

South Derbyshire District Council

Climate and Environment Action Plan 2020-24

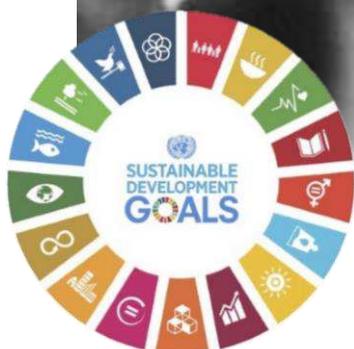


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Introduction

This Interim Action Plan outlines South Derbyshire District Council's (SDDC) short-term actions to deliver the aspirations of the South Derbyshire Climate and Environment Strategy.

This Plan outlines the actions which the Council proposes to progress during the period 2020-24.

Due to the very short time between the publication of the Tyndall carbon budget for South Derbyshire and the committed publication date of this Plan, there has been limited opportunity for significant internal or external stakeholder engagement.

This has therefore been published as an 'Interim Plan' which will be revised and consulted on over the course of the next year (2020).

This is the first Climate and Environmental Action Plan published by the Council. The Plan will be revised on a rolling annual basis in order to enable the actions to adapt to changes in knowledge, technology and funding. The Council also proposes to publish a longer-term Action Plan to cover the timeframe up to and beyond the end date of the Climate Emergency declaration.

The Council has two distinct and separate roles to play in combating climate change. First is to seek to reduce the **direct** and **indirect** emissions arising from the emissions of all SDDC activities.

Second is to seek to use the Council's **influence** to reduce the emissions of all other carbon emitters within the District.

The Action Plan is split into two sections to reflect these two roles.



Our Aspiration

On 27th June 2019 the Council declared a Climate Emergency. This committed to:

- **Strive to make South Derbyshire District Council carbon neutral by 2030 and achieve carbon neutrality before the Government target of 2050;**
- **Call on the UK Government to provide the powers and resources to make the 2030 target realistic;**
- **Work with partners across the District and region to deliver this goal through all relevant strategies;**
- **Report back to Council within six months and have a standard Environmental and Development Services Committee agenda item on Environmental Improvements the Council is taking to address this emergency.**

Our Objectives and Targets

Emissions from SDDC Activities

An analysis of the Council’s baseline emissions for 2018/19 has calculated that the direct and indirect emissions from the services provided by the Council equated to **2,500 tonnes** of carbon dioxide equivalent over the course of the year (tCO₂e). The process for calculating the emissions is relatively new and it is estimated that there is a 20 per cent margin of error in these calculations.

Figure 1 below provides a further breakdown of these emissions by source.

