

Our carbon footprint in the UK

2014 – 2018



	Unit	2014	2015	2016	2017	2018
Location-based carbon footprint (scope 1 and 2) ¹	tonnes CO ₂ e	237,069	209,043	214,350	216,801	180,789
Market-based carbon footprint (scope 1 and 2) ¹	tonnes CO ₂ e	303,055	252,640	258,071	172,526	36,320

Gross carbon footprint overview

	Unit	2014	2015	2016	2017	2018
Location-based carbon footprint (scope 1 and 2)	tonnes CO ₂ e	237,069	209,043	214,350	216,801	180,789
Location-based CO ₂ e/Revenue generating unit	kg CO ₂ e	18.95	16.42	16.44	16.21	13.23
Location-based CO ₂ e/£m revenue	tonnes CO ₂ e	56.26	47.95	47.83	47.15	38.00
Location-based CO ₂ e/Employee (headcount, year end)	tonnes CO ₂ e	17.77	15.54	16.01	16.80	15.17
Location-based CO ₂ e/TB Data ²	tonnes CO ₂ e	0.05	0.03	0.03	0.02	0.01

	Unit	2014	2015	2016	2017	2018
Location-based carbon footprint (scope 1, 2 and 3)	tonnes CO ₂ e	691,320	598,116	606,460	612,586	497,948
Location-based CO ₂ e/Revenue generating unit	kgCO ₂ e	55.25	46.98	46.52	45.81	36.43
Location-based CO ₂ e/£m revenue	tonnes CO ₂ e	164.06	137.20	135.33	133.21	104.66
Location-based CO ₂ e/Employee (headcount, year end)	tonnes CO ₂ e	51.82	44.46	45.29	47.47	41.79
Location-based CO ₂ e/TB Data ²	tonnes CO ₂ e	0.16	0.09	0.08	0.05	0.03

Breakdown

	Unit	2014	2015	2016	2017	2018
Scope 1 emissions (direct)	tonnes CO ₂ e	23,893	25,782	28,609	32,717	35,268
Static combustion (diesel, gas and gas oil)	tonnes CO ₂ e	3,165	2,987	2,844	3,159	4,339
Company vehicles ³	tonnes CO ₂ e	13,601	11,430	12,135	12,786	11,597
Fugitive emissions	tonnes CO ₂ e	7,127	11,365	13,630	16,772	19,332
Scope 2 location-based emissions (indirect)	tonnes CO ₂ e	213,176	183,261	185,741	184,084	145,521
Electricity	tonnes CO ₂ e	213,176	183,261	185,741	184,084	145,521
Scope 2 market-based emissions (indirect)	tonnes CO ₂ e	279,162	226,858	229,462	139,809	1,052
Electricity	tonnes CO ₂ e	279,162	226,858	229,462	139,809	1,052
Scope 3 emissions (other indirect)	tonnes CO ₂ e	454,251	389,073	392,110	395,785	317,159
Customer premise equipment ¹	tonnes CO ₂ e	427,910	365,253	364,464	362,676	290,586
Normalised customer premise equipment	kgCO ₂ e/cpe	44.0	37.2	36.6	35.7	27.4
Modems	tonnes CO ₂ e	152,655	137,960	146,117	153,516	126,791
Emissions per modem	kgCO ₂ e/modem unit	34.3	30.0	30.4	30.6	24.5
Set-top-boxes	tonnes CO ₂ e	275,255	227,292	218,347	209,160	163,795
Emission per box	kgCO ₂ e/set-top-box unit	52.2	43.4	42.4	40.6	31.8
Air travel ⁴	tonnes CO ₂ e	2,755	5,482	4,351	3,754	4,708
Normalised air travel	kgCO ₂ e/employee (headcount, year end)	207	408	325	291	395
Land travel ⁵	tonnes CO ₂ e	8,112	3,874	5,890	6,130	6,304
Normalised land travel	kgCO ₂ e/employee (headcount, year end)	608	288	440	475	529
Third party service and install ⁶	tonnes CO ₂ e	15,116	14,192	17,113	22,894	15,256
Recycling of customer premise equipment	tonnes CO ₂ e	30	16	12	35	38
Waste	tonnes CO ₂ e	282	212	238	253	222
Water	tonnes CO ₂ e	46	44	42	43	45

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Market-based carbon footprint overview

