldvet.org/uploads/news/docs/wva_position_on_the_global_climate_change_emergency.pdf
- Andrew Prentis: Carbon footprint of the animals under our care & Parasite control in pets: <https://www.veterinary-practice.com/article/the-carbon-footprint-of-the-animals-under-our-care> <https://www.veterinary-practice.com/article/parasite-control-in-pets>
- Perkins, R, 2020: *Are pet parasite products harming the environment more than we think?* VR 5 Sept 2020
- Jones RS & West E, 2018. *Environmental sustainability in veterinary anaesthesia*. Veterinary Anaesthesia and Analgesia. doi: 10.1016/j.vaa.2018.12.008 , ([https://www.vaajournal.org/article/S1467-2987\(19\)30018-2/pdf](https://www.vaajournal.org/article/S1467-2987(19)30018-2/pdf) or <https://pubmed.ncbi.nlm.nih.gov/31202620/>)
- Agriculture Act 2020 - 'Public money for public good' <https://commonslibrary.parliament.uk/research-briefings/cbp-8702/#:~:text=The%20Bill%20provides%20the%20legislative,environmental%20or%20animal%20welfare%20improvements>
- SRUC, Low Carbon Beef case study: https://pure.sruc.ac.uk/ws/portalfiles/portal/37015670/low_carbon_beef_case_study.pdf (NB beef pie chart from report figures available from Alex Briault, Vetnetwork UK)
- Ciel Centre For Innovation Excellence in Livestock: *Net Zero And Livestock – how farmers can reduce emissions*: <https://www.cielivestock.co.uk/expertise/net-zero-carbon-uk-livestock/report-april-2022/> (NB milk pie chart p17 fig 2 downloadable pdf)
- Farm Carbon Toolkit: <https://farmcarbontoolkit.org.uk/>
- Cool Farm Tool (Cool Farm Alliance, many huge names in food production incl Cargill) (<https://coolfarmtool.org/>)

Science

- We have known that burning fossil fuels could cause global warming for a long time, Fairfax Media, via National Library of New Zealand: https://paperspast.natlib.govt.nz/newspapers/ROTWKG191208_14.2.56.5 ✓✓
- See Vetnetwork UK Susi Arnott films above
- Evidence that it is man made: [Difference between climate change and natural cycles](#), by Kathrine Heyhoe ✓✓
- The **Keeling Curve** is a graph that plots the ongoing change in concentration of carbon dioxide in Earth's atmosphere since the 1950s: <https://keelingcurve.ucsd.edu/> ✓✓
- **NASA: Climate Change Evidence &**
- Climate vs Weather https://www.nasa.gov/mission_pages/noaa-n/climate/climate_weather.html ✓✓
- GHGs Lifespan GWP: <https://unfccc.int/process/transparency-and-reporting/greenhouse-gas-data/greenhouse-gas-data-unfccc/global-warming-potentials>
- Global Warming Potential vs CO₂ equivalent: <https://niwa.co.nz/atmosphere/faq/what-are-global-warming-potentials-and-co2-equivalent-emissions>
- Guardian: [What are the main man made greenhouse gases](#) & [How long do greenhouse gases stay in the air?](#) ✓✓
- Global Warming Potential and CO₂ equivalent & other short explainers: <https://www.youtube.com/c/Covestro>

Economics

- Stern Review 2006 'The Economics of Climate Change' (pp600+), p4 (p viii) 'Climate change is the greatest market failure the world has ever seen, and it interacts with other market imperfections.': http://mudancasclimaticas.cptec.inpe.br/~rmclima/pdfs/destaques/sternreview_report_complete.pdf
- Daly, Herman E. and Cobb, John B., 1989: For the common good: redirecting the economy towards community, the environment and a sustainable future. Green Print, The Merlin Press, London.

Relevant Human/Public health resources

- Lancet 'Tracking the connections between public health and climate change' <https://www.lancetcountdown.org/>

- NHS, <https://www.england.nhs.uk/greenernhs/wp-content/uploads/sites/51/2020/10/delivering-a-net-zero-national-health-service.pdf> : (76 pages) thorough and insightful, eg see Fig 10 re reducing emissions from inhalers and anaesthetic gases
- 2022-06-08: UK Govt re Climate and Human Health: <https://www.gov.uk/government/publications/climate-change-applying-all-our-health/climate-and-health-applying-all-our-health>

Impact/Footprints/Influence

- Guardian page based on 'How bad are bananas? By Berners-Lee: [Carbon Footprint of Everything](#)
- AJ+: [Climate Change Animation Shows Devastating Effects](#) (03:04 mins) ✓✓
- UK Gov GHG Conversion Factors for Company Reporting to help business calculate their carbon emissions, including home working (downloadable spreadsheets):
- <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>
- Princeton University excellent secondary school teaching resource (consider for future CLiVes): [Stabilisation wedges game](#) ✓✓

Actions – short-medium term, longer term

- (see Susi Arnott film above)
- UN Act Now: <https://www.un.org/en/actnow/>
- Global Weirding: [I'm just one person what can I do about climate change?](#) (07:31 mins) ✓✓
- Health co-benefits: https://www.youtube.com/watch?v=zflpQ0auVYU&list=PLWn9KKT6U9i_BxhSk-yu1w8rhGc6G6lxc&index=1 (03:37 mins) ✓✓
- Co-benefits: How can taking action on climate change make all our lives better? (01:38 mins), LSE Grantham Institute: <https://www.youtube.com/watch?v=7qR-ZgJ5oww>
- Fast Company: [5 ways to convince people to actually do something about climate change](#) ✓✓
- They work for you – learn about your MP: <https://www.theyworkforyou.com/> ✓✓
- *Science Daily* - [Eating beans instead of beef would sharply reduce greenhouse gasses](#) ✓✓

Other recommended

- BBC The People vs Climate Change (01:03:01 hrs): <https://www.bbc.co.uk/iplayer/episode/p097sbzc/the-people-v-climate-change>
- BBC David Attenborough, Climate Change - The Facts (58 mins): <https://www.bbc.co.uk/iplayer/episode/m00049b1/climate-change-the-facts>
- Vox: [How Climate Change is making hurricanes worse](#) (03:22 mins) ✓✓ interesting re complexity of data
- Guardian: [In an era of dire climate record the US and South Asia floods won't be the last](#) ✓✓ old but impactful (NB The Guardian has many informative environment articles which do not require registration to read)
- Phys.org: [The most effective individual steps to tackle climate change](#) ✓✓ infographic and research

Other potentially valuable

Websites

- World Resources Institute w World Business Council for Sustainable Development GHG protocol 'A Corporate Accounting and Reporting Standard' Greenhouse Gas Protocol set standards: <https://ghgprotocol.org/>