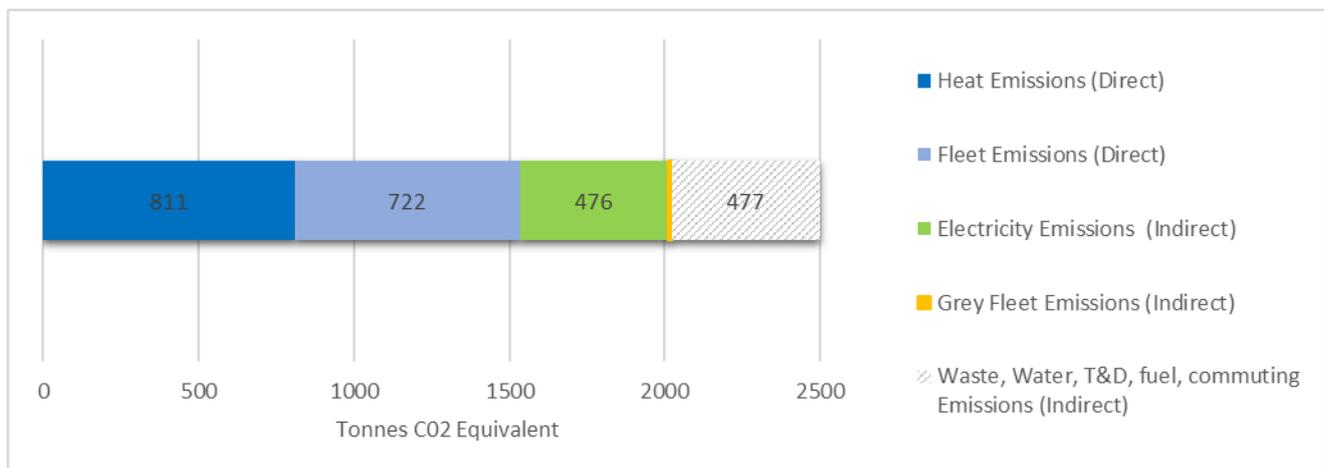


Figure 1 South Derbyshire District Council Emissions Inventory - Tonnes CO₂e

Total Emissions in South Derbyshire

The total annual carbon dioxide emissions from all sources within the administrative area of South Derbyshire in 2019 is estimated to be **805,711 tonnes**. The main sources of these emissions are illustrated in Figure 2.

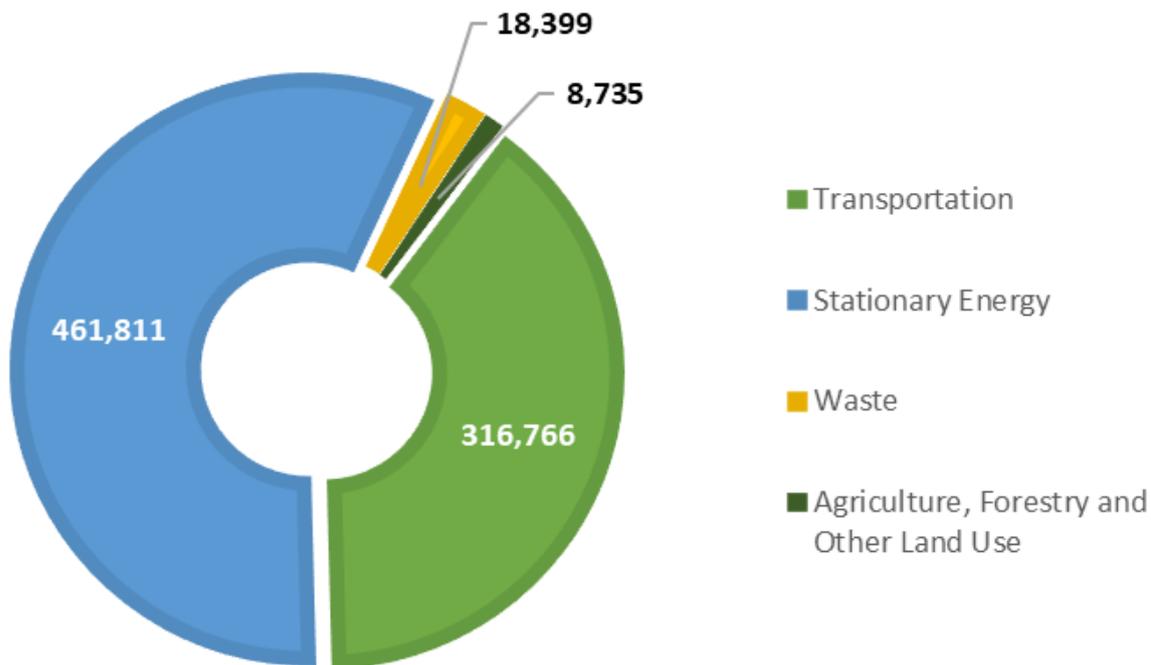


Figure 2 SCATTER data for the South Derbyshire District Emissions Inventory - Tonnes CO₂e

This data is obtained from the SCATTER carbon accounting model. SCATTER is being delivered in phases. The first phase was the creation of a predicted carbon inventory for all sources within each local authority area.

The proposed second phase, which is not live at the time of the production of this Strategy, is designed to enable the communities within each local authority area to create reduction plans based on the selection of mitigation options relating to 35 classes of emissions sources contained within the model.

The Carbon Budget for South Derbyshire

Carbon ‘budgets’ have been also been produced of the total area emissions for each local authority administrative area through the [Tyndall](#) Carbon Budget tool. The tool is based on a ‘grandfathering approach” (which includes historical emissions and current emissions data) with the aim of enabling the communities within each administrative area to understand the remaining available carbon budget for all activities within the area.

