

Scope 3 Carbon Emissions Report 2017/18

Scope 3 emissions are those emissions that arise from the indirect activities of an organisation. 2017/18 is the fifth year that Nottingham Trent University (NTU) has collated its Scope 3 emissions. Scope 1 and 2 carbon emissions are collated separately. Carbon is abbreviated to tCO₂e (tonnes of Carbon Dioxide equivalent) throughout this document.

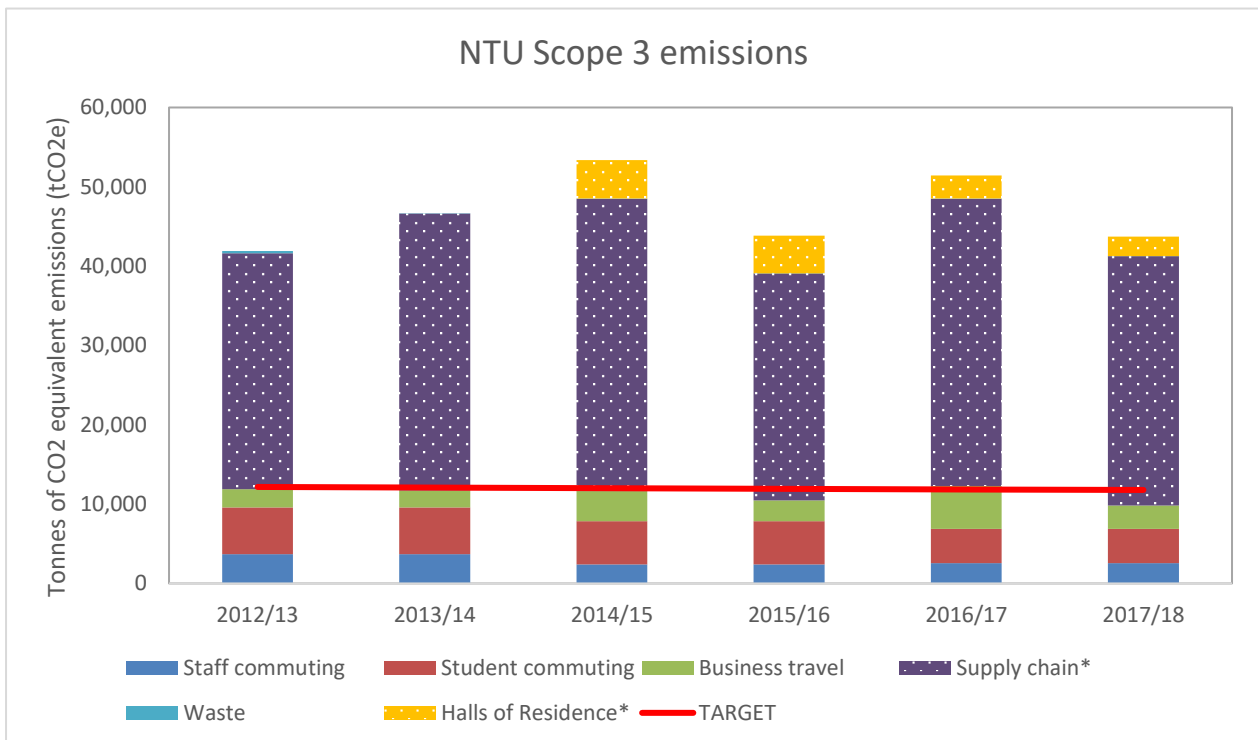
Target

NTU has set itself a Scope 3 target of a 5% reduction from 2012/13 by 2020/21, as stated on NTU's Sustainability website.

Data Sources

Type of emissions	Source of data	Method of calculation
Business travel	Expenses system and University travel agents	Mileage statistics converted to CO ₂ e.
Staff and student commuting	Bi-annual travel survey	Sample travel diary data uplifted for population and whole academic year.
Supply chain emissions	Finance department	Commodity code spend data converted to CO ₂ e.
Waste management	Waste contractor	Composition and disposal method data converted to CO ₂ e.
Externally managed halls of residence	Provided by NTU Energy Team	Energy consumption data converted to CO ₂ e.

