Did you know?

ICAEW's Continuing Professional Development (CPD) Regulations have changed. Members are now required to do a minimum number of CPD hours per year.

This webinar could contribute to up to 1 hour of verifiable CPD, so long as you can demonstrate that the content is relevant to your role.

Charities, tech and the climate

Alice Kershaw, Head of Digital Transformation

March 2024

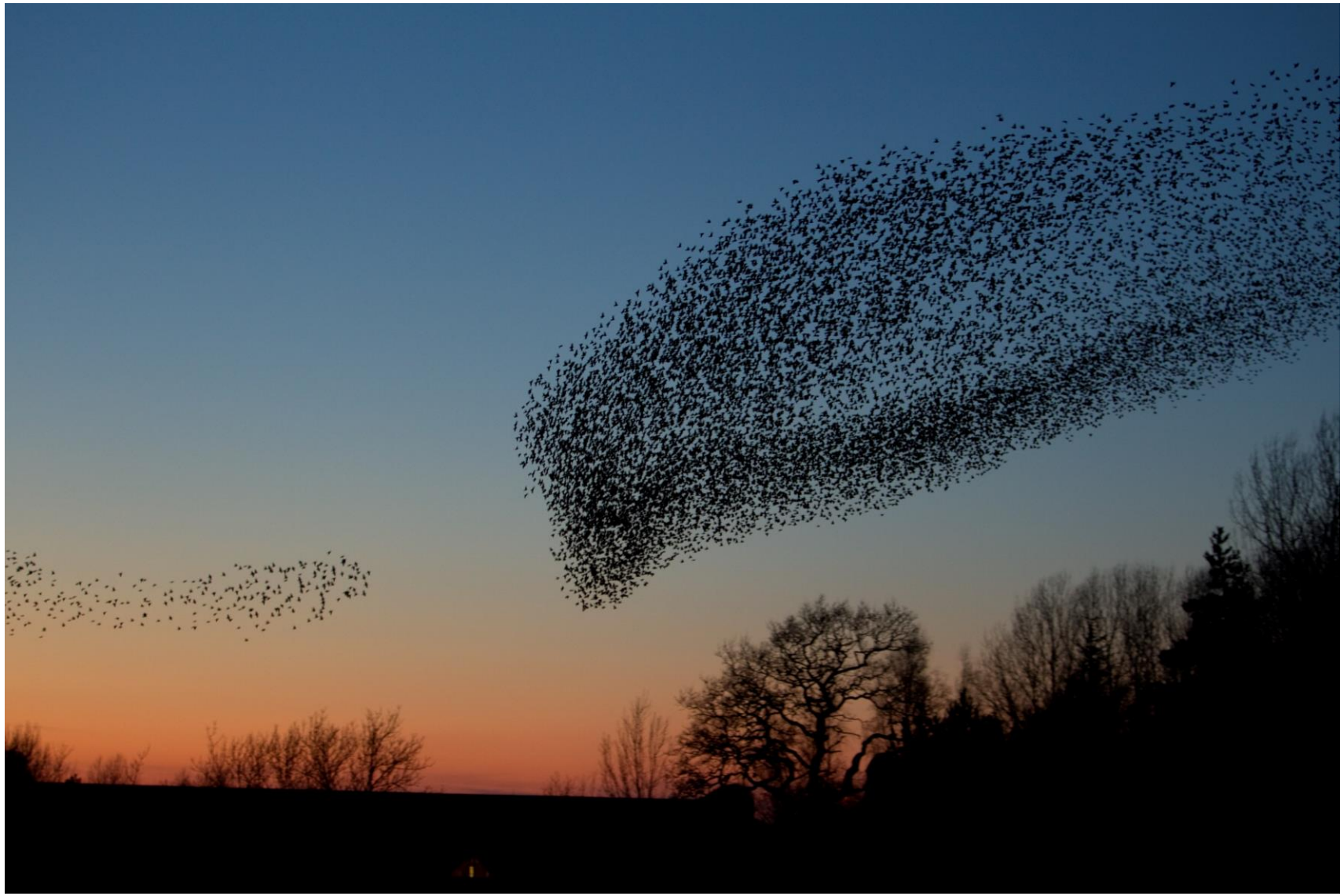
The Wildlife Trusts

Who am I?

What is your primary relationship with charities?

- Charity employee
- Charity adviser/ auditor/ examiner
- Charity trustee/ treasurer
- Other volunteer
- Other

What is The Wildlife Trusts?



What is Digital Transformation then?

‘Applying the culture, processes, business models and technologies of the internet era to respond to people’s raised expectations’

- Tom Loosemore

The Wildlife Trusts

Digital isn’t about ‘using computers’ or getting new tools.

It’s about using modern ways of working to help people to do things that matter to them.

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Our Strategic Goals

1. Nature is in recovery with abundant, diverse wildlife and natural processes creating wilder land and seascapes where people and nature thrive.
2. People are taking meaningful action for nature and the climate, resulting in better decision making for the environment at both the local level and across the four nations of the UK.
3. Nature is playing a central and valued role in helping to address local and global problems.

Our Strategic Transformations

1. Supporting and developing Wildlife Trusts as strong and effective independent actors.
2. Working effectively as a distributed network and collective movement.
3. Inspiring community organising and mobilising, especially amongst young people.
4. Undergoing a 'root and branch' digital transformation.
5. Delivering a step-change in the scale and diversity of funding for nature's recovery.

Our Enabling Priorities

1. Getting our own house in order.
2. Ensuring our nature reserves and land assets are the foundation for nature's recovery.
3. Develop clear and consistent evidence-based policies.
4. Invest in a high-skilled and diverse staff and volunteer network, and build a movement-wide learning culture.
5. Speak with a bold and confident voice, further increasing our impact and influence.

