

FILM  
FOR  
FUTURE



# BECTU

## Art Department Branch

**Working Sustainably within Art Department**

[www.bectuartdepartment.co.uk](http://www.bectuartdepartment.co.uk)

# Introduction

This document was created by working Sustainability Reps of the Art Department within BECTU LPD and is for guidance in developing sustainable practices within the industry. Crew members may use it as inspiration for building their own set of practices, which will naturally adapt between each job and team.

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*BECTU Art Department branch recognise that our industry has an impact on the environment and now more than ever before we have a responsibility to ensure we try to limit this impact. We need to make better choices within the Art Department, alongside productions and studios as a whole.*

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In the Art Department branch of BECTU we have created a new working group for issues of the environment and sustainability, relating to our working practices. We have created a three-prong strategy for how we can best tackle reducing our industry impact to reach net zero.

- 1** Our branch level strategy: understanding the specific environmental issues that our Art Department members experience in their daily working practices and offering resources to help bring about change within the Art Department.
- 2** Our industry level strategy: A cross branch approach to bringing about systemic change across industry. This includes working alongside industry specific agencies such as BAFTA albert and Cut It about our environmental impacts in film. We will also be encouraging our suppliers to transition to processes with reduced carbon and material waste impact.
- 3** Our societal level strategy: feeding back to society and our Government with our industry specific findings.

# Introduction

The unique situation faced during the current Coronavirus crisis will undoubtedly pose both challenges and opportunities to shift our working practices to more sustainable methods. Priority should be given to all health and safety advice. However, we hope this document can begin to encourage both action and dialogue.

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When working within high pressured and demanding environments, we often find it difficult to change practices, attitudes and behaviors in relation to sustainability.

However, recent developments in understanding the Climate and Ecological crises has been fuelling change worldwide. It is vitally important that our industry takes active steps to mitigate that risk through collective action.

Change can happen if we unite as crew. We must challenge out-dated and wasteful practices to encourage sustainability throughout the industry.

Attention should be given to share new responsibilities amongst all members of the art department team, in order to develop department-wide awareness and action.

# Pre-Production

Pre-Production is fundamental to establishing key sustainable practices. As one of the first departments to start a job we can help to set good practice and develop procedures that other departments can follow.

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Speak with your co-ordinator, supervisor or HOD before starting the job and share this document with them. We suggest all members of the art department complete Albert training (*see appendix*).

## Discussions with Production Department

**Enquire** Make production aware that your Art Department is acting to reduce its environmental impact. Request information on what environmental policies have already been established.

**Take Action** Make production aware that the art department is acting to reduce its environmental impact by sharing your green manifesto with them.

**Recycling Bins** Make sure the department has recycling stations - paper / plastic / batteries / ink cartridges, with clear instructions on what can and what can't be recycled.

**Consumables** Inform production that you would like to order reusable items for your department. The initial order may be slightly higher but subsequent top ups will be much lower. Alternatively if providing some personal reusable equipment, the initial order will be lower.

**Encourage** Working from home / flexible working when and where possible. The average commute for crew across London contributes considerable amounts of carbon to the atmosphere every day.

**Dietary Choices** Meat production is a heavy emitter of greenhouse gases, of water consumption, of agricultural land, and contributes to the destruction of the clearance of forests. Consider requesting vegetarian meals. Support meat-free days or similar initiatives to reduce the amount of meat purchased.

**Water Bottles** bring your own reusable water bottles and coffee cups.

# Pre-Production

**Kitchen** Use sustainable office / kitchen suppliers (*see appendix list*). Make sure there are compost bins situated in every kitchen and Eco cleaning products are provided. Organic and healthy food in kitchens - better for us and the environment.

**Offset** – when flying is unavoidable, offset air travel that is taken.

**Blue Shoe Covers** If shoes covers are required to protect locations, ask if more durable alternatives to single-use plastic covers can be supplied.