Based on the current carbon budget calculation, if no action is taken within South Derbyshire, then the emissions from homes and businesses across the District will have used the available carbon budget within **six years**. Any additional emissions in excess of this budget is predicted to directly contribute to global warming beyond 1.5°C and the potentially irreversible impacts that this will cause.

The Tyndall Carbon Budget provides recommended carbon budgets for set budget periods up until 2100 and are summarised in the following table. These figures illustrate the very rapid decarbonisation required across South Derbyshire in order to stay within the carbon budget. Figure 3 provides a graphical illustration of the scale of the carbon reduction required in South Derbyshire until the end of this century.

Carbon Period	Budget	Recommended Carbon Budget (Mt CO ₂)	Reduction in Annual Emissions (based on recommended pathway)
2018 - 2022		3.0	21.6%
2023 - 2027		1.5	63.3%
2028 - 2032		0.7	82.8%
2033 - 2037		0.3	91.9%
2038 - 2042		0.1	96.2%
2043 - 2047		0.1	98.2%
2048 - 2100		0.1	99.2%

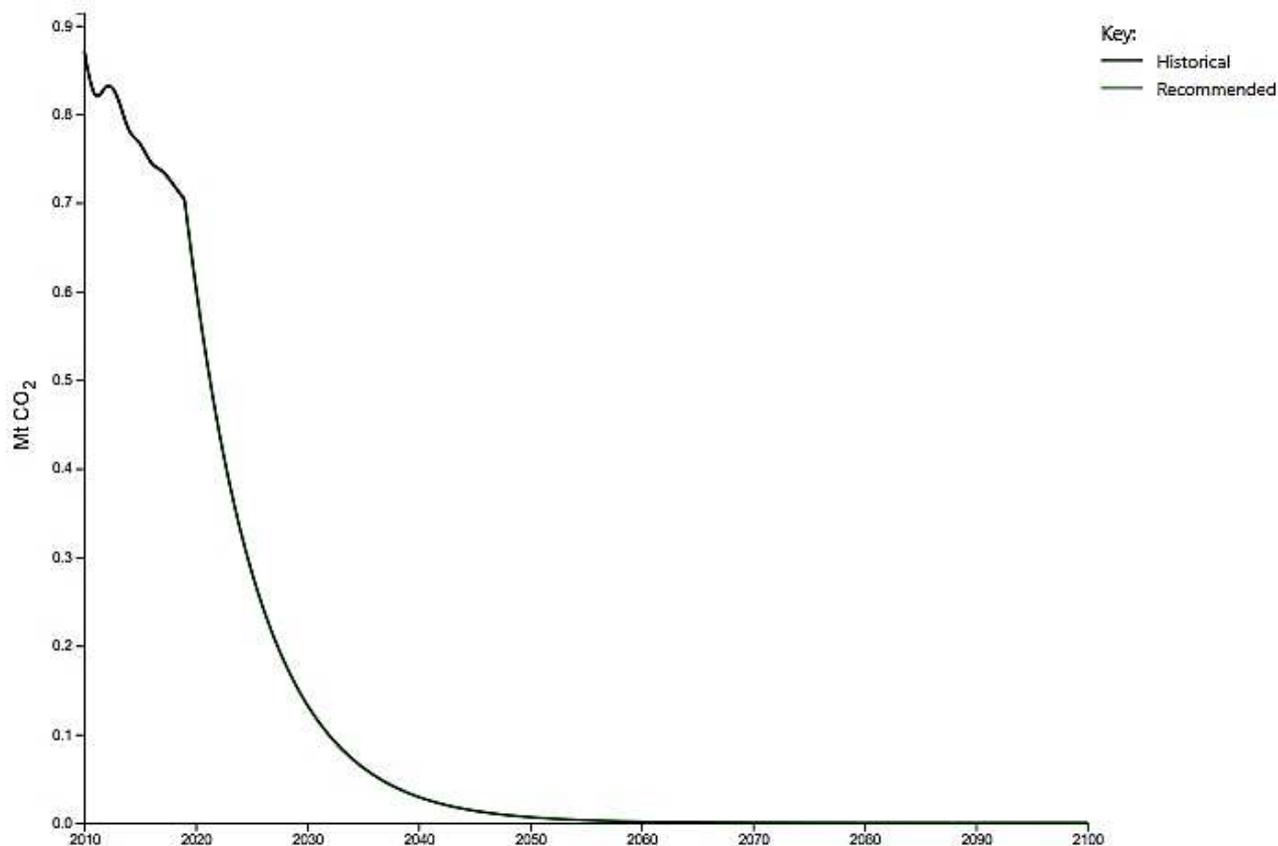


Figure 3 - Tyndall Centre

Proposed Actions

Emissions from Council Activities

Where possible, the Council has sought to calculate or estimate the predicted carbon equivalent reductions associated with each action.

'Committed' costs are where a project has been approved and funding has been allocated. 'Uncommitted' costs relate to projects which have not yet been fully approved and funded, but which are in development.

The following 'hard' measures are proposed actions and activities which will lead to a direct predicted reduction in carbon equivalent emissions from the Council's own activities.

Action Details	SDDC A1 - Delivery of Staff Travel Plan
Emissions Source	Fuel - All locations. Also, staff fuel emissions which is currently outside the scope of the Council's CO ₂ e calculation
Owned by	All Heads of Service
Dates	2020 - 2024
Impact	10.3 tonnes CO ₂ e (estimated)
Cost	£40,000 (uncommitted)

Action Details	SDDC A2 - Phased replacement of plant and machinery with electric alternatives
Emissions Source	Fuel at Boardman Road depot
Owned by	Head of Operational Services
Dates	June 2020
Impact	1 tonne CO ₂ e (estimated)
Cost	£250,000 (uncommitted)