The Wildlife Trusts

Embrace a digital culture

Transformation 4
Undergoing a 'root and branch' digital transformation.

The rapid advancement of digital technologies in recent years presents unprecedented opportunities to increase the impact of our work, to adopt innovative approaches to new and existing challenges, and to broaden and enhance our engagement. However, we also recognise that these advancements bring new challenges, threats, and vulnerabilities that will need to be addressed in the coming decade.

We are committed to trialling and experimenting with new and innovative technologies, ensuring that we use digital approaches to maximise our impacts, from intelligent and strategic use of geospatial information and ecological data through to greater engagement with new audiences, and promoting knowledge sharing and collaboration across our movement.

We will promote a digital culture to transform our existing systems and infrastructure, and increase the capability of our movement to store and handle data.

We will be proactive in horizon scanning for opportunities in digital innovation, as well as emerging risks in areas such as data ethics, access, protection and rights, and information security. We will provide our staff with the training and resources to develop their digital skills and capability, building our movement's resilience to a changing external digital landscape.

Our transformative action will be to embrace and integrate the necessary culture, structures, and technology to support a root and branch digital transformation. This will include significant investment in training to develop the digital skills and capabilities of our members, as well as in systems and infrastructure, building our capacity to store and handle data.

SIGNALS OF SUCCESS

More aware
All Wildlife Trusts understand the value and impact of effective digital infrastructure.

More informed
Insights and analysis from digital technologies and innovations are enabling and streamlining strategic and operational decision making.

More skilled
Wildlife Trust staff and volunteers have significantly enhanced their skills and capacities in digital solutions.

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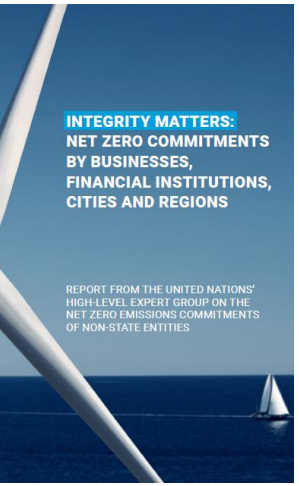
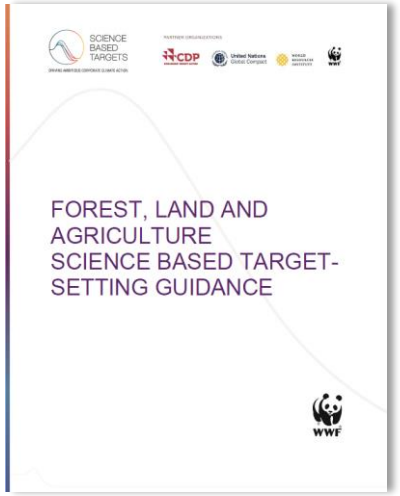
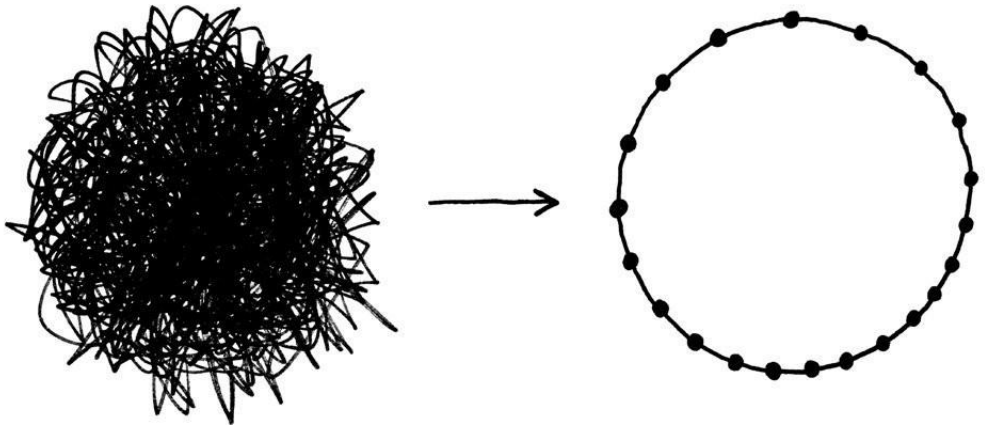
It is a journey and we are not there yet

