

One Planet Cardiff

A response to the Climate Emergency



**One
Planet
Cardiff**

Our vision for a
**Carbon Neutral
City** by 2030



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Introduction



“Today Cardiff is a Three Planet City”

“If everyone in the world consumed natural resources and generated carbon dioxide at the rate we do in Cardiff, we would need three planets to support us. This is not sustainable or equitable to those we share the planet with.”

If we do nothing, the threat becomes ever more critical:

- **Rising sea levels:** with Cardiff at severe risk
- **Extreme Weather:** droughts/heatwaves/floods and increased service area pressures
- **Biodiversity:** 1 million species at risk of extinction – accelerating the problem
- **Food:** reduced agricultural productivity and higher local food costs
- **Health:** increased heat and ozone related mortality and greater care costs
- **Mass immigration:** where resources become unviable elsewhere

The Council has recognised this challenge and declared a **Climate Emergency**.



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Opportunities

Success could bring:

- A better quality of life
- A cleaner, smarter city
- A more competitive place to invest and locate
- Increased economic activity around low carbon products and services
- Access to innovation, green finance, grant funding, tax incentives etc.
- And a **Green Covid Recovery**



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Draft Consultation

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Vision: Council AND City



1. Cardiff City Council Net Zero Carbon by 2030

WG target 2030

2. Cardiff Net Zero Carbon City by 2030 (in partnership)

GB Target 2050

*“By **pro-actively** addressing the factors that contribute to the Climate Emergency we can build a **cleaner, healthier and more equitable** City with a **higher quality of life** and a **thriving more resilient economy.**”*



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Strategy Structure



- **Intro** – why we need to act and the scale of the challenge
- **Current position** – progress to date and immediate planned actions
- **Green Recovery** – areas of focus for joint Covid and Climate actions (in dialogue with Econ Devt and the recovery strategy)
- **Governance and Partnership** – who we can influence and work with
- **Measuring the challenge** – what we know, and what we need to do to develop better baseline info and impact modelling
- **Detailed themes** – project options for Carbon Neutral Council and Carbon Neutral City



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Key Action Areas

- Progress to date and future proposals for each



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Governance

- Climate impact as a prioritizing factor?
- Policy Integration and maximising co-benefits

Behaviour Change

- Internal Carbon literacy training and Comms
- Citizen, community and youth engagement

Procurement

- Smarter Specification?
- Decisions can have a huge carbon impact

Digital

- Underpins our ability to deliver, and to measure and manage our carbon impact

Collaboration

- We can't do this alone.

Regulation and Policy

- Fit for purpose in the context of the climate change emergency?

Finance

- "Whole of life" cost analysis?
- Invest to save vs emergency measures?

Economic Development

- New products / New skills; Currently huge skills gap
- New business for the region; growing the local economy

