



Our plan of action for the planet

2020 - 2025





Councillor Sara Rowbotham Lead member for Climate Change

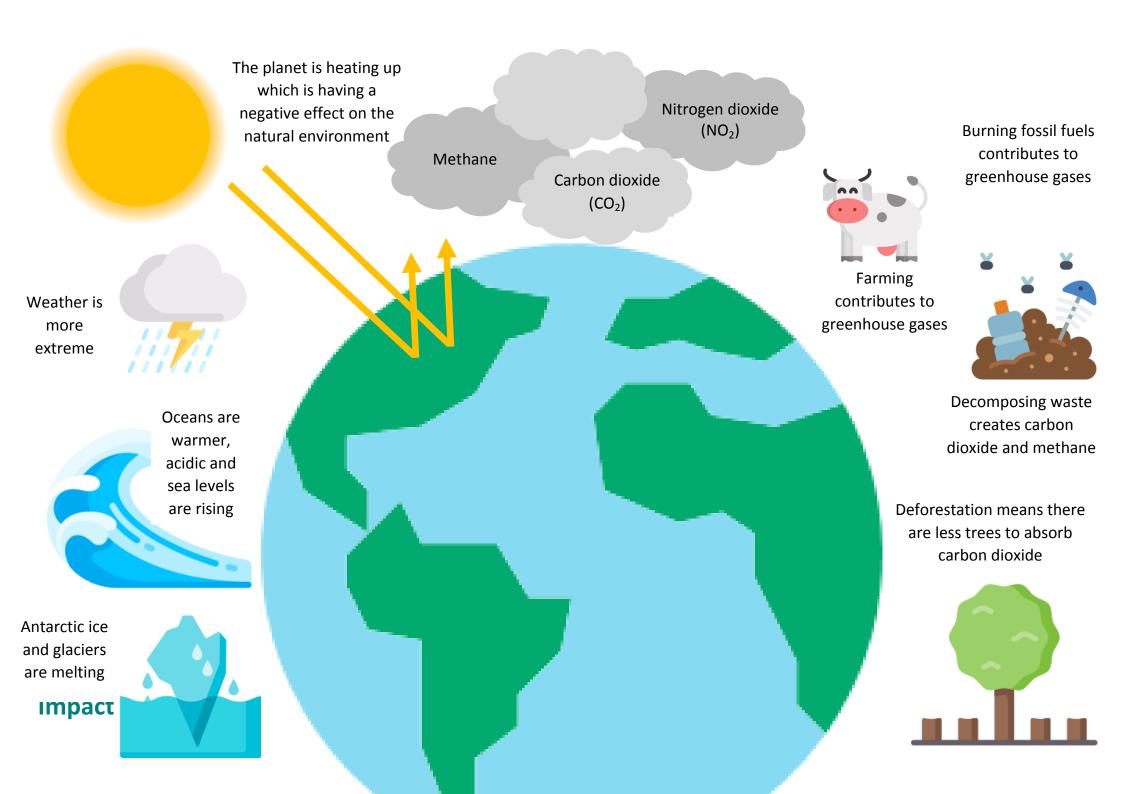
Pollution is having a major impact on the natural environment and our health. It is causing the planet to get hotter which is leading to rising sea levels, warmer and acidic oceans, more rain and heatwaves. These environmental changes bring a threat of flooding, drought, land erosion, loss of habitation for wildlife and an increase in heat and cold related illness. Our borough has already suffered terrible flooding which has caused disruption to essential services, transport and loss of income for local businesses, so we know the devastation it can bring. In the UK, 40,000 people die annually from air pollution. Around 10% of Rochdale's population have a respiratory disease and it is estimated that around 4.2% of deaths in Rochdale are related to respiratory diseases caused by air pollution. The climate emergency is threatening our existence and we must act quickly. Pollution mostly comes from human activity so we must all increase our efforts to reduce our own impact on the planet.