Summary Scope 3 Footprint 2017/18 against 5% reduction target:



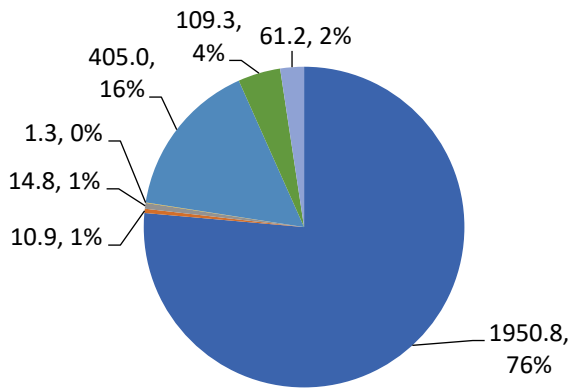
*Not included in original target due to data limitations

Commuting

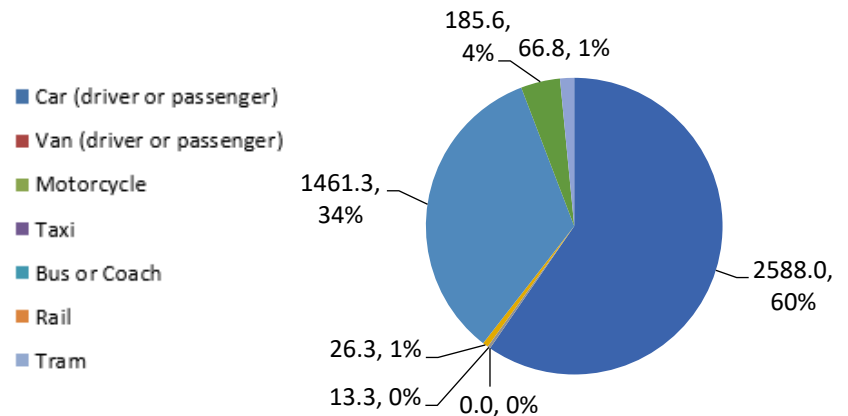
Car travel makes up the majority of the NTU commuting footprint. The proportion of car emissions is smaller for the student population as they have a lower proportion of car ownership compared to members of staff.

Mode of Transport	tCO2e		
	Staff	Students	Combined
Car (driver or passenger)	1,950.8	2,588.0	4,538.8
Van (driver or passenger)	10.9	0.0	10.9
Motorcycle	14.8	13.30	28.1
Taxi	1.30	26.3	27.6
Bus or Coach	405.0	1461.3	1866.3
Rail	109.3	185.6	294.9
Tram	61.2	66.8	128.0

Staff Commuting



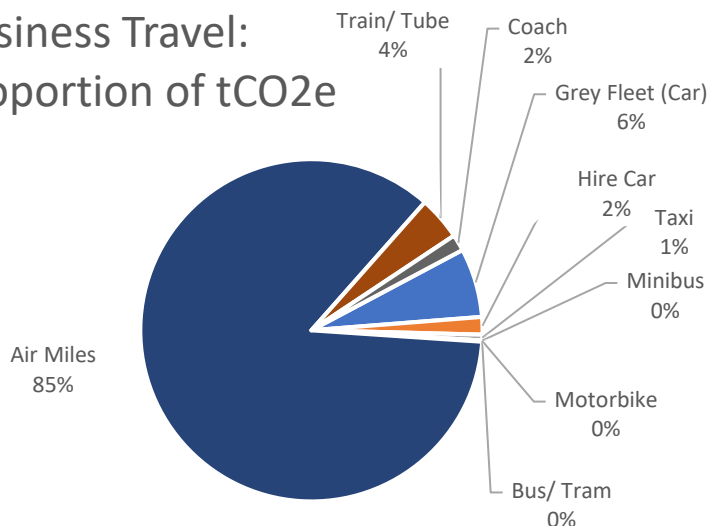
Student Commuting



Business Travel

Air travel for the year 2017/18 accounts for 85% of all University business travel emissions. This data includes all domestic, short and long haul flights. Business Travel Air Travel includes data from both staff and student flights.