Action Details	SDDC A3 - Provision of alternative waste collection and disposal methods at SDDC administrative sites
Emissions Source	Waste at Civic Way, Boardman Road depot & Rosliston
Owned by	Head of Operational Services
Dates	June 2020
Impact	0.3 tonnes CO ₂ e (estimated)
Cost	(£2,000) (uncommitted)

The following 'soft' measures are proposed activities which will not directly lead to a predicted reduction in carbon equivalent emissions, but which will either acquire data which will create the opportunity to lead to reductions or which will promote behaviour change which will lead to carbon reductions.

Action Details	SDDC B1 - Housing Environmental Impact Project
Emissions Source	Electric and gas, Council housing stock (currently outside of the Council's CO ₂ e calculation)
Owned by	Head of Housing Services
Dates	By September 2020
Impact	Acquisition of baseline data to identify potential future carbon reduction measures across the stock
Cost	£63,000 (committed)

Action Details	SDDC B2 - Embedding carbon neutrality into the Civic Hub project brief
Emissions Source	Electricity, gas, water, waste at Civic way
Owned by	Head of Corporate Property and Head of Economic Development and Growth
Dates	June 2020
Impact	Identification of carbon neutral opportunities for the Civic Hub development options
Cost	10 hours (committed)

Action Details	SDDC B3 - Monitoring and performance feedback of all emissions sources
Emissions Source	Fuel, gas, electricity, water, waste. All sources
Owned by	Head of Environmental Services / all Heads of Service
Dates	Quarterly report from 2020 to 2024
Impact	Increased awareness and accountability for carbon emissions from different Council activities
Cost	300 hours staff time per year (uncommitted)

Action Details	SDDC B4 - Installation of smart metering for energy and water
Emissions Source	Gas, electricity, water. All sources
Owned by	Head of Corporate Property
Dates	2021
Impact	Increased awareness and accountability for carbon emissions from different Council activities
Cost	£5,000 (uncommitted)

Action Details	SDDC B5 - Renewable energy infrastructure review
Emissions Source	Gas, electricity, fuel at Boardman Road depot and associated buildings
Owned by	Head of Operational Services
Dates	April 2022
Impact	Identification of opportunities for carbon neutral energy production, storage and future low carbon plant use
Cost	£3,000 (uncommitted)