Our borough is facing major environmental challenges. The Council must help to limit the rise in global temperatures, reduce greenhouse gas emissions, reduce the amount of waste that is produced and ensure places and spaces are resilient to the shocks and stresses of climate change. This plan identifies the urgent action we need to take to achieve environmental sustainability and enhance the prosperity of people and the planet. This includes using renewable sources of energy for powering transport and heating buildings, being more efficient and responsible when we are making, buying and using goods and services, protecting and maintaining the natural environment and ensuring that our infrastructure can withstand expected and unexpected situations. Taking climate action will improve lives, not diminish them. It can deliver additional benefits such as improved health, job opportunities and bringing people together. Most of all it will secure a future for the next generation.

atmosphere. They come from human activity and natural processes

Effects of climate change







European and UK climate change policy and targets

The European Union and UK Government have set targets for reducing the impact of climate change

Global warming

The Paris Agreement 2015

Keep global temperatures well below 2°C and aim for 1.5 °C

Carbon dioxide emissions

The Paris Agreement 2015

Reduce global greenhouse gas emissions to below 1990 levels by second half of the 21st century

Climate Change Act 2008

Bring UK carbon dioxide emissions to net zero by 2050

Nitrogen dioxide emissions

The Air Quality Standards Regulations 2010

NO₂ emissions to comply with EU Limit Values in the shortest possible time

- The hourly mean value may not exceed 200 micrograms per cubic metre (μg/m3) more than 18 times in a year
- The NO₂ annual mean value may not exceed 40 micrograms per cubic metre

Renewable energy

Renewable energy directive 2018

32% of energy is fulfilled by renewables by 2030

10% of transport fuels come from renewable sources by 2030

Waste management

The Waste Framework Directive 2008

Cut the amount of waste going to landfill by 10% by 2035

65% of municipal waste to be recycled by 2035

70% of packaging waste to be recycled by 2030 (85% of paper and cardboard, 80% of Ferrous metals, 80% aluminium, 75% glass

Halve per capita, food waste at the retail and consumer level

Regional policy and targets

The Greater Manchester Combined Authority has set targets for Greater Manchester, aligned with European and national policy

Carbon dioxide emissions

Greater Manchester Environment Plan 2019

Bring carbon dioxide emissions to net zero by 2038

10% reduction in heating and cooling demand by 2025 with a 22% total reduction by 2038

38% reduction in industrial emissions by 2025 with a 50-77% reduction by 2038

Retrofit 61,000 homes per year by 2024

Public buildings to obtain an average Display Energy Certificate (DEC) rating of D or better by 2024 and C by 2030

Nitrogen dioxide emissions

Greater Manchester Clean Air Plan 2019

Reduce NO₂ emissions on road links where modelling has identified exceedances beyond 2020 (152 stretches of road identified across GM)

Greater Manchester Environment Plan 2019

100% of all cars are zero emissions by 2035

100% of all buses are zero emissions by 2035

Renewable energy

Greater Manchester Environment Plan 2019

Add 45MW of local renewable electricity generation by 2024

Add 10TWh of low carbon heating by 2024

Add another 45MW of energy supply through other sources

20% renewable energy generation at new developments

Waste management

Greater Manchester Environment Plan 2019

Limit any increase in the quantity of waste produced to 20%

Achieve a recycling rate of 65% by 2035

Natural environment

Greater Manchester Environment Plan 2019 - 2024

Plant 3 million trees by 2035 and a further 1-2 million by 2050

Restore 50-75% of peatlands by 2038

Local policy and targets

On 17th July 2019 Rochdale Council passed a motion on climate change



The Council resolves to:

- Declare a climate emergency
- Work towards ensuring that the borough is carbon neutral by 2050, in line with the Mayor and the Government's targets. Achieving
 this will require significant investment and policy initiatives from the Government, and Council hopes it would be achieved earlier
 than 2050
- Work towards ensuring that the Council is carbon neutral by 2038, recognising the leadership role it has in the borough
- Develop a working group to support the Council move from declaration to delivery drawing in cross sector expertise, capacity and capability. The working group should draw on existing expertise within the borough as well as including residents who are representative of the borough as a whole
- Set in place a process of engagement and collaborative action that enables an action plan to be considered by Cabinet and Council in early 2020, based on achieving the aforementioned targets

The climate emergency in Rochdale

Friends of the Earth have said that Rochdale is only 72% climate friendly







Rochdale has 10 stretches of road (road links) where concentrations of nitrogen dioxide are forecast to exceed legal limit values beyond 2020.



Only 37% of homes in Rochdale are well insulated and 13% of households can't afford to heat their homes properly.



The Rochdale area currently has only 13MW of renewable power.

Only 5% of the Rochdale



area is woodland



Rochdale only has 10 public electric vehicle charging points

Rochdale is producing 0.9 million tonnes of carbon dioxide emissions (MtCO2) as at 2019. 42% of emissions come from housing, 26% from transport, and 32% are industrial and commercial emissions.



