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ONE PLANET CARDIFF

Annual Review 2022



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“How Cardiff has gone about reducing the Council’s own operational carbon emissions, covering some of the following:

- *Drivers from senior managers and councillors*
- *Getting buy in across the services*
- *Actions taken – Future actions planned*
- *Practicalities, issues and barriers”*



Project History

A STRATEGIC RESPONSE TO THE CLIMATE EMERGENCY



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- One Planet Cardiff and Climate Action Plans in place since early 2000's
 - Delivered retrofit programmes for estate (Salix/Re:Fit) and housing (ARBED), roof mounted renewables, river based hydro, waste and recycling transformation, energy innovation projects and Horizon 2020 projects etc
- Welsh Government Wellbeing of Future Generation Act
- The Council declared a Climate Change Emergency in 2019 – (Member led)
- Welsh Government set an ambition for the Public Sector in Wales to be Carbon Neutral by **2030**
 - **= A NEW URGENCY AND STRENGTHENED COMMITMENT**
- “One Planet Cardiff” Strategy and Action Plan approved in Oct 21
- “Stronger, Fairer, Greener” May 22 – Strengthened position on climate change issues – (also Member led)



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1. Carbon Neutral Council

Cardiff City Council Net Zero in its activities by 2030:

2. Carbon Neutral City

A partnership route map for Net Zero Carbon City by 2030:

Wales Target 2040 GB Target 2050



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Carbon Neutral COUNCIL

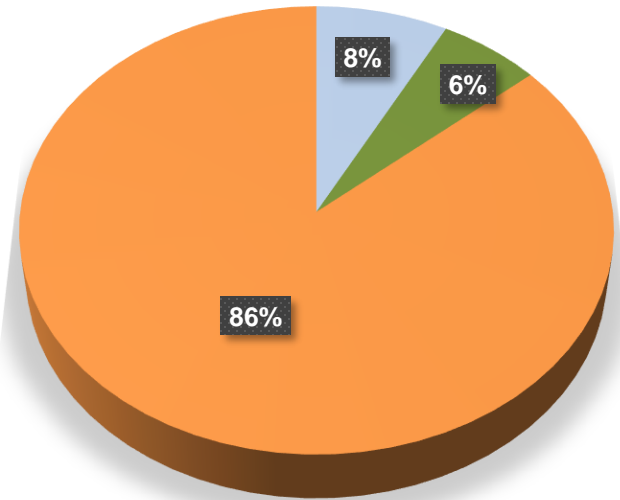
Benchmarking and Monitoring

Welsh Government Carbon Reporting Framework



Total GHG Emissions 2019/20
(tonnes CO₂e)
184,904

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 goodsBusiness travel, “Grey Fleet” and staff commutingDirectly generated waste Direct Sequestration <ul style="list-style-type: none">Trees and green infrastructure from owned estate



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Strategy Development

Needed to:

- build on previous experience and success, and best practice elsewhere;
- accelerate action dramatically; and
- address structural, governance and decision making issues across all directorates and beyond



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7 Strategic Action Areas



7 “Facilitating” Themes

Governance	<ul style="list-style-type: none"> Climate impact as a prioritizing factor? Policy Integration and maximising co-benefits
Behaviour Change	<ul style="list-style-type: none"> Internal Carbon literacy training and Comms Citizen, community and youth engagement
Procurement	<ul style="list-style-type: none"> Smarter Specification? Project data and supplier intelligence
Collaboration	<ul style="list-style-type: none"> We can't do this alone.
Regulation and Policy	<ul style="list-style-type: none"> Fit for purpose in the context of the climate change emergency?
Finance	<ul style="list-style-type: none"> “Whole of life” cost analysis? Invest to save vs emergency measures?
Economic Development	<ul style="list-style-type: none"> New products /skills; Currently huge skills gap New business; growing the local green economy

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OPC Cabinet Report October 2021:

3 key decisions:

- Approved the OPC Strategy and Action Plan;
- Recommended that the CEx developed plans to embed Carbon in Council Decision making; and
- Confirmed a governance structure for oversight and delivery of the programme



