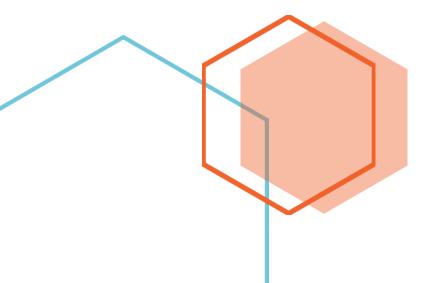


New College Swindon

Energy and Carbon Footprint Report 2019-2020

This report outlines the gas and electricity consumption, with associated carbon footprint, of both our North Star and Queens Drive Campus covering the period 1st August 2019 – 31st July 2020. The report also outlines our energy reduction strategies in place.



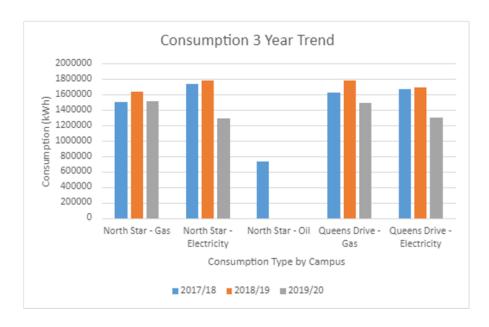


Queens Drive Campus Greenhouse gas emissions and energy use data for the period 1 August 2019 - 31 July 2020 - UK Energy consumption break down (kWh): Gas 1,493,177 Electricity 1,296,997 Scope 1 emissions (metric tonnes CO2e) Gas 275 Scope 2 emissions (metric tonnes CO2e) Electricity (Location-Based Reporting) 302 Scope 3 emissions (metric tonnes CO2e) Scope 3 emissions not calculated Total gross emissions (metric tonnes CO2e) 577 **Intensity Ratio Staff Numbers** 440 Total Emissions (tonnes CO2e) 577 Intensity Ratio (tonnes CO2e / staff number) 1.31

New	Colle	ege	Swin	idon

North Star Campus	
Greenhouse gas emissions and energy use data for the period July 2020	1August 2019 - 31
Energy consumption break down (kWh):	
Gas	1,514,287
Electricity	1,290,597
Scope 1 emissions (metric tonnes CO2e)	
Gas	278
Scope 2 emissions (metric tonnes CO2e)	
Electricity (Location-Based Reporting)	301
Scope 3 emissions (metric tonnes CO2e)	
Scope 3 emissions not calculated	
Total gross emissions (metric tonnes CO2e)	579
Intensity Datie	
Intensity Ratio	
Staff numbers	320
Total emissions (tonnes CO2e)	579
Intensity Ratio (tonnes CO2e / staff number)	1.80

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Measures taken to improve energy efficiency

- LED lighting internal and external replacements 95% completed
- Decarbonisation of heating survey in place to be completed March 2022
- Inefficient boilers replaced with energy saving boilers 70% completed
- Insulation added to roofing roofs identified in 19-20 were completed
- Sensors added to rooms to reduce lighting costs 30% completed
- Inverter pumps (energy efficient pumps) have been installed where identified
- Thermostatic valves and the BMS system updated; giving more finite control of whole system – where identified
- Windows replacement project in place to improve insulation
- College cars changed to more efficient models
- Increased online meetings, reducing need for business travel
- management across both campuses
- Plant room upgrades across all sites
- Photovoltaic panels installed at Queens Drive Campus

Quantification and Reporting Methodologies

We have used the guidance included in the <u>Streamlined Energy and Carbon Reporting for College Corporations</u>. We have also used the GHG Reporting Protocol – Corporate Standard and have used the 2020 UK Government's Conversion Factors for Company Reporting. For Scope 2 emissions, emissions from location based reporting were used rather than the emissions provided from our current energy supplier. Scope 3 emissions, including staff and student transport, waste, water, and financial investments, were not calculated in this report but the intention is to calculate these emissions over time.

Also omitted are Scope 1 emissions from owned vehicles but we seek to collect and report this data over time.