Understanding of environmental sustainability

e.g. ‘net zero’/mitigation best practice

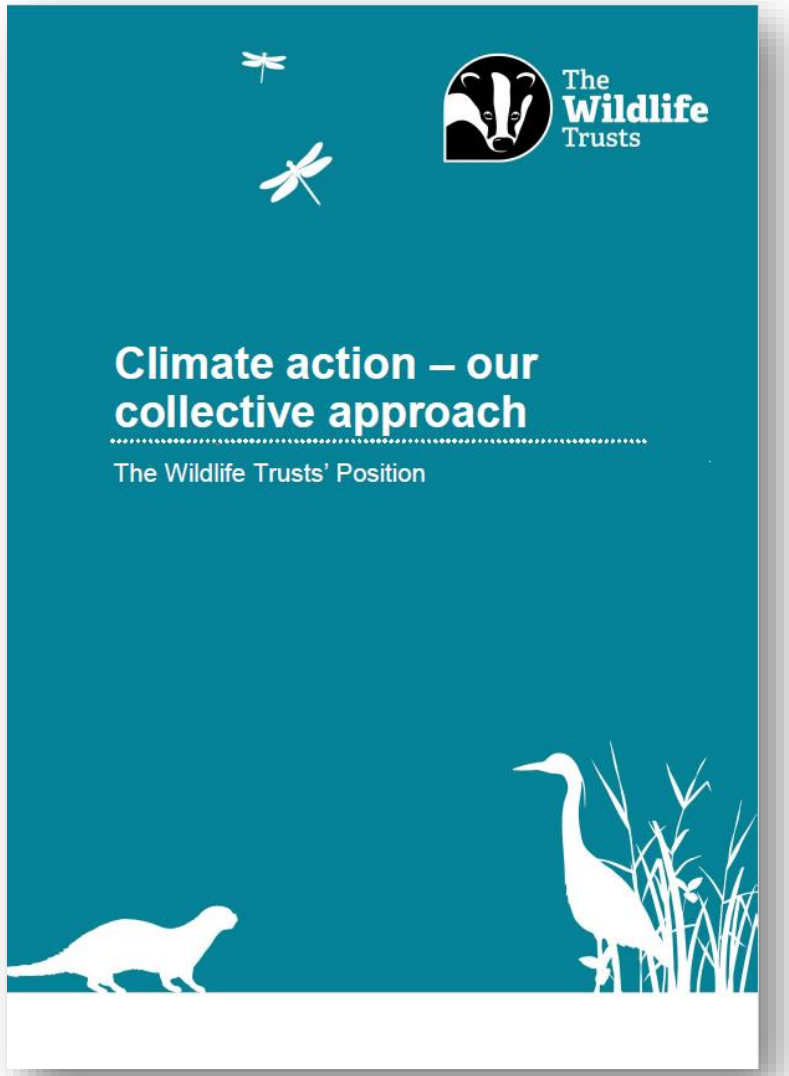






STREAMLINED ENERGY & CARBON REPORTING

Action on climate change mitigation and adaptation



[The Wildlife Trusts Position on Climate Change]

[The Wildlife Trusts' GHG Inventory FY2021-2022]

[The Wildlife Trusts' (2022) Changing Nature]

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P1

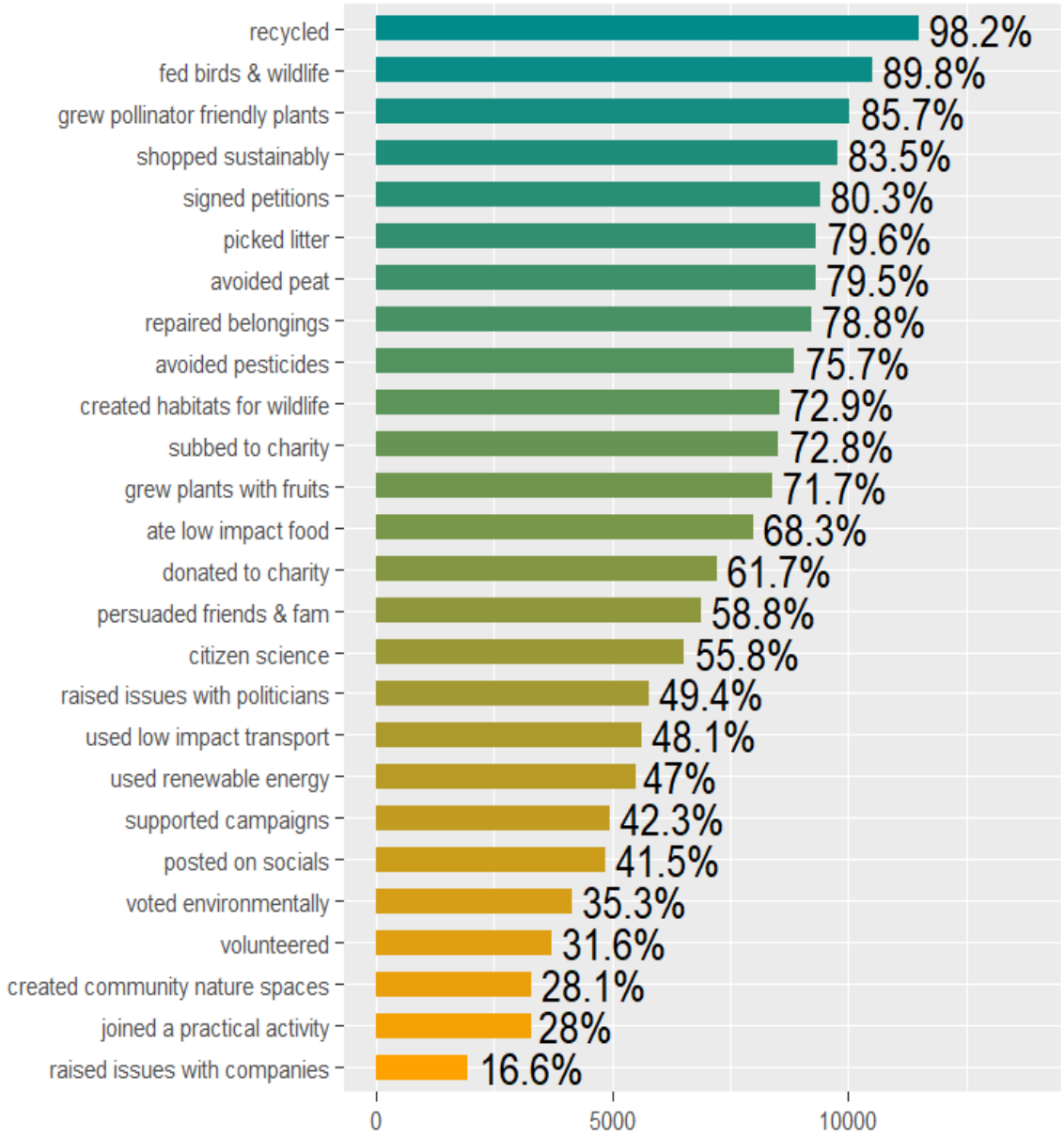
Getting our own house in order.