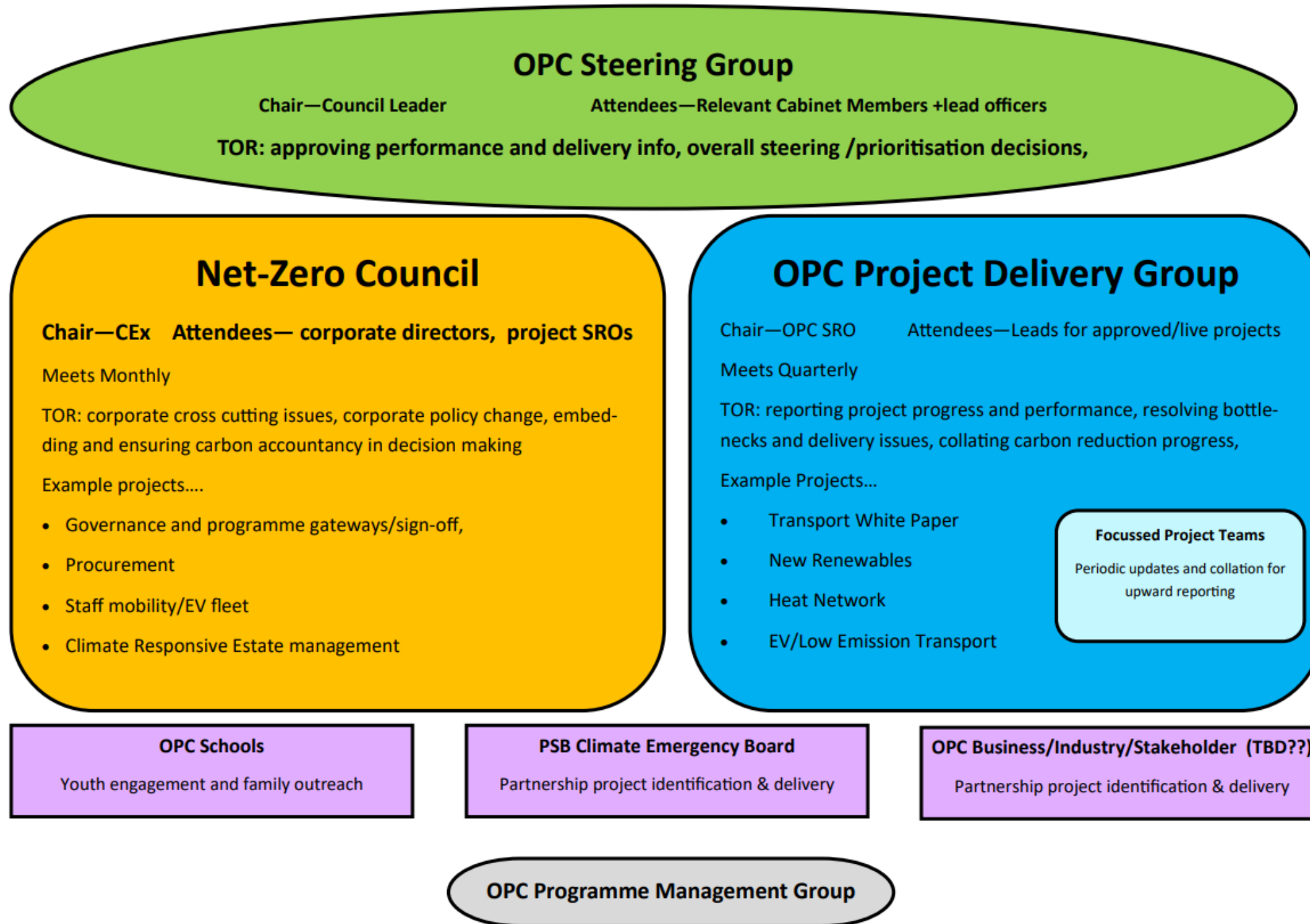
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OPC Governance Structure