**Coffee** Consider buying filter coffee in bulk during prep. Single-use coffee pods have a high environmental cost and should be avoided.

**Batteries** Prioritise mains power where possible. Take batteries off charge once they're at full capacity in order to reduce power consumption and decrease carbon emissions.

**Buy Local** Buy more local products where possible. Purchase less off Amazon and become more mindful of where items are being shipped from. Sourcing products from independent more locally sourced companies will help tackle that important carbon net zero goal.

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## Discussions with Production Department

**Printing** Art Department generate the most paperwork on films, and some is required but print consciously, check drawings on computer screen before printing out. Only print one full size if required and when creating a technical drawing put as much information on a drawing sheet as possible to reduce having multiple sheets. Make sure only departments that actually require the drawing receive it as a printout as many will now prefer digital copies. Try getting recycled paper for printers and make sure ink cartridges are returned for refilling.

# Pre-Production

**Digital Paperwork** Use digital P.Os, time sheets, scripts, call sheets and use digital storage. Concepts, drawings and research can all be viewed digitally on personal devices and on the departments large screens for meetings. Print only if necessary.

**Designing** Think about conscious construction when designing sets. Use actual material/ sheet sizes to reduce waste without compromising aesthetic look of the design. Speak with the construction department and find out what materials they are using.

**Sourcing Sustainably** Hire rather than buy, and shop second hand if possible. Ask suppliers what their environmental policies are, and where you have several options of suppliers to purchase from, compare these policies. Let suppliers know what the policies of their competitors are. Use reusable bags for shopping rather than disposable ones. When shopping second hand, choose to shop from charity shops.

**Consider** your day and plan journeys sensibly. Try to condense trips into close geographical proximity of each other to limit car journeys.

**Deliveries** Request that deliveries come in as minimal packaging as possible, Check the environmental policies of the delivery services that you use.

**Collections** Consider transport when placing orders and weigh up the size of vehicle that you may need to collect your order.

**Promote** green product placement - vehicles and items. Consult Albert's 'Planet Placement' guide.

**Use alternatives** to toxic and safe paints / solvents both in the department and on set.

**Cycle** if possible, cycle to and from work. Ask your studio if they have any initiatives in place to support cycling to work.

**Reusable Containers & Cutlery** Bring with you reusable food containers, crockery, cutlery and drinks containers.

**Dailies Crew** Inform all dailies in advance that your department is maintaining a sustainable working policy, perhaps sharing this document as a starting point. Share your digital paperwork so that they can familiarise themselves with any relevant apps and remind them to bring any reusable food/ drinks containers.

# During Production

## COVID 19 Protocols

**Face masks** reusable or washable

**Gloves** biodegradable nitrile gloves

**Hand sanitiser** large bottles and refills.

**On Set Craft** disposable food service ware - compostable cups/plates/cutlery

**Discourage** a throw away culture of individually packaged foods. Where we used to share food from the kitchen, now there is likely to be a ban on communal foods after Covid. An alternative to this could be a meal allowance if you bring your own.

# During Production

As shooting begins, the practices we have now formulated during prep lay a firm foundation for maintaining sustainable working processes on set.

As shooting begins, the practices we have now formulated during prep lay a firm foundation for maintaining a sustainable on set environment. The environmental values we hold at home should naturally follow into our working lives. We should not be led to feeling ashamed of making changes where needed to help tackle our climate and ecological crisis. We must endeavour to share new ideas and practices amongst crew members and other departments. There maybe additional crew brought on to help with the workflow please make them aware how the department is keen to be sustainable and eco-friendly.

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## ON SET GOALS

On set Art Department crew is minimal supported by the stand-by team. Speak with the stand-bys and make sure they have all they need for the shoot.

**Hero Props / Graphics** make sure that the hero props and graphics are being delivered to stand-bys in reusable well labelled packaging.