Generating renewable energy
And storing it on site, reducing carbon footprint and costs

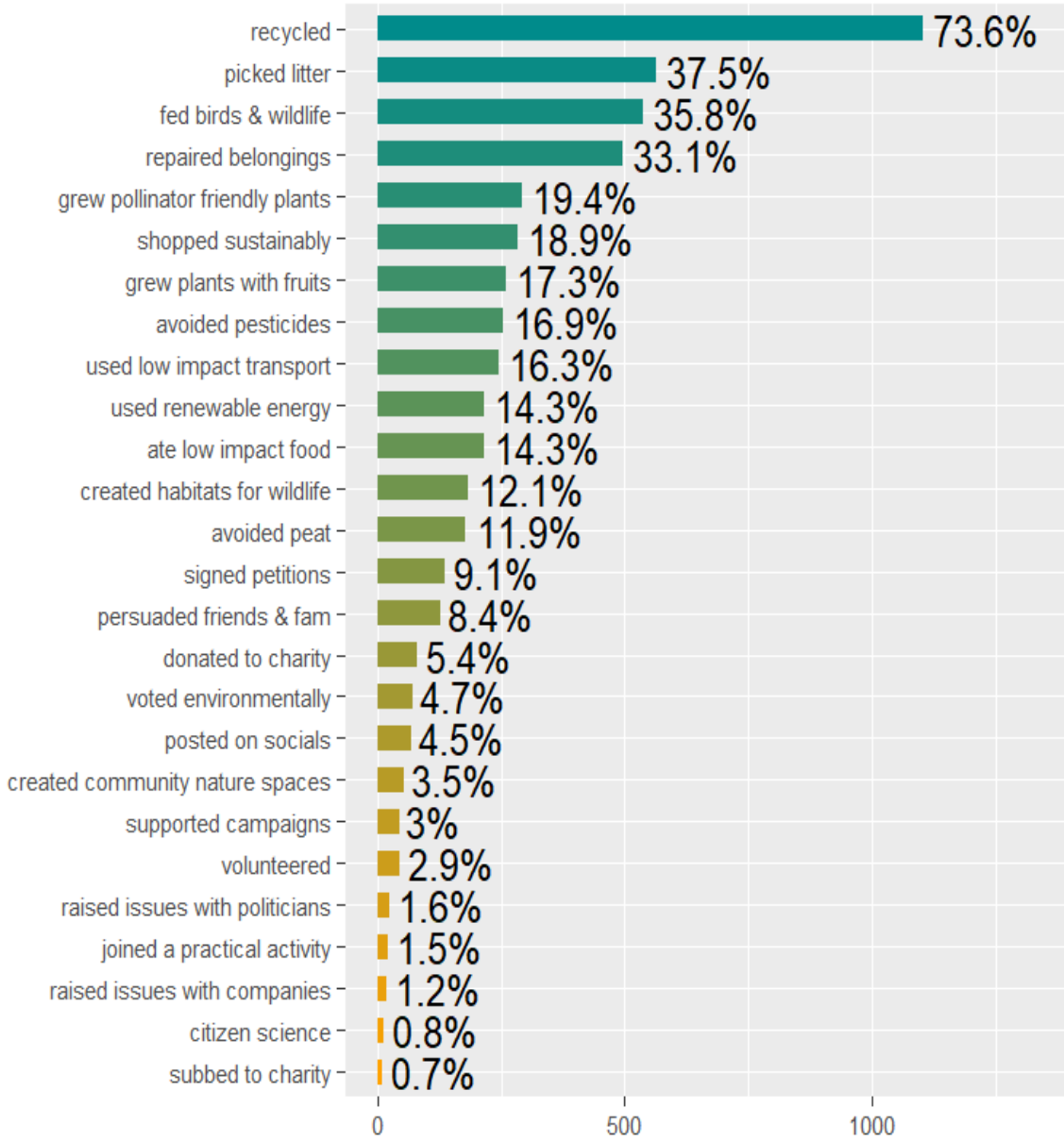
Holistic

© Rachel Sheriff

Top actions: members & supporters



Top actions: non-eNGO supporting public



Getting the basics right

- Where can technology be helpful?

- Recording
- Reducing
- Replacing

Also getting the basics right

Fundamentals

Every Wildlife Trust:

- has an active Carbon Reduction Strategy and is implementing a comprehensive programme of carbon reduction activities towards this;
- calculates its GHG emissions annually to monitor and evaluate their carbon reduction progress and inform future action; and
- has a carbon reduction champion responsible for driving forward this action for their Wildlife Trust.

https://www.wildlifetrusts.org/sites/default/files/2022-07/The%20Wildlife%20Trusts%20Greenhouse%20Gas%20Inventory%20FY%202020-21.pdf

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Remove and restructure

Delete things that are not essential and make the rest leaner

Review media

Images & videos usually contribute the most to your page file size

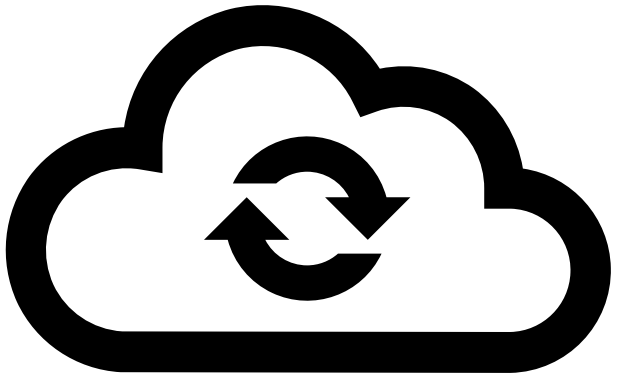
Move to a green host

Reduce your site's carbon emissions by approx 10%

Cache things

Implement database and browser caching

https://climateaction.tech/actions/reduce-the-carbon-emissions-of-your-website/



Cloud computing, including data centres are rapidly expanding, and they will make up a much greater slice of ICT energy demand by 2030 – which is forecast to grow to 15-30% of electricity consumption in some countries by 2030.