Led by Cabinet Member for Climate Change

Annual reporting of carbon stats to Welsh Government



ACTION PLAN HIGHLIGHTS

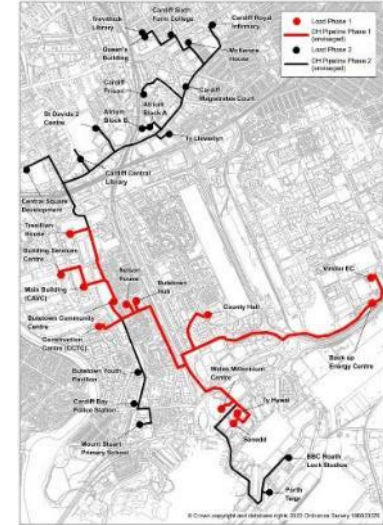
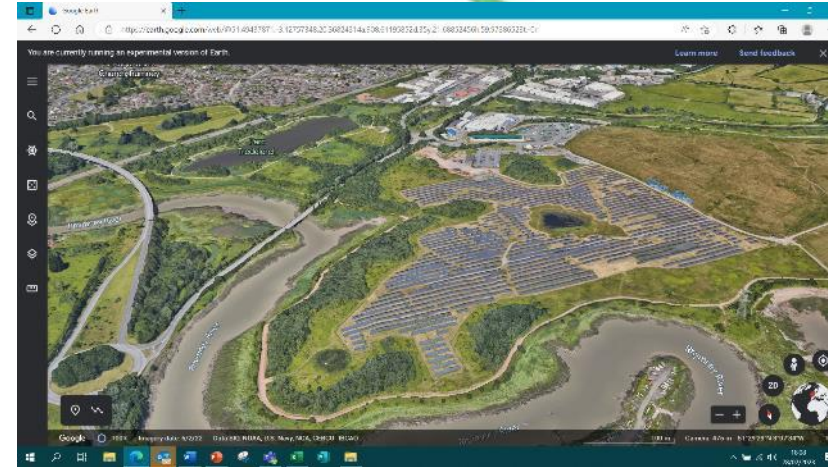


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Capital Projects

- Solar Farm (9MW)
- Heat Network
- Building Retrofit
- Domestic Retrofit
- Coed Caerdydd
- 21st Century Schools (Net Zero new build)
- EV Fleet Transition and public EV charging
- Waste Strategy
- Active travel initiatives
- Electric bus fleet
- Recycled/carbon neutral road resurfacing
- Local H2 production pilot



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ACTION PLAN HIGHLIGHTS



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- Strategic/Policy Projects
- Socially Responsible Procurement Strategy
- Staff Mobility – Fleet, hybrid working, HR policy, structural wins
- “Embedding Carbon” Project (finance/corporate plan/business as usual)
- Schools OPC Pledge
- Climate Emergency Board – (public sector/academic collaboration)
- Climate Change Convention – (business and community stakeholders)
- Planning Policy/Building Regs Position Statement
- Pipeline of renewables/ energy prospectus?
- Local Area Energy Plan



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Control and Monitoring Structure

- Creation of Cabinet lead role
- Annual carbon reporting to WG
- Annual OPC Review to cabinet
- Steering board and CEx meetings
- Embedding Carbon in governance and decision making
- Visualisation and “Pathway” tools for informed decision making:



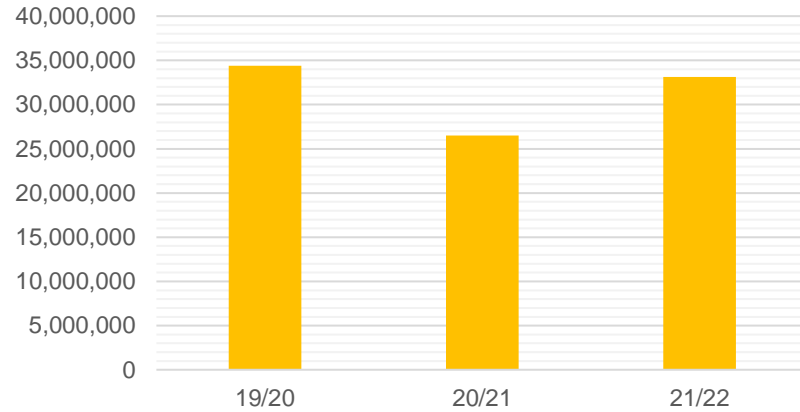
2021/22 Carbon Emissions



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Total Operational Emissions – 4% reduction