A continuation of policies applied during prep on printing, digital paperwork, resourceful designing, sustainable sourcing, journey planning, deliveries, collections, green product placement, alternative supplies to toxic paints and solvents, cycling as much as possible, using reusable containers and cutlery. As above in 'Pre Production – discussions with your Art Department.



# Wrap

Once production is over, it is important to carry through your ethical practices whilst carrying out wrap processes.

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**Responsible Wrap** Sell, Donate, Recycle.

**Sell Via** crew sales, to other productions or to Prop Hire Houses. This reduces waste to landfill and can be kept to recoup costs of the production, too.

**Props and Set Decoration** Where purchased props and set dressing can go into a direct reuse elsewhere, consider who could benefit most from the reuse of these items.

For contemporary home interior purchased props and set dressing, consider charities and organisations who help to rehouse people in the UK.

For purchased period props and set dressing, contact prop hire houses to offer your items as a donation, or sale, to them. Well sourced period props being redistributed to hire houses means that these props and set dressing remain in industry for future hires, they support the prop houses, reduce waste to landfill,.

**Exchange** items via platforms such as 'Set Swap Cycle', or 'Brilliant Bartering'.

**Storing** sets / pac striking when sequences etc are intended, look at companies like CAMA, Set Aside and also franchise films to see what they do with storing sets. Ask storage companies what their environmental policies are.

**Recycle** If sets and props cannot be sold, exchanged or donated, find reputable companies to recycle your remaining materials. Ask any company offering a recycling service to give details of what their recycling process is, and check whether what they are offering is the lowest impact option for recycling.

This document was produced by active members of the art department branch and will continue to evolve with our collective practice. If you have any suggestions or questions regarding this document, please contact us at: [bectusustainabilitycommittee@gmail.com](mailto:bectusustainabilitycommittee@gmail.com)

# Appendix 1: Industry References

**Adgreen** <https://www.adgreen-apa.net>

**Albert** <https://wearealbert.org/>

**ARUP, A Screen New Deal** <https://www.arup.com/perspectives/publications/research/section/a-screen-new-deal-a-route-map-to-sustainable-film-production>

**BBC Strategy** <https://www.bbc.com/aboutthebbc/reports/policies/sustainability>

**BFI BS8909 Sustainable Film British Standard** <https://shop.bsigroup.com/Browse-By-Subject/Environmental-Management-and-Sustainability/Sustainability/Sustainable-film-with-BS-8909/>

**BFI Green Matters** <https://www2.bfi.org.uk/sites/bfi.org.uk/files/downloads/bfi-green-matters-uk-screen-sector-report-2020-v1.pdf>

**Cineregio Green Report 2020** [https://www.cineregio.org/publications/green\\_regio\\_report\\_2020/](https://www.cineregio.org/publications/green_regio_report_2020/)

**Climate Story Lab** <https://climatestorylab.org/>

**Creative Carbon Scotland** <https://www.creativecarbonscotland.com/>

**CUT IT** <https://cutit.org.uk/>

**Disney Environmental Sustainability** <https://thewaltdisneycompany.com/environmental-sustainability/>

**ECO COP** <https://greenfilmshooting.net/blog/de/wp-content/uploads/sites/2/2015/12/ECO-COP-web-2015-English.pdf>

**Film4Climate** <https://www.connect4climate.org/initiatives/film4climate>

**Green Film Shooting** <https://greenfilmshooting.net/blog/en/about-us/>

**Green Production Guide** <https://www.greenproductionguide.com>

**Green Screen** <https://www.interregeurope.eu/greenscreen/>

**Greenshoot** <https://www.greenshoot.com/>

**Green Spark Group** <https://www.greensparkgroup.com/>

**Julie's Bicycle** <https://juliesbicycle.com/contact/>

**Producers Guild of America**

[https://www.producersguild.org/page/going\\_green](https://www.producersguild.org/page/going_green)

[https://www.producersguild.org/general/custom.asp?page=Sustainable\\_Producer](https://www.producersguild.org/general/custom.asp?page=Sustainable_Producer)