Resources and waste

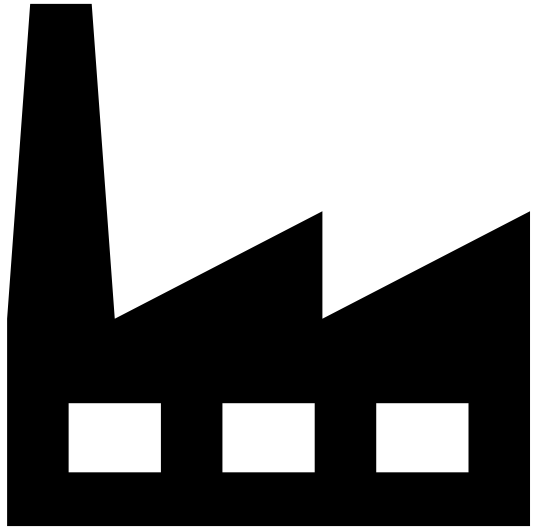
Manufacture of devices has significant impacts in terms of mining minerals and transportation.

Disposal of devices can result in chemicals leaking out of landfill.

Fifty million tons of electronic waste are generated every year.

Replace devices less often.

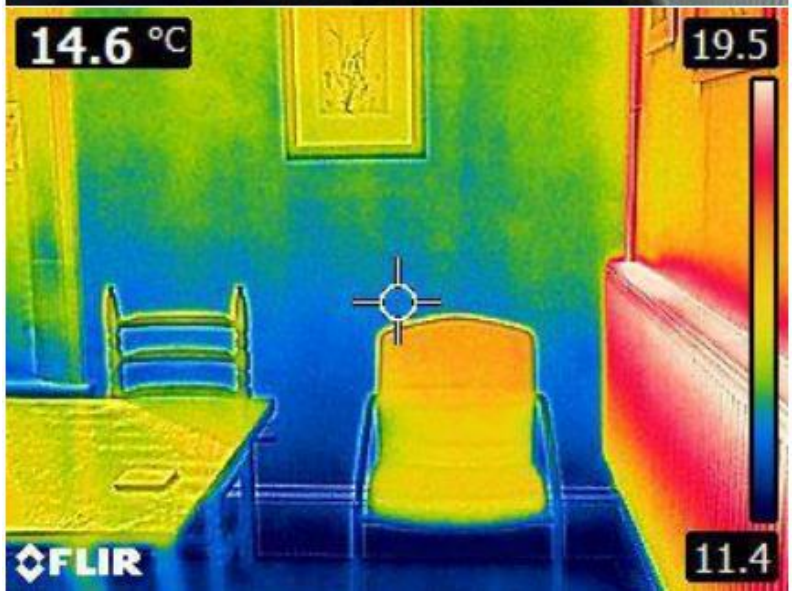
Dispose/ recycle them e.g. at Curry's



https://www.weforum.org/agenda/2021/12/digital-carbon-footprint-how-to-lower-electronics