Action Details	SDDC B6 – Completing the committed actions in the Leisure Energy report for Active Nation (2016) for leisure centres
Emissions Source	Electricity at Greenbank and Etwall Leisure Centres
Owned by	Head of Cultural and Community Services
Dates	June 2020
Impact	Currently uncalculated
Cost	Uncosted (uncommitted)

Action Details	SDDC B7 – Lifecycle analysis including updated energy review for leisure centres
Emissions Source	Electricity at Greenbank and Etwall Leisure Centres
Owned by	Head of Cultural and Community Services
Dates	December 2020
Impact	Acquisition of information to inform investment options to reduce carbon emissions in the leisure centres
Cost	Uncosted (uncommitted)

Action Details	SDDC B8 - Review of alternative fuel provision at Rosliston
Emissions Source	Fuel at Rosliston
Owned by	Head of Cultural and Community Services
Dates	Jan 2021
Impact	Acquisition of information to inform fuel replacement options to reduce carbon emissions at Rosliston
Cost	Uncosted (uncommitted)

Action Details	SDDC B9 - Review of the Fleet Procurement Plan to identify opportunities to decarbonise the Council's vehicle fleet
Emissions Source	Fuel at Boardman depot
Owned by	Head of Operational Services
Dates	2023
Impact	Opportunity to identify carbon neutral fleet procurement options
Cost	100 hours staff time (one off) (uncommitted)

Action Details	SDDC B10 - Undertake a carbon review of 'Scope 3' third party emissions to quantify the carbon impacts of existing suppliers and supply chains.
Emissions Source	All
Owned by	Head of Environmental Services
Dates	Jan 2021
Impact	Identify carbon reduction opportunities with contractors
Cost	200 hours staff time (one off) (uncommitted)

Action Details	SDDC B11 - Carbon literacy training for councillors, managers and staff
Emissions source	All
Owned by	Head of Environmental Services
Dates	December 2020
Impact	Higher awareness throughout all staff of personal and corporate carbon impacts
Cost	400 hours staff time (one off) (uncommitted)

Action Details	SDDC B12 – Revise the procurement tendering process to improve carbon neutral questions and scoring criteria.
Emissions source	All
Owned by	Environmental Protection Officer
Dates	Sept 2020
Impact	Increased importance of carbon accounting within future procurement decisions
Cost	20 hours staff time (one off) (committed)

Action Details	SDDC B13 – Climate and Environment Emergency communication plan
Emissions source	All
Owned by	Head of Organisational Development and Performance
Dates	Annual Plan to 2024
Impact	Maintenance of awareness of carbon budgeting and literacy throughout all staff.
Cost	50 hours staff time per year

Action Details	SDDC B14 – Continuous review of funding and grants availability to identify carbon neutral bid opportunities for the Council and partners
Emissions source	All
Owned by	Head of Environmental Services
Dates	2020 – 24
Impact	Identification of funding opportunities to help deliver the contents of this Action Plan and other corporate plans and strategies.
Cost	£1,000 per annum & 100 hours staff time per year

Action Details	SDDC B15 - Review internal policies and strategies to embed carbon neutral considerations into them at their next review
Emissions source	All
Owned by	Head of Environmental Services
Dates	Jan 2021
Impact	Improved cohesion between corporate policies and strategies
Cost	50 hours staff time (one off)

Action Details	SDDC B16 – Corporate Asset Management Strategy (Public and Commercial Buildings)
Emissions source	Public buildings
Owned by	Head of Corporate Property
Dates	September 2020
Impact	Improved consideration of carbon emissions within asset management of the existing public buildings stock (not including residential)
Cost	Unknown cost & 20 hours staff time (one off)

Action Details	SDDC B17 – Develop local public – private partnerships to enable reductions in SDDC operational emissions.
Emissions Source	All
Owned by	Head of Economic Development & Growth
Dates	2020 - 2024
Impact	Enable private sector expertise to help deliver SDDC emissions reductions
Cost	100 hours staff time per annum (uncommitted)

Action Details	SDDC B18 – Implement a ‘Green Lease’ clause so that new SDDC tenancies move into a property on a green energy tariff as a default
Emissions Source	SDDC housing stock
Owned by	Head of Housing
Dates	Dec 2020
Impact	Reduced CO ₂ e emissions from SDDC housing stock
Cost	50 hours staff time (one off) (uncommitted)