**World Bank** <https://www.worldbank.org/en/topic/climatechange/overview>

**The European Producers Club Green Charter** <https://www.europeanproducersclub.org/epc-green-charter>

# Appendix 2: Suppliers

## Art Department

**Set Swap Cycle** <https://www.facebook.com/groups/731154647000790>

**Cradle to Cradle** 'Remaking the Way We Make Things' <http://www.cradletocradle.com>

**The Ellen MacArthur Foundation** <https://www.ellenmacarthurfoundation.org>

**Circular Arts Network** <https://www.canarts.org.uk/listing-category/materials/fabric>

## Set Decoration

**Buy Me Once** <https://uk.buymeonce.com>

**Kiltonga** <https://www.facebook.com/kiltongacc/> - charity shop, Northern Ireland

**Set Swap Cycle** <https://www.facebook.com/groups/731154647000790>

**Brilliant Bartering** <https://www.facebook.com/groups/Brilliantbartering>

**British Heart Foundation Furniture Collection** <https://www.bhf.org.uk/shop/donating-goods/book-furniture-collection-near-me>

**Circular Arts Network** <https://www.canarts.org.uk/listing-category/materials/fabric/>

**IKEA Buy Back Service** <https://www.ikea.com/gb/en/customer-service/services/buy-back-pubc644de60>

**The Costume Directory: A Directory of Ethical Fabric Suppliers** <https://static1.squarespace.com/static/5d13cafa494bd600014bfc2f/t/5e18419c208b5e01f31368dc/1578648174862/The-Costume-Directory-Edition-2.pdf>

**John Lewis furniture rental** - <https://www.theguardian.com/business/2020/aug/15/never-knowingly-under-leased-john-lewis-moves-to-rent-out-its-furniture>

**Office Props** <https://www.cityharvest.org.uk> - reusing office stationary waste for set dressing inc bumf and files

**Circular Arts Network** <https://www.canarts.org.uk> - list waste products at the end of production

**Tree Card** <https://blog.ecosia.org/treecard-debitcard> - Planting Trees With Purchases

**Ethical Consumer** <https://www.ethicalconsumer.org>

**Etsy** <https://www.etsy.com>

**Ebay** <https://www.ebay.co.uk>

**Floor Protection** <https://www.locamats.com>

## Graphics

**Automated Systems Group** <https://www.copiersforfilms.co.uk>

**PrintReleaf** <https://printreleaf.com>

# Appendix 2: Suppliers

## Travel

Buy all future travel through Travel Perk's "GreenPerk" to offset 100% of our business travel carbon emissions and get real-time, actionable information on your company's carbon impact.