	Unit	2014	2015	2016	2017	2018
Market-based carbon footprint (scope 1 and 2)	tonnes CO ₂ e	303,054	252,640	258,072	172,526	36,320
Market-based CO ₂ e/Revenue generating unit	kgCO ₂ e	24.22	19.84	19.80	12.90	2.66
Market-based CO ₂ e/£m revenue	tonnes CO ₂ e	71.92	57.95	57.59	37.52	7.63
Market-based CO ₂ e/Employee (head count, year end)	tonnes CO ₂ e	22.72	18.78	19.27	13.37	3.05
Market-based CO ₂ e/TB Data ²	kg CO ₂ e	69.24	39.70	32.31	13.33	2.07

	Unit	2014	2015	2016	2017	2018
Market-based carbon footprint (scope 1, 2 and 3)	tonnes CO ₂ e	756,007	639,130	648,131	566,542	351,260
Market-based CO ₂ e/Revenue generating unit	kgCO ₂ e	60.42	50.20	49.72	42.37	25.70
Market-based CO ₂ e/£m revenue	tonnes CO ₂ e	179.41	146.60	144.62	123.20	73.83
Market-based CO ₂ e/Employee (headcount, year end)	tonnes CO ₂ e	56.67	47.51	48.40	43.90	29.48
Market-based CO ₂ e/TB Data ²	kg CO ₂ e	172.72	100.43	81.15	43.78	20.02

Other

	Unit	2014	2015	2016	2017	2018
Water	m ³	133,674	127,168	122,507	125,885	130,496

Business-adjusted KPIs

	Unit	2014	2015	2016	2017	2018
Business information	Revenue generating unit	12,513,500	12,732,400	13,035,900	13,371,600	13,667,800
	Revenue (£m)	4,213.9	4,359.6	4,481.5	4,598.5	4,757.6
	Employees (headcount, year end)	13,340	13,452	13,391	12,905	11,916

¹ All emission factors are based on Defra's Greenhouse gas reporting conversion factors. 2018 figures are based on Defra's 2018 conversion factors (<https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2018>)

² This intensity metric has been aligned with Liberty Global and therefore report our electricity consumption and also our net emissions per terabyte of data consumed. The figures for 'terabytes (TB) of data usage' are based on estimated internet protocol (IP) based traffic. We plan to collect the actual data going forward. TB of data usage excludes services not offered over IP-based technology and therefore excludes data usage in connection with cable television, digital television, video-on-demand, asymmetric digital subscriber line and time-division multiplexing licensed capacity. Over time, we expect that all of our data usage will migrate to IP-based technology.

³ Company vehicles includes company owned and leased cars and vans only. Fuel used in private vehicles that is covered by fuel card, cash allowance or reimbursed by the company are included in Scope 3 emissions

⁴ Data only accounts for flights booked through our booking portal, approx 90%.

⁵ Business land travel includes travel in rental cars, taxis, rail and public transportation. In addition, business land travel also includes travel in employee owned or leased vehicles for business purposes. Rail purchased outside of our central booking system and claimed back through expenses is also included

⁶ Data was estimated for one contractor in 2016
In 2017 fuel used for network expansion was included for the first time. This explains the increase in third party fuel consumed between 2016 and 2017. Data was estimated for five of our 27 contractors in 2017. For 2018, third party fuel data has been captured in the following ways:

- Field service and install is based on actual fuel data provided by our 5 partners
- Logistics is based on actual data provided by our single logistics partner
- Network expansion data is based on a new estimation approach which will be used for future years

n/a: We do not have good enough data available

All data in this document covers the period January 1 to December 31 unless otherwise stated.

For more information on our environmental reporting criteria, please visit www.libertyglobal.com/cr/cr-report-2015.html

* 2014 is the baseline year for the 2020 goals.

Our carbon footprint in Ireland

2014 – 2018



	Unit	2014	2015	2016	2017	2018
Location-based carbon footprint (scope 1 and 2) ¹	tonnes CO ₂ e	11,500	11,611	11,671	12,936	12,392
Market-based carbon footprint (scope 1 and 2) ¹	tonnes CO ₂ e	8,434	1,490	2,026	1,568	1,438

Gross carbon footprint overview

	Unit	2014	2015	2016	2017	2018
Location-based carbon footprint (scope 1 and 2)	tonnes CO ₂ e	11,500	11,611	11,671	12,936	12,392
Location-based CO ₂ e/Revenue generating unit	kg CO ₂ e	10.35	10.61	11.43	12.67	12.40
Location-based CO ₂ e/£m revenue	tonnes CO ₂ e	40.64	44.86	35.96	35.47	31.56
Location-based CO ₂ e/Employee (headcount, year end)	tonnes CO ₂ e	13.69	17.20	16.39	17.79	11.62
Location-based CO ₂ e/TB Data ²	tonnes CO ₂ e	0.03	0.03	0.02	0.01	0.01