Action Details	SDDC B19 - Negotiation of a corporate energy contract with a carbon neutral provider
Emissions Source	Electricity and gas at Civic Way
Owned by	Head of Corporate Property
Dates	June 2020
Impact	Potential for reduced CO ₂ e emissions from a revised energy tariff
Cost	Nil additional staff time, Currently unknown cost (committed)

Total Emissions in South Derbyshire

Action Details	SD1 - Revise the SDDC Local Plan to include enhanced policy support for carbon neutral development
Emissions Source	All sectors
Owned by	Head of Planning and Strategic Housing
Dates	2020 - 2024
Impact	TBD
Cost	100 hours staff time (one off) in addition to the time already required for the review (uncommitted)

Action Details	SD2 - Woodville to Swadlincote Regeneration route
Emissions Source	Transport
Owned by	Derbyshire County Council
Dates	2020 - 2024
Impact	TBD
Cost	Nil to SDDC

Action Details	SD3 - Free Tree scheme
Emissions Source	Carbon sequestration from all sectors
Owned by	Head of Corporate Property
Dates	2020 - 24
Impact	TBD
Cost	Nil (committed)

Action Details	SD4 - Derbyshire Healthy Homes Programme
Emissions Source	Domestic
Owned by	Head of Planning & Strategic Housing
Dates	2020 - 2022
Impact	TBD
Cost	£80,000 per year (committed from BCF funding)

Action Details	SD5 - South Derbyshire Healthy Homes Assistance Fund
Emissions Source	Domestic
Owned by	Head of Environmental Services
Dates	2020 - 2022
Impact	TBD
Cost	£100,000 per year (committed from BCF funding)

Action Details	SD6 - Develop and implement a programme of community, business and partnership engagement
Emissions Source	All
Owned by	Head of Environmental Services
Dates	2020 - 2024
Impact	Unknown
Cost	£10,000 and 500 hours staff time per annum (uncommitted)

Action Details	SD7 – Work with Derbyshire Councils to create a prioritisation plan to call on the government to provide relevant powers and resources to enable the Climate and Emergency Plan.
Emissions Source	All
Owned by	Head of Environmental Services
Dates	2020 - 2024
Impact	Unknown
Cost	100 hours officer time (committed)

Action Details	SD8 – Effective enforcement of the Energy Efficiency Regulations
Emissions Source	Private rented housing stock
Owned by	Head of Environmental Services
Dates	2020 - 2022
Impact	TBD
Cost	200 hours officer time (committed)

Action Details	SD9 – Development of planning policies and Action Plan for Nature to maximise carbon sequestration and climate adaption
Emissions Source	All
Owned by	Head of Cultural and Community Services
Dates	Dec 2021
Impact	TBD
Cost	200 hours officer time (uncommitted)

Action Details	SD10 – Development of a business resilience assessment to climate and environment change and incorporate into the risk register
Emissions Source	All
Owned by	Head of Environmental Services
Dates	December 2021
Impact	TBD
Cost	100 hours officer time (committed)

Resources & Funding

The cost to the Council of delivering the Action Plan **for the first year of the Action Plan (i.e. 2020-2021)** is summarised in the Table below. A priority rating has been allocated to each action based on an approximate cost / benefit comparison.

Action Ref	£ Cost / (Saving)	Hours	CO ₂ e Saving	Priority
SDDC A1	£40,000	-	10.3	High
SDDC A2	£150,000	-	1.0	High
SDDC A3	(£2,000)	-	0.3	High
SDDC B1	£63,000	-	-	High
SDDC B2	0	10	-	High
SDDC B3	0	300 per year	-	High
SDDC B4	£5,000	-	-	Medium
SDDC B5	£3,000	-	-	Medium
SDDC B6	uncosted	-	-	High
SDDC B7	uncosted	-	-	High
SDDC B8	uncosted	-	-	Low
SDDC B9	0	100	-	High
SDDC B10	0	200	-	Medium
SDDC B11	0	400	-	Medium
SDDC B12	0	20	-	High
SDDC B13	0	50 per year	-	High
SDDC B14	£1,000	100 per year	-	Medium
SDDC B15	0	50 per year	-	Low
SDDC B16	uncosted	20	-	Medium
SDDC B17	0	100 per year	-	Low
SDDC B18	0	50	-	High
SDDC B19	uncosted	0	-	Low
SD1		100	To be determined	High
SD2	0	-	To be determined	Medium
SD3	0	-	To be determined	Medium
SD4	£80,000 per year	-	To be determined	Medium
SD5	£100,000 per year	-	To be determined	Medium
SD6	£10,000	500 per year	To be determined	Medium
SD7	0	100 per year	To be determined	High
SD8		200 per year	To be determined	High
SD9			To be determined	High
SD10		100	To be determined	Low

