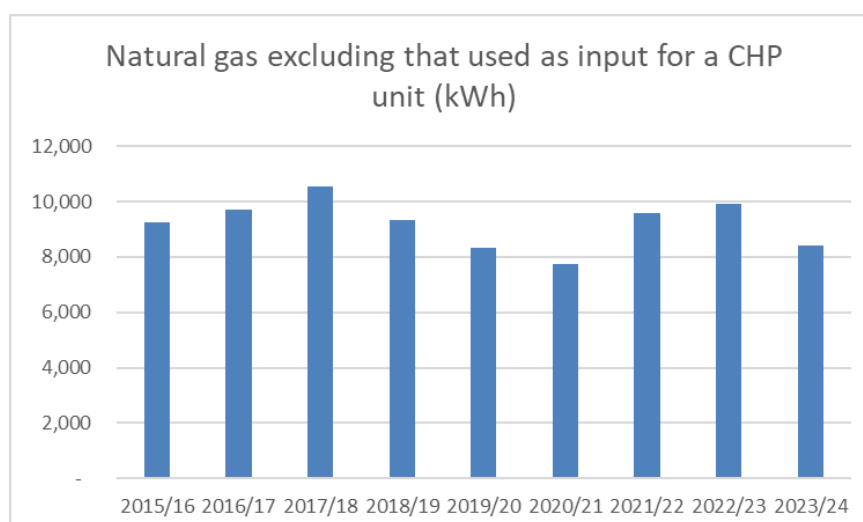# Carbon Management Plan Progress

Cardiff Metropolitan University's commitment to reducing our carbon emissions as much as possible is supported by transparency about our emissions, both current and historical. The following table provides a breakdown of the University's carbon emissions across Scope 1 and Scope 2 from the operational estate, and selected scope 3 emissions categories.
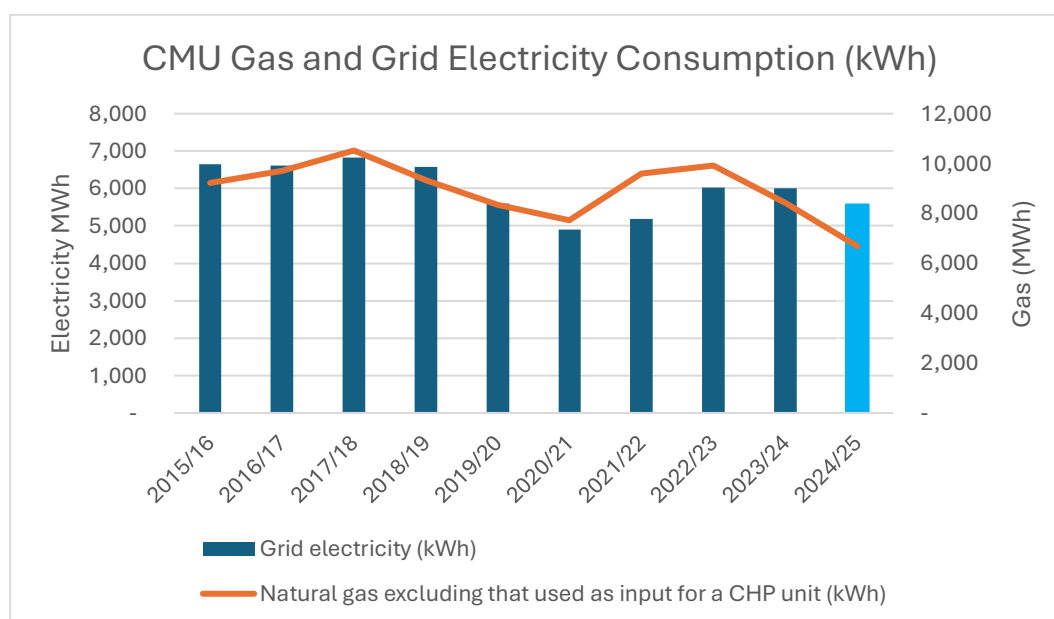
SCOPES 1,2 & 3

Area	Baseline 2021/22	2022/23	2023/24	2030 Target
Scope 1	1.700	1.841	1.541	Net zero by 2030
Scope 2	1.005	1.248	1.244	Net zero by 2030
Scope 3	7.039	10.266	16.112	30% Carbon emission reduction by 2030

In 2023/2024 the university has managed to significantly reduce its emissions from gas. This is largely due to the review of the University's Thermal Comfort Policy and our *Halve the Half* initiative which has tackled energy use out of core operating hours. By analysing half-hourly meter data and adjusting building operations, the project has delivered major environmental and financial savings, working within existing maintenance budgets and with minimal capital investment. This illustrates a significant improvement in carbon emitted per head delivered via the energy efficiency improvement programmes, the reduction in the carbon intensity of the grid and improved awareness among our staff and students as to how efficiently we use our space and our buildings.

Natural gas excluding that used as input for a CHP unit (kWh)

Furthermore, an early analysis of the last academic year (2024/2025) shows that compared to the prior academic year (2023/2024), we achieved:

- 14.59% reduction in energy emissions
- £702,000 in energy cost savings compared to forecast
- £1.07 million in energy and water cost savings compared to the prior academic year
- 20.7% less gas, 6.9% less electricity, and 11.3% less water used
- 2.19 gigawatt (GWh) hours of energy saved
- 9,776 cubic metres of water saved

Our scope 3 emissions are calculated using carbon emissions factors published by the UK Government and our Higher Education Statistics Agency (HESA) data. The selected scope 3 emissions are from the University's water supply, waste, procurement, staff and students commuting and business travel emissions (primarily from air travel). These are the most significant categories for the University's scope 3 emissions, as determined in our 2024-2030 Carbon Management Plan, and are also the categories where we hold sufficient data for meaningful emissions calculations. The categories not included in this table are emissions from residential halls both internal and external and emissions from students travelling from home. In the future, we hope to calculate and include these emissions sources in our yearly progress reporting.

SCOPE 3 BREAKDOWN

Area	Baseline	Baseline Year	Target	Progress 22/23	Progress 23/24
Wastewater Treatment E3CEWWTT	19.040	2021/22	10% reduction in tC02e	15.641	15.386
Water Supply (inc. Residential) E3CEWST	10.979	2021/22	10% reduction in tC02e	14.379	13.257
Waste (inc construction & residential) E3CEWT	13.150	2021/22	Zero waste to landfill and recycle 70% of waste. 5% reduction in tC02e	15.317	15.195
Business Travel – staff & students	66.13	2021/22	Reduction of 5% in carbon emissions tC02e	471.110	782.700
Staff Commuting	362.90	2021/22	Reduce staff single occupancy car journeys to Cardiff met and the dependency on vehicles to support its activity by 5%	2783.73	709.18
Student Commuting	1532.40	2021/22	Reduction of 5% in carbon	37556.99	2745.24

			emissions tC02e		
Procurement (supply chain)	17196.70	2021/22	Reduction of 5% in carbon emissions tC02e associated with purchased goods and services	13348.620	14,526.635

Cardiff Metropolitan University will continue to identify and prioritise projects that deliver carbon savings. For scope 1 and 2, we will continue to reduce the overall energy consumption from our estate by prioritising and investing in planned building refurbishments and long-term maintenance projects that deliver energy and carbon savings. For scope 3, we will continue our work on sustainable procurement; promote and incentivise sustainable travel for both staff and students and build positive sustainable behaviours through creative engagement activities.