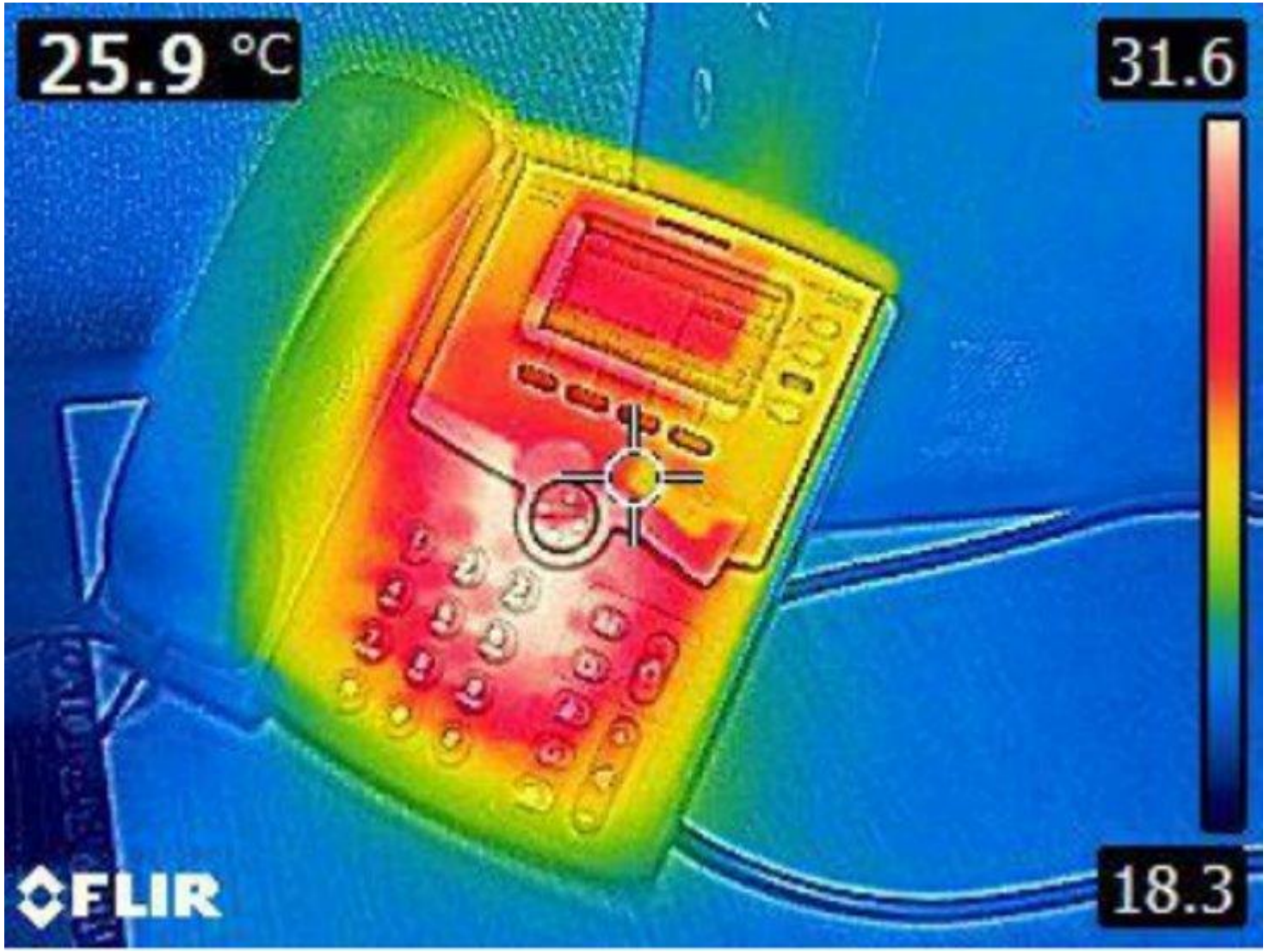
Reducing energy demand

Uninsulated pipes



Outside wall of older section of office

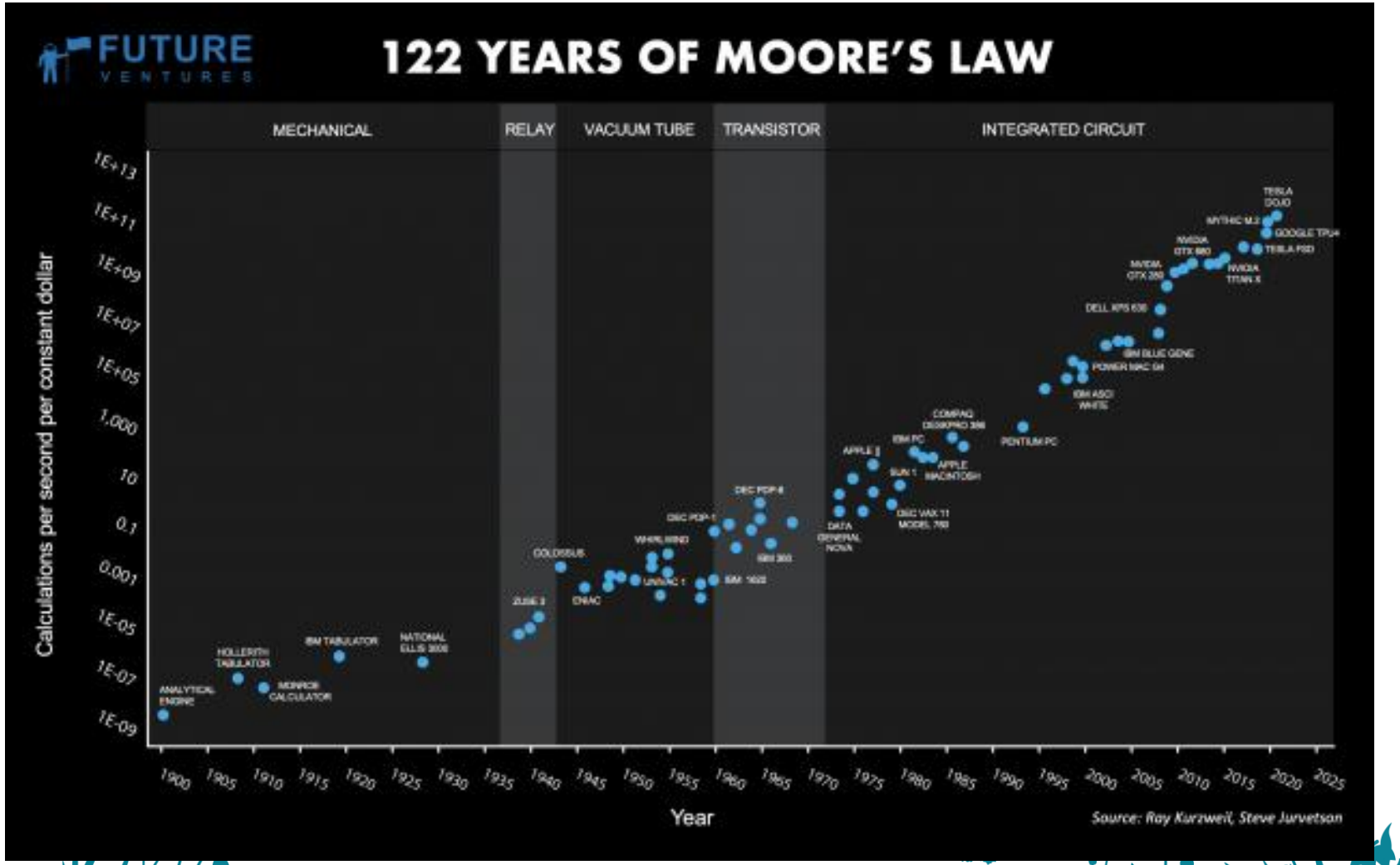
Reducing energy demand



Don’t just buy an app

© Tay Aziz

Carbon usage



https://news.climate.columbia.edu/2023/06/09/ais-growing-carbon-footprint/

Finding partners

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Pre-Energy Strategy Support | 2023