Monitoring & Measurement

The carbon budget projections for 2020 – 2030 are summarised in Figure 5. The Figure presents the annual carbon budget predictions based on four prediction scenarios;

Scenario 1 - 'Business As Usual'. Based on only delivering the carbon reductions from the actions which have already been committed to (i.e. highlighted in green in the Resources and Funding table).

Scenario 2 – 'Climate & Environment Emergency Plan Commitments'. Based on delivering the carbon savings estimated as being achievable by delivering the actions contained in this Plan.

Scenario 3 – 'High Level'. Based on a non-linear trajectory to achieve carbon neutrality by 2030. This trajectory will require significant additional commitments beyond those contained in this Interim Action Plan.

Scenario 4 – "Tyndall". An approximate trajectory of the savings required of emissions from SDDC activities if it is to achieve the same profile of District-wide reductions illustrated in Figure 3.

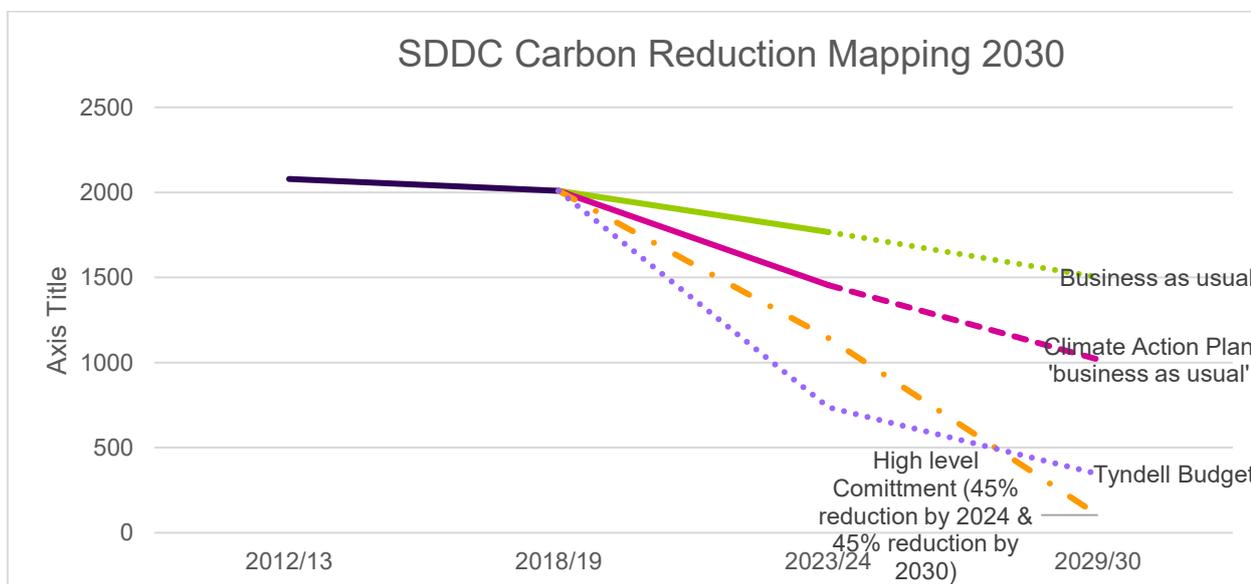


Figure 4 – Carbon Reduction Trajectory

Version Control

Version	Changes	Date
1	Version 1	07/01/2019