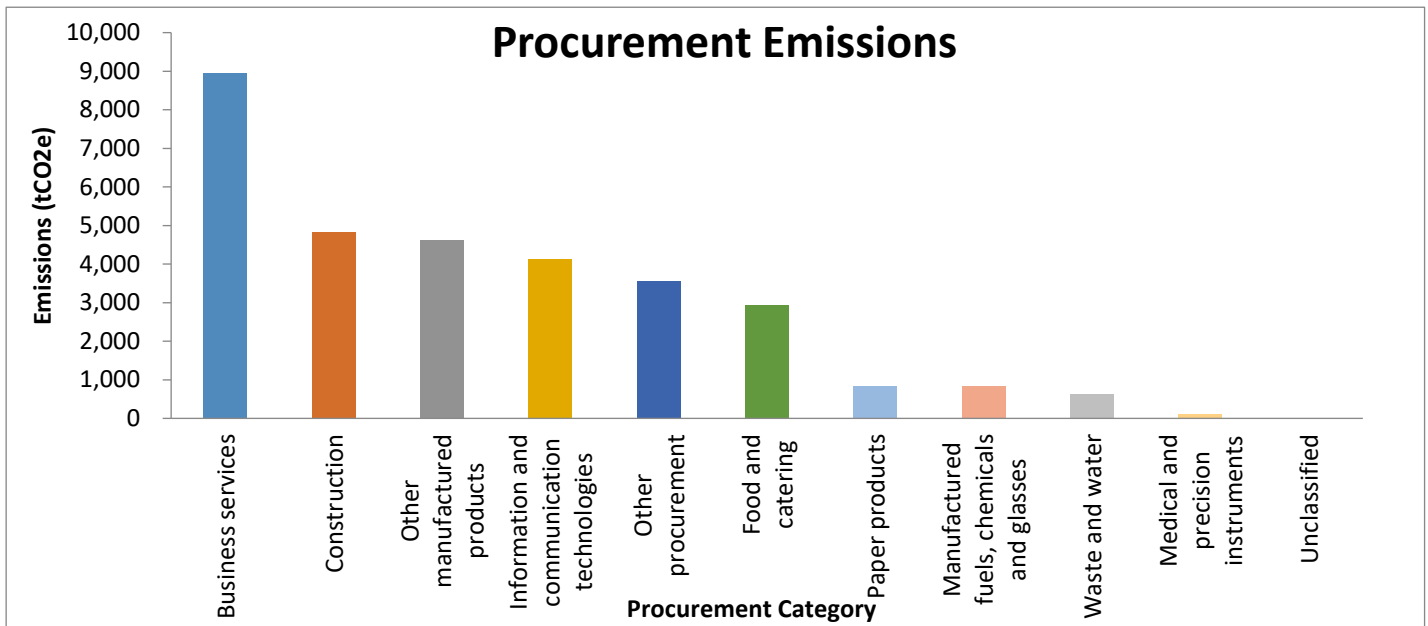
Business Travel: Proportion of tCO2e



Transport	t CO2e
Grey Fleet (Car)	190.66
Hire Car	48
Taxi	16.06
Minibus	0
Motorbike	2
Bus/ Tram	0.92
Air Miles	2496.98
Train/ Tube	120.69
Coach	45.32

Supply Chain

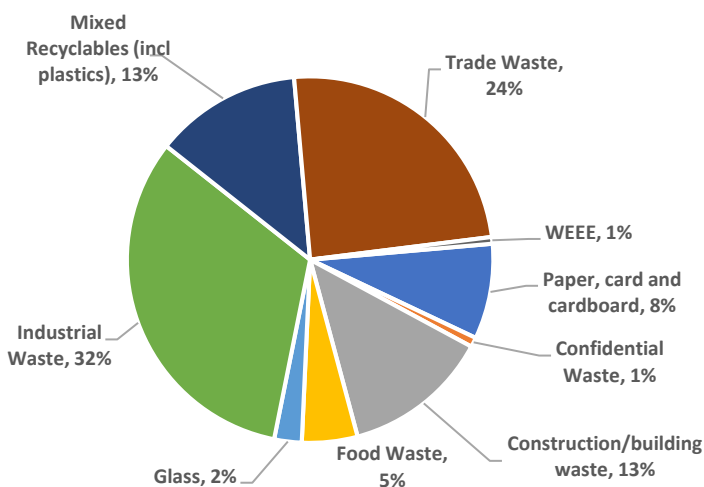
During 2017/18, approximately £69m was spent on goods and services by the University. This spend can be broadly split into 10 categories and each given a carbon conversion factor. The data excludes business travel and energy costs to avoid double counting. The results can be seen below.



Waste

In 2017/18, NTU produced approximately 1.435 tonnes of waste, accounting for 23.4 tCO2e. Approximately 26% of our waste is segregated onsite. Our waste contractor further segregates this, resulting in approximately 98% of our waste being diverted from landfill.