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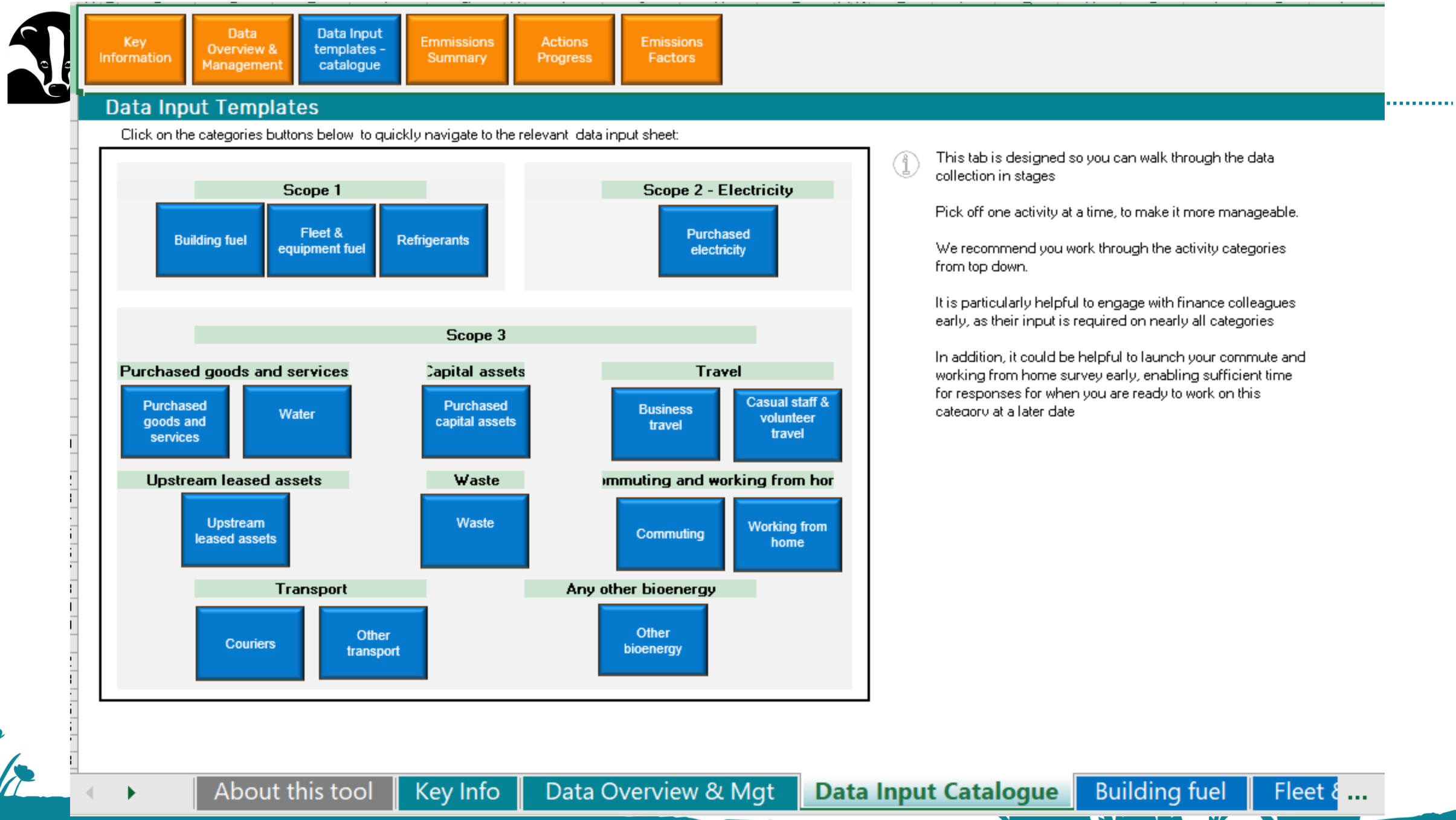
Key Information
Data Overview & Management
Data Input templates - catalogue
Emmissions Summary
Actions Progress
Emissions Factors
Data Input Templates
Click on the categories buttons below to quickly navigate to the relevant data input sheet:
Scope 1
Building fuel
Fleet & equipment fuel
Refrigerants
Scope 2 - Electricity
Purchased electricity
Scope 3
Purchased goods and services
Purchased goods and services
Water
Capital assets
Purchased capital assets
Travel
Business travel
Casual staff & volunteer travel
Upstream leased assets
Upstream leased assets
Waste
Waste
mmuting and working from hor
Commuting
Working from home
Transport
Couriers
Other transport
Any other bioenergy
Other bioenergy
This tab is designed so you can walk through the data collection in stages
Pick off one activity at a time, to make it more manageable.
We recommend you work through the activity categories from top down.
It is particularly helpful to engage with finance colleagues early, as their input is required on nearly all categories
In addition, it could be helpful to launch your commute and working from home survey early, enabling sufficient time for responses for when you are ready to work on this category at a later date
About this tool
Key Info
Data Overview & Mgt
Data Input Catalogue
Building fuel
Fleet &
...

The Wildlife Trusts

Overview

Trust: All

Name of Site: All

Projections

Trust Information

Annual Energy Trust Consumption [kWh]

73,121
Annual electricity generation [kWh]

4%
% of generation over consumption (electricity)

86,361
Annual heat generation [kWh]

43%
% of generation over consumption (heat)

1,598
Employees

57,639
Land Area [ha]

473
Number of vehicles in fleet

3%
Total number of plug-in vehicles as % of fleet

Electricity [kWh]

Heat [kWh]

Most common categories

Most common planned technology in the next 3 years	EV chargers
Most common type of existing storage	Battery Storage, Electric Vehicle chargers
Most common type of existing electricity generation	Nothing
Most common type of existing heat generation	Air Source Heat Pump

Site Information

Annual Energy Site Consumption [kWh]

69%
Site share consumption (electricity)

54%
Site share consumption (gas)

5%
Site share consumption (other)

Number of measures per site in total

13
Total number of plug-in vehicles

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The Wildlife Trusts

Overview

Trust: Multiple selections

Name of Site: All

Projections

Trust Information

Annual Energy Trust Consumption [kWh]

1,000
Annual electricity generation [kWh]