In Rochdale only 12% of people commute by public transport, 1% cycle and 10% walk. Only 12% share their car.

Blanket bog is important for habitat and provides a carbon store, helping to reduce flood risk, 5.4% of the borough is blanket bog but not all is in good condition.



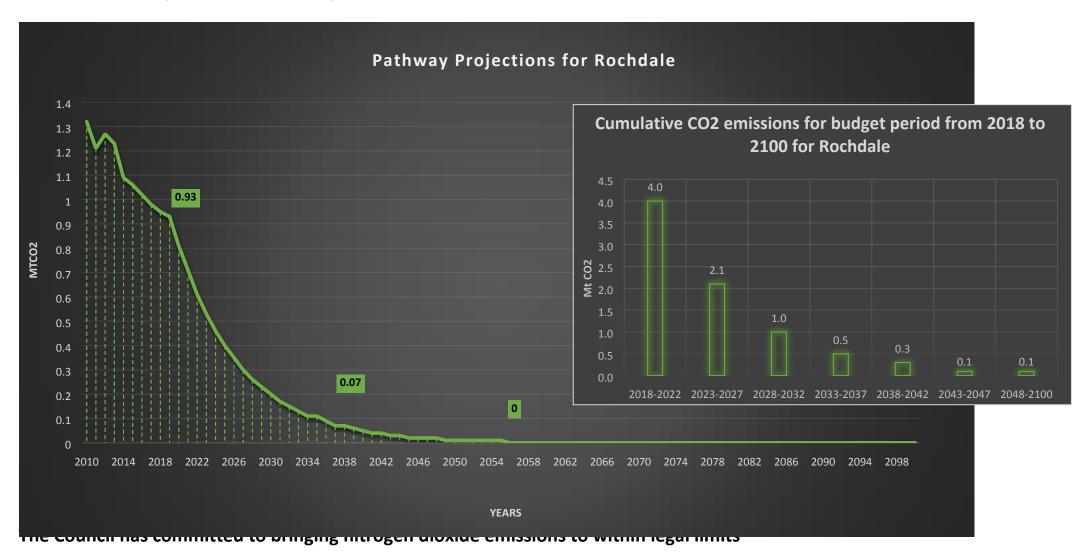
Rochdale reuses, recycles and composts 48% of its household waste.

Source: https://takeclimateaction.uk/climate-action/how-climate-friendly-yourarea-enter-your-postcode-see-results-your-community

as emissions

Greenhouse gases are the biggest threat to our planet. The Council has committed to reducing carbon emissions by 2038

The Tyndall Centre at Manchester University has said that we must make a fair contribution to reducing carbon dioxide emissions to achieve net zero by 2100. A fair contribution in Rochdale means reducing emissions by at least 13% per year, staying within a maximum carbon budget of 8.1 million tonnes (MtCO₂) from now until 2100. However, it is recommended that Rochdale stays within a recommended budget of 6.2 million tonnes (MtCO₂) to achieve as near as possible to zero by 2038. To be wholly carbon neutral by 2038, an even smaller carbon budget, with accelerated reduction rates is required over the next 18 years.



The Greater Manchester Combined Authority has said that we must implement clean air measures for the highest polluting vehicles to ensure that the 10 stretches of roads in Rochdale that are modelled to exceed EU legal limit values beyond 2020, will comply as soon as possible.

- Phase 1: Buses, taxis and commercial vehicles by 2021
- Phase 2: Long Goods Vehicles (LGV's) by 2023

Summary of exceedances in Rochdale before and after clean air measures

	Local Model point	Additional Local	Total Local Model
	exceedances on	Model point	point exceedances
	Pollution Climate	exceedances on	
	Modelling (PCM)	local roads (non	
	links	PCM links)	
2021			
Without Clean Air Measures	10	0	10
Clean Air Phase 1	2	0	2
Change in exceedances	-8	0	-8
2023			
Without Clean Air Measures	2	0	2
Clean Air Phase 2	0	0	0
Change in exceedances	-2	0	-2

Our sustainability goals and outcomes

The Council's goals and outcomes align with the Sustainable Development Goals and Greater Manchester Environmental Plan