Waste: Proportion of tCO2e 2017-18



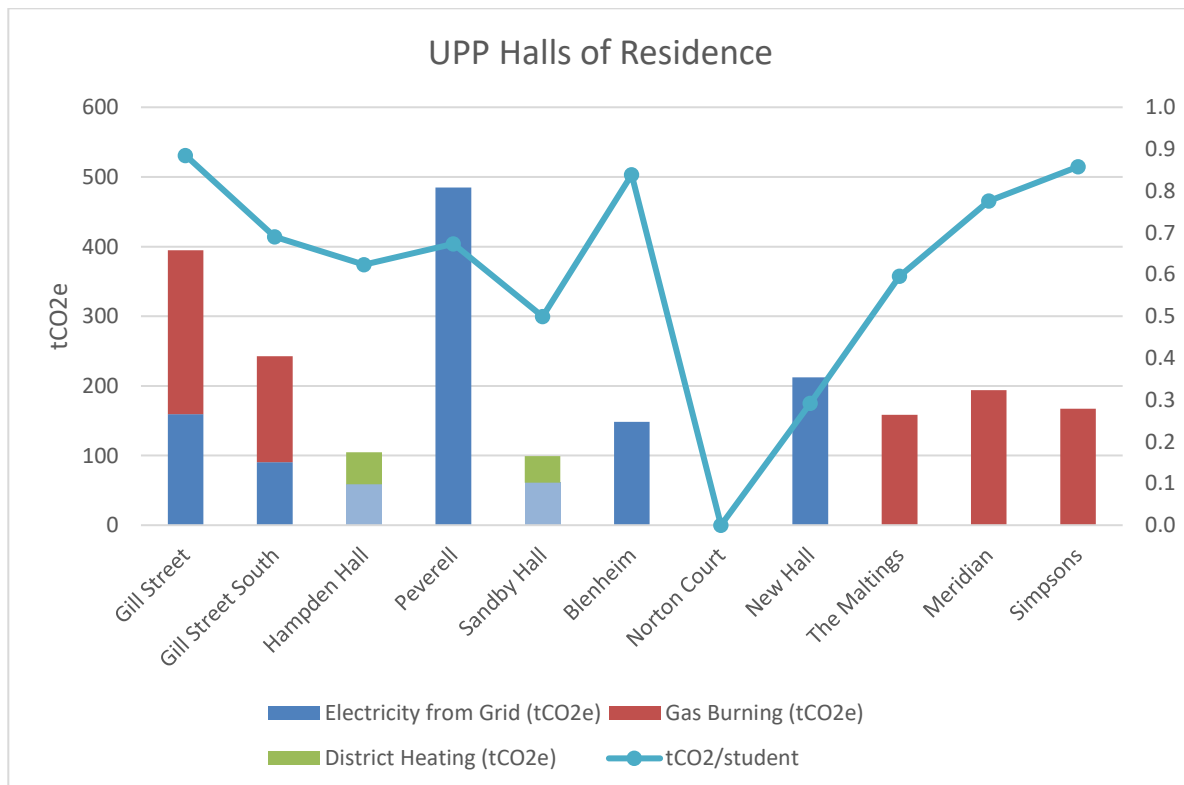
Waste Stream	tCO2e
Paper, card and cardboard	1.97
Confidential Waste	0.20
Construction/building waste	3.03
Food Waste	1.15
Glass	0.57
Industrial Waste	7.61
Mixed Recyclables (incl plastics)	3.03
Trade Waste	5.72
WEEE	0.14
Total	23.42

Externally Managed Halls of Residence

University Partnerships Programme (UPP) run the majority of NTU's Halls of Residence, coming to a current total of 4402 beds. The halls' carbon footprints vary according to their size and the energy sources used. Three halls are connected to the Nottingham District Heating Network. Peverell, Blenheim and Norton Court Halls run on electricity only. Please note that Blenheim and Norton Court residences utilities infrastructure is managed independently of NTU and data could not be gathered for 17/18.

Location	No of Beds	Electricity from Grid (tCO2e)	Gas Burning (tCO2e)	District Heating (tCO2e)
Byron	559	120	-	117
Gill Street	446	159	235	-
Gill Street South	352	91	152	-
Hampden Hall	168	59	-	46
Peverell	720	485	-	-
Sandby Hall	199	61	-	38
Blenheim	177	148	-	-
Norton Court	312	0*	-	-
New Hall	727	212	0*	-
The Maltings	266	0*	158	-
Meridian	250	0*	194	-
Simpsons	226	0*	167	-
Total for UPP Halls	4,402	1,335	907	202

*Data missing



*Gaps denote missing data