Procurement Emissions

154,353,420

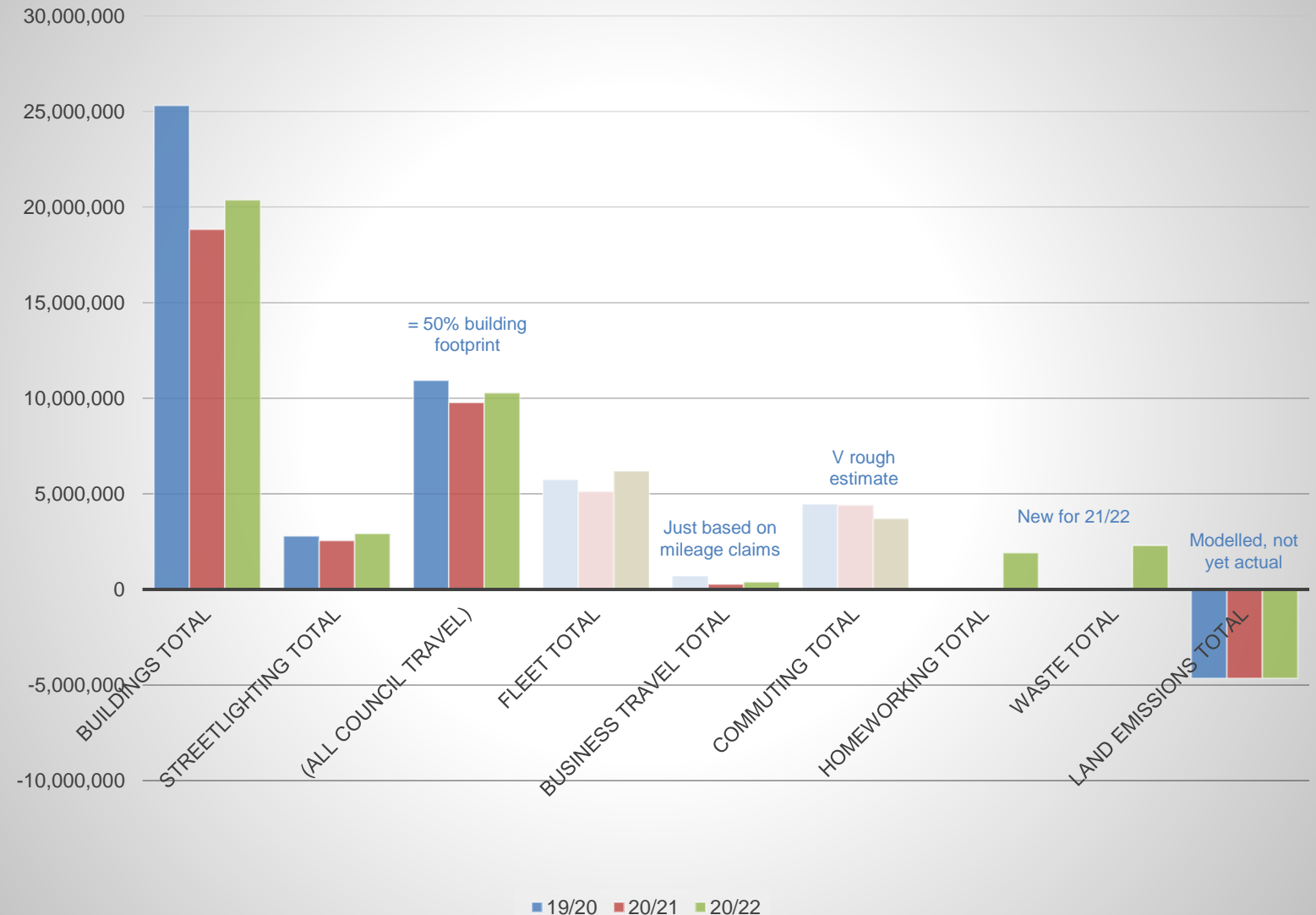
175,546,938

Questionable WG
Methodology!