<https://www.travelperk.com/greenperk>

**Ecologi Carbon Offsetting** <https://ecologi.com>

**Mossy Carbon Offsetting** <https://mossy.earth>

## Construction

**Set Swap Cycle** <https://www.facebook.com/groups/731154647000790>

**Drésd** <http://www.dresd.co.uk>

**Scenery Salvage** <https://www.greenclover.com/recycle>

**The Ellen MacArthur Foundation Reuse** <https://www.ellenmacarthurfoundation.org/publications/reuse>

**Set Exchange** <https://set-exchange.com>

**Scenery Salvage** <https://propspropsprops.com/listing/scenery-salvage>

## Storage

**CAMA** <https://cama.co.uk> - Wrap storage company

**Drésd** <http://www.dresd.co.uk/what-we-do> - 'ethical' set clearance company.

**Set Aside** <https://www.setasidestorage.co.uk/carbon-footprint>

## Recycling and Hazardous Waste

**Scenery Salvage** <https://propspropsprops.com/listing/scenery-salvage>

**Terracycle** <https://www.terracycle.com/en-GB>

**Hazgreen** <https://www.hazgreen.co.uk>

## Office / Kitchen

**Big Green Smile** <https://www.biggreensmile.com> - Eco Kitchen supplies

**Who Gives A Crap** <https://uk.whogivesacrap.org> - Kitchen & Toilet paper / Tissues

**The Green Stationery Company** <https://www.greenstat.co.uk> - Stationery etc

**Ocean Saver** <https://www.ocean-saver.com> - Kitchen spray pods etc

**Cheeky Panda** <https://www.thecheekypanda.co.uk> - Kitchen & Toilet Roll / Tissues

# Appendix 2: Suppliers

**Reel Brands** <https://www.reelbrands.co.uk> - plastic free PPE visors cost 50p each

**Simply Stem** <https://www.simplystem.co.uk/products>

**Vegware** <https://www.vegware.com/uk/>

**Tony's chocolate** <https://tonyschocolonely.com/uk/en> - made without the use of modern slavery or child labour

**City Harvest** <https://www.cityharvest.org.uk> - collect waste food from production

**Loop** <https://www.loopstore.com> - kitchen supplies etc they collect packaging and resue it  
Olio app collect unused food for people who need it.

**Simply Stem Compostable packaging for the Film Industry** <https://www.simplystem.co.uk>

## Energy

**Renewable Diesel (HVO) – 90% Reduction in Carbon Emissons** <https://www.onbio.co.uk>

**Small Electric Gennies** <https://www.greenvoltage.co.uk>

## Donations on Wrap

**Eva Onsrud** <https://www.evaonsrud.com> - Homeless charity accepting blankets, bottles, umbrellas, heat pads etc.

**Retweed** <https://www.retweed.com> - Textile donation, charity training vulnerable women new skills. Recycling fabric into sellable items, raising money for the charity.

**Howard of Effingham School, Surrey** [cooper-burrows\\_h@thehoward.org](mailto:cooper-burrows_h@thehoward.org) (Hannah) - Textiles, art supplies, stationary

**'Play Resource Belfast'**. 'collect non-toxic waste materials from industry and redistribute them for free to over 2,500 groups and organisations working with children, young people and community groups all over Northern Ireland'. They have a van for collections.

**Play Resource** <http://playresource.org>

**City Harvest** <https://www.cityharvest.org.uk> - collect waste food from production

**Set Swap Cycle** <https://www.facebook.com/groups/731154647000790> - Production to Production Exchange of Materials

**Circular Arts Network** <https://www.canarts.org.uk> - List waste products at the end of production

**Re- Set Scenery** <https://www.re-setscecery.scot>

# Appendix 3: Letter part 1

This template has been curated by the BECTU Sustainability Sub Committee to send to productions via your HOD before a job begins. It outlines how your department intends to carry sustainability measures through the production ahead. This is only a template, make sure you read through this thoroughly and adapt it wisely.

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Dear (Insert production name),

Please find attached the 'Art Department Sustainability' document which is supported and advocated by this Art Department. This document was created by working members of the art department for guidance in developing sustainable practices within the industry. As an environmentally conscious team concerned with the effects of the climate and ecological crises, we will be using it as a template to develop our own sustainable practices across the duration of this production.

With this pledge, we also hope that we can encourage (insert production name) to consider similar solutions in their decision making. Understandably, there will be some difficulty being 100% sustainability focused with the services productions are required to offer. However, with this commitment, we offer a collaborative effort to create sustainable solutions together to face the issues of waste that our department is responsible for. We would like to help this production achieve a net zero impact.

We are striving to be a zero waste department and with that in mind, we would request your assistance with the following:

**Consumables** – In order to minimise waste, we guarantee to only order what is absolutely necessary and will prioritise the use of our own stores and kit. This will in turn reduce the cost on production. However, in order to encourage the use of reusable and less wasteful products, we may request production's support in the purchasing of certain items, of which the initial cost may be higher than that of the traditional throw away alternative. We do believe however that across the duration of the production this reuse of items will save on costs.