	Unit	2014	2015	2016	2017	2018
Location-based carbon footprint (scope 1, 2 and 3)	tonnes CO ₂ e	13,970	15,738	15,576	16,145	16,809
Location-based CO ₂ e/revenue generating unit	kgCO ₂ e	13	14	15	16	17
Location-based CO ₂ e/£m revenue	tonnes CO ₂ e	49.36	60.81	47.99	44.27	42.80
Location-based CO ₂ e/Employee (headcount, year end)	tonnes CO ₂ e	16.63	23.32	21.88	22.21	15.77
Location-based CO ₂ e/TB Data ²	tonnes CO ₂ e	0.04	0.04	0.02	0.02	0.01

Breakdown

	Unit	2014	2015	2016	2017	2018
Scope 1 emissions (direct)	tonnes CO ₂ e	1,521	1,490	1,150	1,568	1,438
Static combustion (diesel, gas and gas oil)	tonnes CO ₂ e	45	46	168	155	178
Company vehicles ³	tonnes CO ₂ e	1,318	1,168	860	965	905
Fugitive emissions	tonnes CO ₂ e	159	276	122	449	354
Scope 2 location-based emissions (indirect)	tonnes CO ₂ e	9,979	10,121	10,521	11,368	10,954
Electricity	tonnes CO ₂ e	9,979	10,121	10,521	11,368	10,954
Scope 2 market-based emissions (indirect)	tonnes CO ₂ e	6,913	0	876	0	0
Electricity	tonnes CO ₂ e	6,913	0	876	0	0
Scope 3 emissions other indirect)	tonnes CO ₂ e	2,470	4,127	3,905	3,209	4,417
Customer premise equipment ⁴	tonnes CO ₂ e	-	-	-	-	-
Normalised customer premise equipment	kgCO ₂ e/cpe	-	-	-	-	-
Modems ⁴	tonnes CO ₂ e	-	-	-	-	-
Emissions per modem	kgCO ₂ e/modem unit	-	-	-	-	-
Set-top-boxes ⁴	tonnes CO ₂ e	-	-	-	-	-
Emission per box	kgCO ₂ e/set-top-box unit	-	-	-	-	-
Air travel ⁵	tonnes CO ₂ e	474	703	84	111	13
Normalised air travel	kgCO ₂ e/employee (headcount, year end)	564	1,041	118	153	12
Land travel ⁶	tonnes CO ₂ e	509	617	612	267	382
Normalised land travel	kgCO ₂ e/employee (headcount, year end)	606	914	860	367	358
Third party service and install	tonnes CO ₂ e	1,444	2,776	3,174	2,771	3,945
Recycling of customer premise equipment	tonnes CO ₂ e	1	3	1	1	1
Waste	tonnes CO ₂ e	39	25	31	56	72
Water	tonnes CO ₂ e	3	3	3	3	4

Our carbon footprint in Ireland

2014 – 2018



Market-based carbon footprint overview

	Unit	2014	2015	2016	2017	2018
Market-based carbon footprint (scope 1 and 2)	tonnes CO ₂ e	8,434	1,490	2,026	1,568	1,438
Market-based CO ₂ e/Revenue generating unit	kgCO ₂ e	7.59	1.36	1.98	1.54	1.44
Market-based CO ₂ e/£m revenue	tonnes CO ₂ e	29.80	5.76	6.24	4.30	3.66
Market-based CO ₂ e/Employee (head count, year end)	tonnes CO ₂ e	10.04	2.21	2.85	2.16	1.35
Market-based CO ₂ e/TB Data ²	kg CO ₂ e	23.82	3.75	3.22	1.66	1.15

	Unit	2014	2015	2016	2017	2018
Market-based carbon footprint (scope 1, 2 and 3)	tonnes CO ₂ e	10,680	5,286	5,891	4,725	5,750
Market-based CO ₂ e/revenue generating unit	kgCO ₂ e	9.61	4.83	5.77	4.63	5.76
Market-based CO ₂ e/£m revenue	tonnes CO ₂ e	37.74	20.43	18.15	12.96	14.64
Market-based CO ₂ e/Employee (headcount, year end)	tonnes CO ₂ e	12.71	7.83	8.27	6.50	5.39
Market-based CO ₂ e/TB Data ²	kg CO ₂ e	30.16	13.31	9.38	4.99	4.59

Other

	Unit	2014	2015	2016	2017	2018
Water	m ³	9,509	8,031	9,046	7,760	12,374

Business-adjusted KPIs

	Unit	2014	2015	2016	2017	2018
Business information	Revenue generating unit	1,111,200	1,094,800	1,020,700	1,021,200	999,100
	Revenue (£m)	283	258.8	324.6	364.7	392.7
	Employees (headcount, year end)	840	675	712	727	1,066

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