2019/20

2021/22

Operational Carbon Emissions 2019-2022

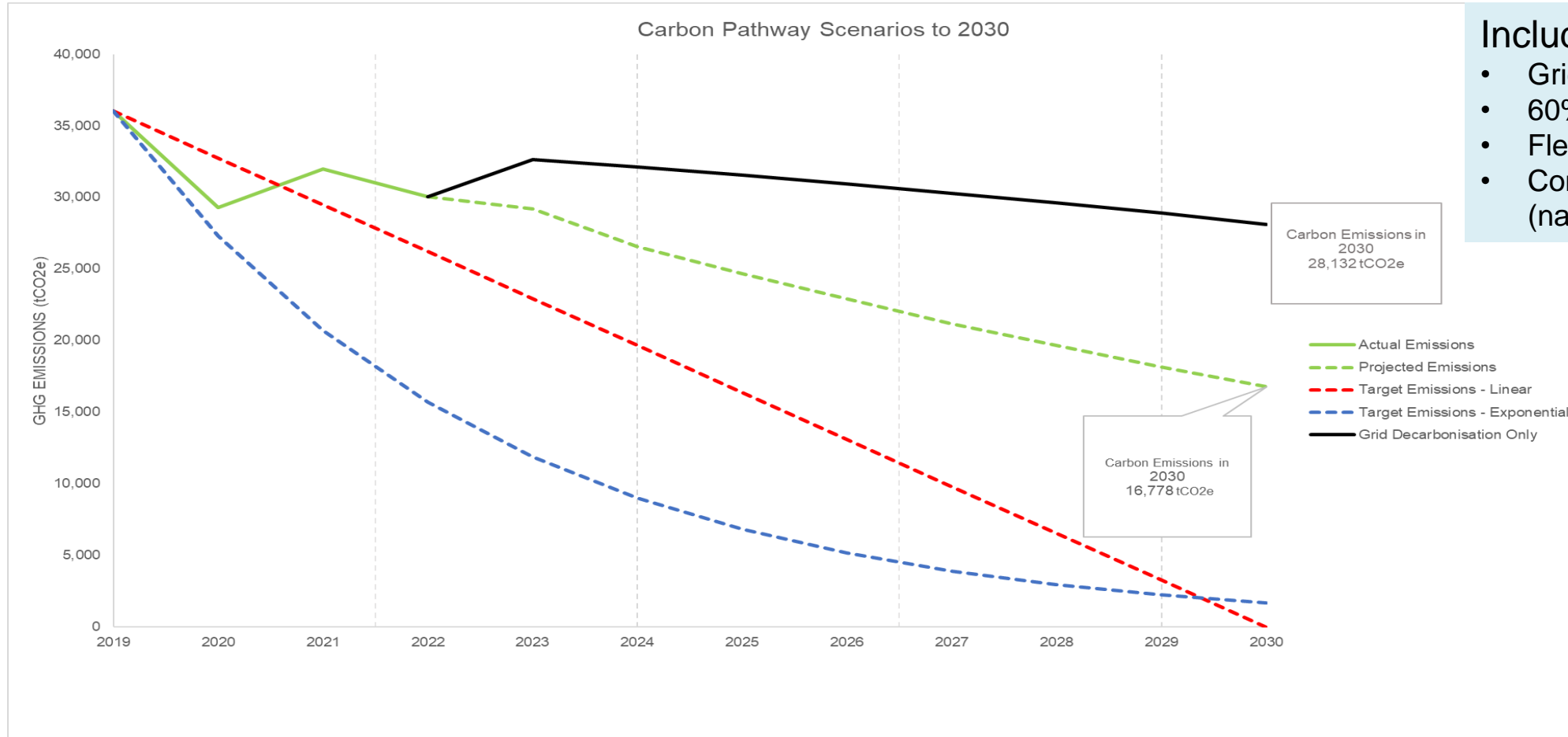


Pathway to Net Zero Council

Work in progress – but based on currently agreed projects



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Includes:

- Grid Decarbonisation
- 60% Estates Efficiencies
- Fleet transition
- Commute and staff travel (natural decarb)

localpartnerships.org.uk



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Key challenges to Zero: Removing 16,000 t

Only 7 yrs left – major challenge remains – even if we do all we say we will!

- **Procurement – improving data collection and moving from pilots to standardisation**
- **Major Behaviour Change Programme – multi dimensional**
- **Cutting Buildings emissions – true costs and delivery vectors?**
- **Major New Renewables: directly feeding operations**
- **Directorate Accountability – and carbon literacy**
- **Carbon as a structural decision making factor**
- **Finance – whole life costs, the costs of doing nothing, and lobbying**
- **Call in the experts where you can – WELSH GOVERNMENT ENERGY SERVICE ☺**