**Digital Paperwork** – We would ask production's collaboration to ensure all paperwork is digital rather than paper (where possible). We are happy to discuss templates, workflow and any other practicalities to be considered.

**Dietary Choices** – As a team we are aiming to reduce our meat consumption to reduce the associated environmental impacts. We would give our support to any discussions of reduced meat consumption on set, or a specified meat free day per week (as has already been trialled with great success on other jobs such as The Crown).

# Appendix 3: Letter part 2

Water Bottles / Reusable Coffee Cups – If reusable water bottles or coffee cups are to be supplied, please let us know so we can calculate the correct amount (many of our team already have them so do not need new ones).

Reusable Food Containers and Cutlery – We would ask production to consider supplying individuals with reusable items (for those who do not already own them). This will reduce waste and amount of disposables needed which will save money across the duration of the shoot.

Blue Shoe Covers – If Blue Shoe covers are required, we would request reusable alternatives which we will take responsibility to look after.

Recycling Bin – We would request a recycling bin for the truck and advise on best procedure for returning recyclables.

Crew Gifts – If crew gifts are to be provided, we would request the opportunity to opt out or reduce, in order to minimise waste if not needed. Additionally we would kindly request that production consider sustainable/ethically produced gifts such as our BECTU initiated carbon offsetting crew gift scheme in partnership with Ecologi. Please ask for more information on this.

Carbon Calculation - We actively encourage productions to take part in carbon calculation, such as through the BAFTA Albert certification.

It is our belief that a beneficial change can happen if we unite as crew. To do this, we must challenge out-dated and wasteful practices to encourage sustainability throughout this industry. Over the duration of this production, it is our hope that we can all work together to effectively minimise our impact on the environment. We can provide assistance in sourcing these items so please don't hesitate to ask.

We look forward to discussing this collaboration further and are eager to develop this sustainable relationship together.

Many thanks,

(Team Names)

# Appendix 4: Links part 1

## More useful links

**Agora for Sustainable Film** [https://www.facebook.com/groups/614550345629335/?multi\\_permaLinks=1013105929107106%2C1013044432446589%2C1013018889115810%2C1012243059193393%2C1011079135976452&notif\\_id=1592935856748023&notif\\_t=group\\_activity](https://www.facebook.com/groups/614550345629335/?multi_permaLinks=1013105929107106%2C1013044432446589%2C1013018889115810%2C1012243059193393%2C1011079135976452&notif_id=1592935856748023&notif_t=group_activity)

**Climate Solutions** <https://drawdown.org>

**Future Earth** <https://members.futureearth.org>

**Future Free Plastic** <https://www.breakfreefromplastic.org>

**Bank checker** <https://banktrack.org>

**Institute for Ecological Civilization** <https://ecociv.org>

**National Nature Service** <https://www.nationalnatureservice.org/sign-the-declaration>

**52 Climate Actions** <https://www.52climateactions.com/reduce-your-carbon-footprint/full>

**Carbon Literacy Project** <https://carbonliteracy.com/top-10-low-carbon-self-isolation-activities>

**Fashion Revolution** <https://www.fashionrevolution.org/about>

**Energy Saving Trust** <https://energysavingtrust.org.uk>

**Project Drawdown** <https://www.drawdown.org>

**Woodland Trust** <https://www.woodlandtrust.org.uk>

**Trade Unions in the UK: Engagement with Climate Change** [https://www.cacctu.org.uk/sites/data/files/sites/data/files/Docs/tu\\_in\\_the\\_uk\\_and\\_climate\\_change.pdf#page12](https://www.cacctu.org.uk/sites/data/files/sites/data/files/Docs/tu_in_the_uk_and_climate_change.pdf#page12)