0%
% of generation over consumption (electricity)

0
Annual heat generation [kWh]

0%
% of generation over consumption (heat)

150
Employees

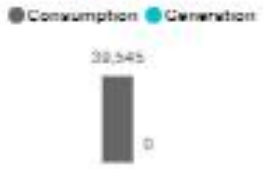
2,600
Land Area [ha]

20
Number of vehicles in fleet

0%
Total number of plug-in vehicles as % of fleet

Electricity [kWh]

Heat [kWh]

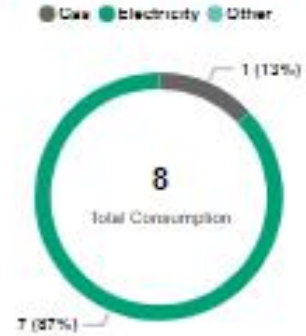


Most common categories

the next 3 years	
Most common type of existing storage	Electric Vehicle chargers
Most common type of existing electricity generation	Solar PV, incl. rooftop and groundmount
Most common type of existing heat generation	Air Source Heat Pump, Ground Source Heat Pump, Water Source Heat Pump

Site Information

Annual Energy Site Consumption [kWh]



0%
Site share consumption (electricity)

0%
Site share consumption (gas)

0%
Site share consumption (other)

Number of measures per site in total

0
Total number of plug-in vehicles

SIEMENS

Projections

Trust

All

Overview

Energy efficiency for electricity consumption

100%

Energy efficiency for heat consumption

100%

Cars converted to EVs

0%

Electricity generation [kWh/year]

0

Heat generation [kWh/year]

0

Electricity tariff [p/kWh]

30

Gas tariff [p/kWh]

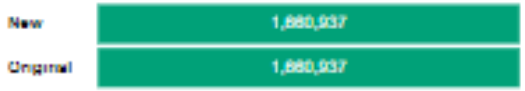
10

Petrol/Diesel tariff [p/L]

180

New Annual Electricity Consumption [kWh]

1,660,937



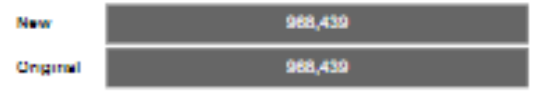
New Estimated Annual Electricity Cost	Potential Annual Electricity Savings
£498,281	£0

CO2 emissions in 2030 for electricity [kg]

81,386

New Annual Heat Consumption [kWh]

968,439



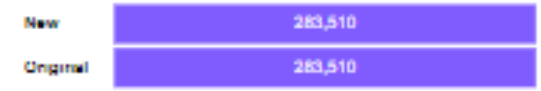
New Estimated Annual Heat Cost	Potential Annual Heat Savings
£111,370	£0

CO2 emissions in 2030 for heat [kg]

106,568

New Annual Petrol/Diesel Consumption [L]

283,510



New Estimated Annual Petrol/Diesel Cost	Potential Annual Petrol/Diesel Savings
£453,616	£0

CO2 emissions in 2030 for petrol/diesel [kg]

685,400

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Access barriers are preventing digital growth

- Cost and access to digital expertise are significant barriers

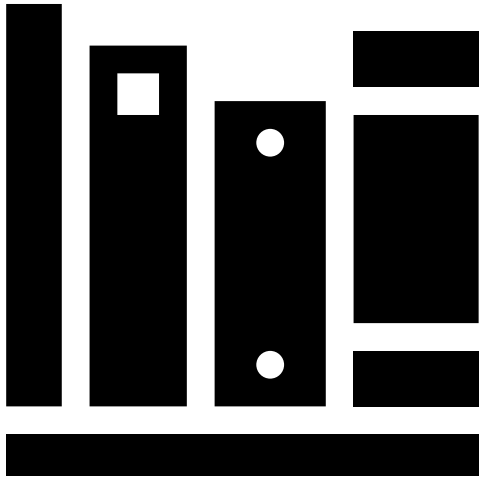
↓

- Limiting development

↓

- Limiting impact

Digital technologies can play a central role in helping us to reduce global greenhouse emissions globally.



They have already helped us to cut down on tonnes of physical resources.

They can require a lot of energy and the carbon emissions produced from manufacturing, powering, and cooling computers, smartphones, and data centres can add up.

Behaviours

© Tay Aziz

Welcome to the Nextdoor Nature Hub

This website will help you to help nature in your neighbourhood.

Fancy making your community a little bit greener, and that little bit wilder? You're in the right place! We're in a nature crisis. This means that without our help, we will lose more and more wildlife – animals, plants, birds and insects. So this website offers you advice on how to help!

If you are looking for practical tips about how you can help nature, you will find everything on The Wildlife Trusts website. Go to this link to find out how to do things like build a birdbox, dig a pond, sow wildflowers and lots more.

On this website, you will find ***guides*** and ***stories***.

Guides are full of simple, easy-to-understand information in words and videos to help you to take action for nature. These guides tell you how to start a group, how to find funding, everything you need to know about insurance, banks, and more!

Guide highlights

Gift Aid - Can You Claim It?

Setting up a Basic Community Group

Story highlights

Explore guides by topic

Community Groups - Admin and Information

Bank Accounts For Groups
Businesses - How They Can Help You (and how you can help them)
Faith Groups and Lottery Funding
Finding Funding
Gift Aid - Can You Claim It?
How Community Groups Can Go Peat-Free - and Why it's Important
How to Apply for Funding
How to Comment on Planning Developments
Insurance for Local Groups
Reaching People in Your Community
Risk Assessments
Running a Group Session: How to Get Started
Setting up a Basic Community Group
Should our Group be Constituted?
The Importance of Local Wildlife
Things You Can Do About Climate Change

Reducing our emissions

Alongside all of this












The Wildlife Trusts

“Action is better than no action.

Something is better than nothing”