Cross Cutting Themes



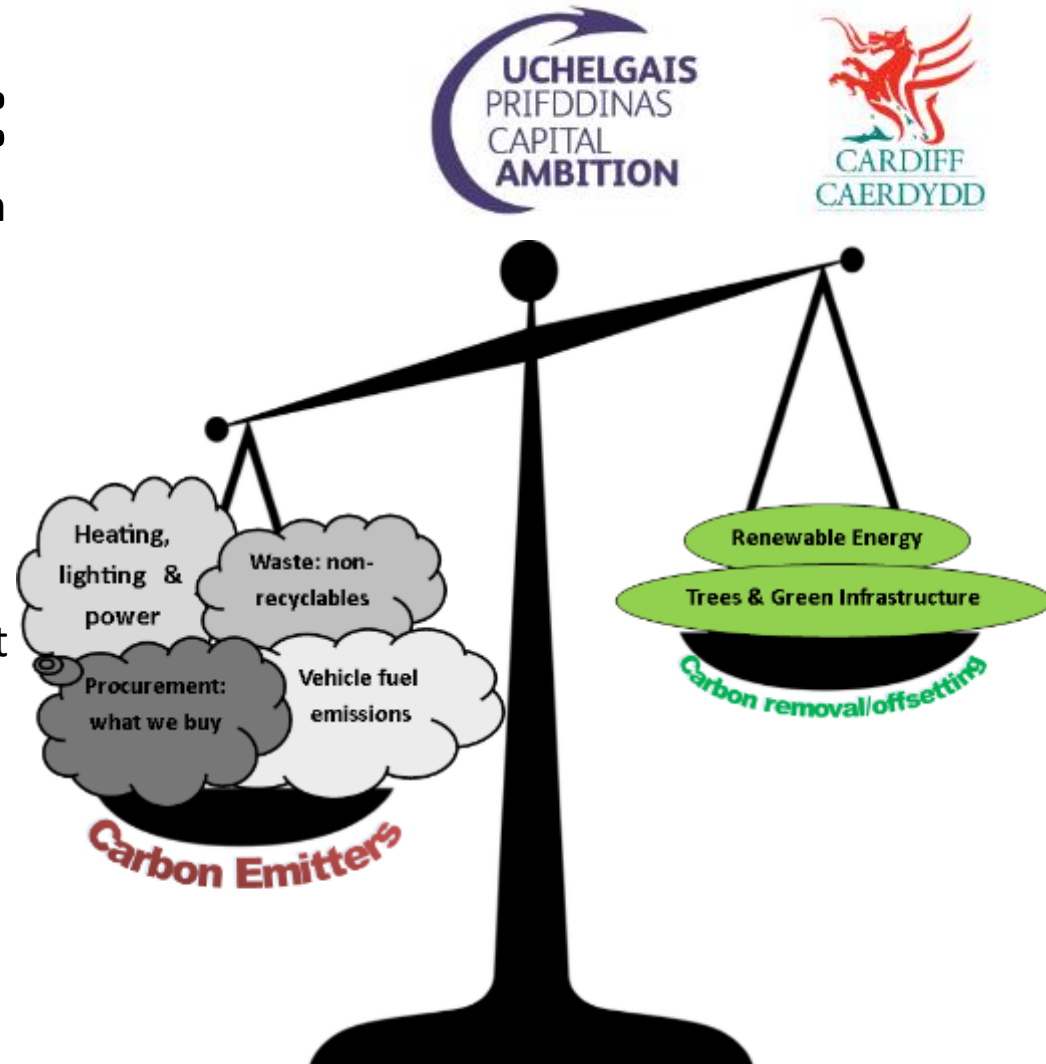
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Methodology:

How we measure Net Zero Carbon

Net zero carbon:

the **balancing** of carbon emissions against carbon removals and/or carbon offsetting with the net result being zero (also referred to as carbon neutral).



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Carbon Neutral COUNCIL

Benchmarking and Monitoring

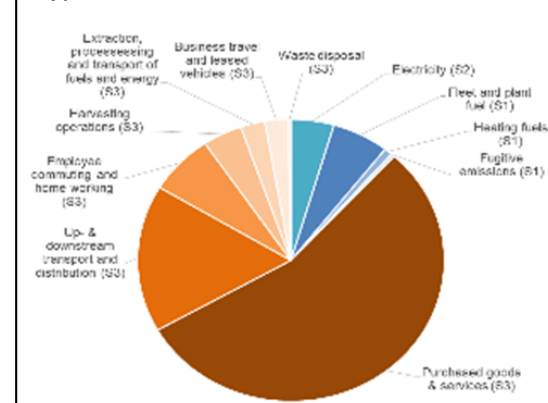


Scope 1	Scope 2	Scope 3
Direct Emissions Fuel combustion on site (heating) Emissions from owned vehicle fleet	Indirect Emissions Power purchased and used by the organisation (with emissions at the point of generation)	“Caused” Emissions <ul style="list-style-type: none"> Procurement, purchased goods, capital goods Business travel, “Grey Fleet” and staff commuting Directly generated waste Direct Sequestration <ul style="list-style-type: none"> Trees and green infrastructure from owned estate

Current Position (tonnes CO2 Emissions 18/19)

Gas	9,769	Electricity	13,916	Procurement	?
Oil	660			Business/grey fleet	566
Fleet fuels	4,285			Staff Commute	?
				Direct waste	?
				Sequestration	?

