

# Scope 1 + 2

Activity	Scope	2017	2016	2015
Direct emissions	Scope 1	39,645	39,051	35,869
Indirect emissions from energy	Scope 2	71,879	82,153	89,375
<b>Total gross location based emissions</b>	<b>Scope 1 + 2</b>	<b>111,524</b>	<b>121,204</b>	<b>125,244</b>
Gross Carbon intensity measure (per £m turnover)		116.84	136.51	149.86
%age change from previous year		-14.41%	-8.91%	-10.7%
Renewable energy		298	380	464
Remaining market based emissions	Scope 1 + 2	111,226	120,824	124,780
Net Carbon intensity measure (per £m turnover)		116.53	136.08	149.30

## ECC15, ECC52

### Scope 1 + 2 emissions including breakdown of scope 1 emissions categories

Activity	Scope	2017		2016		2015	
		Carbon (tonnes)	Units (m <sup>3</sup> /tonnes/Mw)	Carbon (tonnes)	Units (m <sup>3</sup> /tonnes/Mw)	Carbon (tonnes)	Units (m <sup>3</sup> /tonnes/Mw)
Transport	Scope 1	22,134	8,289 m <sup>3</sup>	20,979	7,775 m <sup>3</sup>	18,544	6,760 m <sup>3</sup>
Refrigeration	Scope 1	7,222	2.1 tonnes	6,041	1.8 tonnes	4,360	2.7 tonnes
Heating/Generation	Scope 1	10,289	55,870 Mw	12,031	65,388 Mw	12,965	70,290 Mw
Electricity	Scope 2	71,879	204,457 Mw	82,153	199,376 Mw	89,375	193,373 Mw
<b>Total gross location based emissions</b>	<b>Scope 1 + 2</b>	<b>111,524</b>		<b>121,204</b>		<b>125,244</b>	
Carbon intensity measure (per £m turnover)		116.84		136.51		149.86	
%age change from previous year		-14.41%		-8.91%		-10.7%	
Renewable energy		298	849 Mw	380	923 Mw	464	1,012 Mw
Remaining net market based emissions	Scope 1 + 2	111,226		120,824		124,780	
Net Carbon intensity measure (per £m turnover)		116.53		136.08		149.30	

## ECC 49 - Scope 3 emissions split by category

Activity	Scope	2017		2016		2015	
		Carbon (tonnes)	Units (m <sup>3</sup> /tonnes/Mw)	Carbon (tonnes)	Units (m <sup>3</sup> /tonnes/Mw)	Carbon (tonnes)	Units (m <sup>3</sup> /tonnes/Mw)
Electricity Transmission & Distribution Losses	Scope 3	6,693	203,608 Mw	7,396	198,453 Mw	7,340	192,360 Mw
Waste	Scope 3	3,048	48,772 tonnes	2,475	46,232 tonnes	3,117	44,362 tonnes
Hazardous waste	Scope 3	6.7	305 tonnes	5	232 tonnes	0.2	6.75 tonnes
Water	Scope 3	108	315,271 m <sup>3</sup>	98	284,590 m <sup>3</sup>	88	255,397 m <sup>3</sup>
Effluent	Scope 3	181	255,778 m <sup>3</sup>	134	189,051 m <sup>3</sup>	129	181,685 m <sup>3</sup>
Business travel	Scope 3	408		226		No data	
Total gross scope 3 emissions	Scope 3	10,445		10,334		10,674	
Carbon intensity measure (per £m turnover)		10.94		11.64		12.77	