Deliver the following co-benefits in tackling climate change

Social sustainability

Economic sustainability

Environmental sustainability



Build the resilience of those most vulnerable to climate-related events

Access to adequate, safe and affordable housing and basic services

Less exposure to environmental shocks and disasters, in particular flooding from rivers and surface water

Less people living in poverty (including fuel poverty)



Support sustainable food production and practices that can withstand climate change

More local food production

More eating of healthier and plant-based food, with less and better reared meat

More resilient agricultural practices



Relieve the burden of climate related illness and disease

Less air, water and land pollution and contamination

Less respiratory and communicable or infectious diseases

Healthier lifestyle habits, working environments and green spaces



Build knowledge and skills in sustainability

School pupils educated in sustainable development and sustainable lifestyles

Education and vocational training programmes to support careers in a green economy

Workforces equipped with the right skills for working in greener industries and sectors



Empower women and girls to support economic growth and development

More girls and young women participating in Science, Technology, Engineering and Maths (STEM) subjects

More women working in the clean tech sector

Women as stewards of natural and household resources are involved in climate action



Manage demand for water and threats to water security resulting from climate change

Better water-use efficiency

Better management, protection and restoration of water-related ecosystems, rivers, lakes etc.

Strong surface water management to reduce risk of sewer flooding

Less water needing to be treated to improve water quality



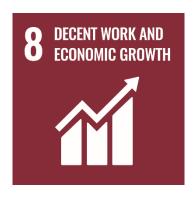
Reduce use of fossil fuels that are harmful to the environment

More renewable electricity generation

More diversity and flexibility of energy supply including low carbon heating and hydro power

Fossil fuelled private vehicles, bus and other fleets replaced with zero emission capable alternatives

Freight transport shifted to rail and water transport



Support clean and green growth for a sustained economy

New industries at the forefront of clean and green innovation e.g. advanced materials, digital technologies

More companies trading in low carbon environmental goods and services

New types of jobs supporting clean and green growth



Reduce the intensity of carbon emissions from the industry sector

Circular and resource efficient production models that reduce waste and encourage recycling

More environmentally friendly equipment, technologies and processes

Infrastructure and industries upgraded or retrofitted



Advance equal opportunity and reduce inequalities of outcomes in addressing climate change

Enhanced representation and voice for young people

Diverse and vulnerable groups supported to move to cleaner and greener ways of living

Those most vulnerable to climate change benefitting first from climate action

Make urban areas cleaner, greener and with climate responsive infrastructure

Inclusive, sustainable, resilient and accessible buildings, roads, green and public spaces

Sustainable drainage plus measures for relieving heat stress/providing cooling

Well connected and sustainable public transport systems and active travel (cycling and walking)

The most polluting vehicles removed from town centres

The natural environment included in the design of urban areas (blue/green infrastructure)

Implementation of risk and disaster mitigation, adaptation and management measures

Protect the loss of scarce resources through prevention, reduction, recycling and reuse



Reduced waste, including food and plastic waste

Increased recycling of different types of materials e.g. paper, cardboard, aluminium, glass

Reduced heat demand from existing homes, new buildings and commercial and public buildings

Harvested rainwater used as a resource in combatting climate events (drought, flooding)



Raise awareness to make it easy to identify and respond to the impact of climate change

Carbon literacy for all

Good examples of energy saving behaviour

Volunteering opportunities for climate action and nature restoration projects



Protect areas for aquatic biodiversity

Aquatic habitats created or enhanced

Reduce and mitigate land and water activity that causes damage to aquatic habitats

Aquatic wildlife sustained by tackling destructive fishing practices and managing aquaculture and tourism



Protect and restore vital ecosystems and species

Achieving a net gain in biodiversity through new development

Increased tree and wildflower planting as part of sustainable drainage systems

Wildlife habitats created, enhanced or protected from harm, including managing and restoring peatlands

Increased and maintained green spaces, green belt and designated nature sites



Mobilise change through effective participation and governance

Dedicated political and officer leads for climate change

Responsive, inclusive, participatory and representative decision-making at all levels

Environmental sustainability criteria embedded in policies, plans, processes e.g. procurement, planning etc.

Progress reported against achievement of climate change actions and targets



Deliver sustainability goals through cooperation, finance and data

Multi-stakeholder partnerships that share resources including knowledge, expertise, technology, money

Funding to support work in reducing greenhouse gas emissions and nature restoration

High-quality, timely and reliable data to understand the current and future climate position