**Sky Zero** <https://www.skygroup.sky/sky-zero>

**Green Production Guide** <https://www.greenproductionguide.com>

**The European Producers Club Green Charter** <https://www.europeanproducersclub.org/epc-green-charter>

**WRAP** <https://wrap.org.uk/#>

## Climate Change Explained

<https://countdown.ted.com/get-informed>

<https://www.climateemergency.uk/blog/what-can-i-do-about-climate-change/>

**Carbon Brief – how climate change affects extreme weather** <https://www.carbonbrief.org/mapped-how-climate-change-affects-extreme-weather-around-the-world>

**The Intergovernmental Panel on Climate Change (IPCC) – up to date scientific reports on the impacts of climate change** <https://www.ipcc.ch/sr15>

**BBC ‘What is climate change?’ – A really simple guide** <https://www.bbc.co.uk/news/science-environment-24021772>



# Appendix 4: Links part 1

## Documentaries

The Story of Plastics <https://www.storyofplastic.org>

Before the Flood (2016 Disney Plus / National Geographic) <https://www.beforetheflood.com>

Climate Change - The Facts (2019 BBC IPlayer)

Panorama Climate Change - What Can We Do? (2019 BBC IPlayer)

An Inconvenient Truth (2006)

An Inconvenient Sequel: Truth to Power (2017)

Trashed (2013 Amazon)

The Game Changers (2018 Netflix)

War on Plastic with Hugh and Anita (2019 BBC)

Chasing Ice (2012)

Our Planet (BBC)

2040 (2019)

7 Worlds 1 Planet (BBC 2019)

How to Change The World (2015)

The True Cost (2015)

'Meat: A Threat to Our Planet?' (BBC 2019)

David Attenborough: A Life On Our Planet (2020)

## Videos

**Greta Thunberg and George Monbiot make short film on the climate crisis:** <https://www.youtube.com/watch?v=-Q0xUXo2zEY>

**Re-thinking Progress: The Circular Economy:** <https://vimeo.com/305961325>

## Podcasts

**Screening Green** <https://podcasts.apple.com/gb/podcast/screening-green/id1515078756>

**So Hot Right Now** <https://podcasts.apple.com/za/podcast/so-hot-right-now/id1513199677>

**Drilled** <https://www.criticalfrequency.org/drilled>

**Force of Nature** <https://www.forceofnature.xyz/podcast>

**Costing the Earth** <https://podcasts.apple.com/gb/podcast/costing-the-earth/id354108693>

# Appendix 4: Links part 1

**Outrage + Optimism** <https://globaloptimism.com/podcast>

8 x 15 minute podcasts explaining climate change from the BBC <https://www.bbc.co.uk/programmes/m0001t9x/episodes/downloads>

## Panels

**Net Zero and the Economics of Broadcasting- Does it Add Up?** [https://www.youtube.com/watch?v=\\_xndNYqUVGY&t=7s](https://www.youtube.com/watch?v=_xndNYqUVGY&t=7s)

## Books

**Feral**, by George Monbiot

**First As Tragedy, Then As Farce** - by Slavoj Zizek

**Frugal Innovation: How to do better with less** - by Jaideep Prabhu

**Give and Take: Why Helping Others Drives Our Success** - by Adam Grant

**Heat** - by George Monbiot

**How Bad are Bananas** and **There is no Planet B** – both by Mike Berners Lee

**Share Economy: Conquering Stagflation** - by Martin L Weitzman

**The Frugal Innovator: Creating Change on a Shoestring Budget** - by Charles Leadbetter.

**The Future We Choose** - by Christiana Figueres and Tom Rivett-Carnac

**The Power of Habit** - by Charles Duhigg

**The Story of Stuff: How Our Obsession with Stuff Is Trashing the Planet, Our Communities, and Our Health-and a Vision for Change** - by Annie Leonard.