Typical Distribution of Emissions



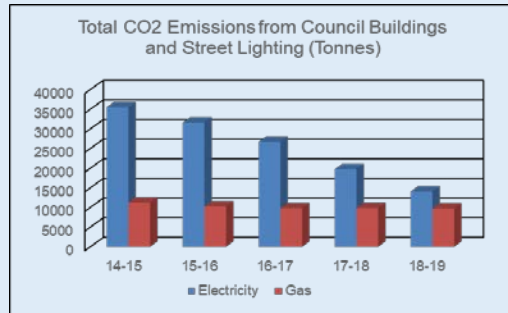
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COUNCIL ACHIEVEMENTS TO DATE

We have a good starting position:



Estate Carbon Reduction (buildings and street lighting) 43,900 tCO2 saved (49%)



Cardiff Housing Partnership 2,000 affordable homes planned 97 built All exceeding national energy ratings



Housing Retrofit (since 2013) 1,194 External Wall Insulation 8,455 internal insulation and boiler upgrades



Council Owned Renewables

Solar

38 estate = 344 tCO2
100 Houses = 60 tCO2



Hydro

Radyr Weir = 600 tCO2



Renewable Heat

Approx 10 = ?



Electric Vehicle Infrastructure

18 on street chargers installed
6 Rapid chargers secured
Chargers procured for fleet in council buildings
Electric Bus Grant



Transport White Paper

Clean Air Policy

Socially Responsible Procurement Strategy

Parks Management and i-Tree study

Greener Grangetown



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...and an ambitious pipeline:



- Cardiff Housing Partnership: PassivHaus and Sero Homes initiatives
- Lamby Way Solar Farm: offsetting 3,400 tCO₂ p/a
- Heat Network: offsetting 6,000 tCO₂ p/a
- Flood Protection Schemes
- Food Strategy
- Rail and Bus Electrification
- Long Term EV Delivery Partner

...but we need to do more, to do it faster and to work in partnership to address the challenge fully.



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Green Recovery

Immediate Opportunities and Priorities for Early Consideration and Business Planning



Large Scale Housing and Development Retrofit	Reducing fuel poverty and carbon, and creating local employment
Resilient Development	LDP policy review and leading by example
Low Cost Efficient Energy Generation	City wide review of land assets and partnership opportunities
Low Energy Active Transport	Transport White Paper and EV/low emission transport rollout
Greening the City	Increased tree canopy, adjusted land management and tree farm
Low Carbon Affordable Food	Food Strategy, increased local growing and smarter supply chains
Procurement	Assessing and reducing the carbon impact of our spend – Circular Economy training



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Next Steps

- Cabinet approval of draft for consultation - Oct
- Consultation – Oct-Dec2020:
 - www.oneplanetcardiff.co.uk to host:
 - The Draft Strategy;
 - Online Questionnaire for **the public**– seeking views on project prioritisation;
 - Online Questionnaire for **organisations/businesses** – seeking info on their state of play – current and proposed actions for climate change and perceived barriers to progress.
 - Formal Scrutiny session with expert witnesses and observers
- Governance:
 - Establish **Internal Programme Board** (with members and officer presence)
 - Progress **PSB Climate Emergency Board** to develop partnership and city wide actions
 - Identifying and securing appropriate **resources** to deliver
- Modelling:
 - Ensuring that all projects can be assessed and prioritised with full cost understanding
 - Identify appropriate carbon accounting and monitoring methodologies – consistent with WG ambition
 - Business planning on immediate quick win actions



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