**The Sustainability Advantage: Seven Business Case** - by Bob Willard

**The Uninhabitable Earth: A Story of the Future** - by David Wallace Wells

**This Changes Everything: Capitalism vs The Climate** - by Naomi Klein

**We-Think: Mass innovation, not mass production** - by Charles Leadbeater

**What Has Nature Ever Done For Us?: How Money Really Does Grow On Trees** - by Tony Juniper

**What's Mine Is Yours: The Rise of Collaborative Consumption, Rachel Botsman; Roo Rogers** - by Gillian Blake

**What Nature Does For Britain** - by Tony Juniper

# Appendix 4: Links part 1

## Collectives

**Extinction Rebellion** <https://rebellion.earth>

**The Earth Issue** <https://www.theearthissue.com/about>

**CUT IT** <https://www.cutit.org.uk>

## Personal Carbon Tracking

**Carbon Footprint** <https://www.carbonfootprint.com> / <https://www.footprint.wwf.org.uk>

**WWF Footprint Calculator** <https://footprint.wwf.org.uk/#/>

# Appendix 4: Links part 1

## Articles

### Just 100 companies responsible for 71% of global emissions, study says

<https://www.theguardian.com/sustainable-business/2017/jul/10/100-fossil-fuel-companies-investors-responsible-71-global-emissions-cdp-study-climate-change>

### How does eating meat harm the environment?

<https://www.peta.org/about-peta/faq/how-does-eating-meat-harm-the-environment>

### How much water is needed to produce food and how much do we waste?

<https://www.theguardian.com/news/datablog/2013/jan/10/how-much-water-food-production-waste>

### BFI study calls on film industry to urgently reduce emissions

[https://www.theguardian.com/film/2020/sep/02/bfi-study-calls-on-film-industry-to-urgently-reduce-emissions?utm\\_term=b4c436ce08cdfa8ecbe8c78e5d9913c5&utm\\_campaign=GuardianTodayUK&utm\\_source=esp&utm\\_medium=Email&CMP=GTUK\\_email](https://www.theguardian.com/film/2020/sep/02/bfi-study-calls-on-film-industry-to-urgently-reduce-emissions?utm_term=b4c436ce08cdfa8ecbe8c78e5d9913c5&utm_campaign=GuardianTodayUK&utm_source=esp&utm_medium=Email&CMP=GTUK_email)

### Ecopsychology: How Immersion in Nature Benefits Your Health

<https://e360.yale.edu/features/ecopsychology-how-immersion-in-nature-benefits-your-health>

### Climate change: New rules could spell end of 'throwaway culture'

[https://www.bbc.co.uk/news/science-environment-51825089?fbclid=IwAR36p5uxsc3Li7q3u7uMBBI-4iF0ooqX\\_5R\\_IM4Vz-1PiBdSw5\\_I9jKkAiw](https://www.bbc.co.uk/news/science-environment-51825089?fbclid=IwAR36p5uxsc3Li7q3u7uMBBI-4iF0ooqX_5R_IM4Vz-1PiBdSw5_I9jKkAiw)

### The show must go green <https://www.goethe.de/en/kul/flm/21898140.html>

### Nature-led coronavirus recovery could create \$10tn a year, says WEF

[https://www.theguardian.com/world/2020/jul/15/nature-led-coronavirus-recovery-could-create-10tn-a-year-says-wef?CMP=Share\\_AndroidApp\\_Slack](https://www.theguardian.com/world/2020/jul/15/nature-led-coronavirus-recovery-could-create-10tn-a-year-says-wef?CMP=Share_AndroidApp_Slack)

### ScreenDaily Talks: Indie “freefall” can spur post-Covid sustainability drive

[https://www.screendaily.com/news/screendaily-talks-indie-film-freefall-sustainability-can-be-improved-post-covid/5151089.article?fbclid=IwAR3AKj\\_9P-T6arpoDmsK27xMurHlhVNHXL4S-HSDG\\_sdTKrKt7orjQUHZ5M](https://www.screendaily.com/news/screendaily-talks-indie-film-freefall-sustainability-can-be-improved-post-covid/5151089.article?fbclid=IwAR3AKj_9P-T6arpoDmsK27xMurHlhVNHXL4S-HSDG_sdTKrKt7orjQUHZ5M)

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