Our carbon footprint in the UK

2014 – 2020

	Unit	2014	2015	2016	2017	2018	2019	2020
Location-based carbon footprint (scope 1 and 2)[1]	tonnes CO_2e	282,147	268,737	248,598	219,138	184,375	157,845	147,628
Market-based carbon footprint (scope 1 and 2)[1]	tonnes CO_2e	305,601	254,665	260,360	174,863	39,906	30,905	35,070

Location-based carbon footprint overview

	Unit	2014	2015	2016	2017	2018	2019	2020
Location-based carbon footprint (scope 1 and 2)	tonnes CO_2e	282,147	268,737	248,598	219,138	184,375	157,845	147,628
Location-based CO_2e/Revenue generating unit	kg CO_2e	22.55	21.11	19.07	16.39	13.49	11.64	11.03
Location-based CO_2e/£m revenue	tonnes CO_2e	66.96	61.64	55.47	47.65	38.75	33.12	31.21
Location-based CO_2e/Employee (headcount, year end)	tonnes CO_2e	21.15	19.98	18.56	16.98	15.47	14.18	12.06
Location-based CO_2e/TB Data[2]	tonnes CO_2e	0.06	0.04	0.03	0.02	0.01	0.01	0.005

	Unit	2014	2015	2016	2017	2018	2019	2020
Location-based carbon footprint (scope 1, 2 and 3)	tonnes CO_2e	736,397	657,810	640,708	614,922	501,534	441,824	394,384
Location-based CO_2e/Revenue generating unit	kgCO_2e	58.85	51.66	49.15	45.99	36.69	32.57	29.47
Location-based CO_2e/£m revenue	tonnes CO_2e	174.75	150.89	142.97	133.72	105.42	92.71	83.37
Location-based CO_2e/Employee (headcount, year end)	tonnes CO_2e	55.20	48.90	47.85	47.65	42.09	39.68	32.21
Location-based CO_2e/TB Data[2]	tonnes CO_2e	0.17	0.10	0.07	0.06	0.04	0.03	0.01

Breakdown

	Unit	2014	2015	2016	2017	2018	2019	2020
Scope 1 emissions (direct)	tonnes CO_2e	26,439	27,807	30,898	35,054	38,854	30,905	35,070
Static combustion (diesel, gas and gas oil)	tonnes CO_2e	3,165	2,987	2,844	3,159	4,339	3,394	3,756
Company vehicles[3]	tonnes CO_2e	16,147	13,455	14,424	15,123	15,183	13,349	12,848
Fugitive emissions	tonnes CO_2e	7,127	11,365	13,630	16,772	19,332	14,162	18,466
Scope 2 location-based emissions (indirect)	tonnes CO_2e	255,708	240,930	217,700	184,084	145,521	126,940	112,558
Electricity	tonnes CO_2e	255,708	240,930	217,700	184,084	145,521	126,940	112,558
Scope 2 market-based emissions (indirect)	tonnes CO_2e	279,162	226,858	229,462	139,809	1,052	0	0
Electricity	tonnes CO_2e	279,162	226,858	229,462	139,809	1,052	0	0
Scope 3 emissions (other indirect)	tonnes CO_2e	454,251	389,073	392,110	395,785	317,159	283,979	246,756
Customer premise equipment[1]	tonnes CO_2e	427,910	365,253	364,464	362,676	290,586	258,180	230,435
Normalised customer premise equipment	kgCO_2e/cpe	44.0	37.2	36.6	35.7	27.4	25.1	25.1
Modems	tonnes CO_2e	152,655	137,960	146,117	153,516	126,791	116,434	108,094
Emissions per modem	kgCO_2e/modem unit	34.3	30.0	30.4	30.6	24.5	22.2	22.2
Set-top-boxes	tonnes CO_2e	275,255	227,292	218,347	209,160	163,795	141,747	122,341
Emission per box	kgCO_2e/set-top-box unit	52.2	43.4	42.4	40.6	31.8	28.2	28.2
Air travel[4]	tonnes CO_2e	2,755	5,482	4,351	3,754	4,708	4,351	638
Normalised air travel	kgCO_2e/employee (headcount, year end)	207	408	325	291	395	391	52
Land travel[5]	tonnes CO2e	8,112	3,874	5,890	6,130	6,304	5,367	1,915
Normalised land travel	kgCO_2e/employee (headcount, year end)	608	288	440	475	529	482	156
Third party service and install[6]	tonnes CO_2e	15,116	14,192	17,113	22,894	15,256	15,863	13,617
Recycling of customer premise equipment	tonnes CO_2e	30	16	12	35	38	19	13
Waste	tonnes CO_2e	282	212	238	253	222	162	111
Water	tonnes CO_2e	46	44	42	43	45	37	27

Our carbon footprint in the UK

2014 – 2020

Market-based carbon footprint overview

	Unit	2014	2015	2016	2017	2018	2019	2020
Market-based carbon footprint (scope 1 and 2)	tonnes CO_2e	303,054	252,640	258,072	172,526	36,320	30,905	30,905
Market-based CO_2e/Revenue generating unit	kgCO_2e	24.22	19.84	19.80	12.90	2.66	2.28	2.62
Market-based CO_2e/£m revenue	tonnes CO_2e	71.92	57.95	57.59	37.52	7.63	6.49	7.41
Market-based CO_2e/Employee (head count, year end)	tonnes CO_2e	22.72	18.78	19.27	13.37	3.05	2.78	2.86
Market-based CO_2e/TB Data[2]	kg CO_2e	69.24	39.70	29.19	16.23	2.71	1.84	1.11

	Unit	2014	2015	2016	2017	2018	2019	2020
Market-based carbon footprint (scope 1, 2 and 3)	tonnes CO_2e	756,007	639,130	648,131	566,542	351,260	314,884	281,826
Market-based CO_2e/Revenue generating unit	kgCO_2e	60.42	50.20	49.72	42.37	25.70	23.21	21.06
Market-based CO_2e/£m revenue	tonnes CO_2e	179.41	146.60	144.62	123.20	73.83	66.07	59.58
Market-based CO_2e/Employee (headcount, year end)	tonnes CO_2e	56.67	47.51	48.40	43.90	29.48	28.28	23.02
Market-based CO_2e/TB Data[2]	kg CO_2e	172.72	100.43	73.32	53.28	26.22	18.75	8.89

Other

	Unit	2014	2015	2016	2017	2018	2019	2020
Water	m³	133,674	127,168	122,507	125,885	130,496	106,285	77,923

Business-adjusted KPIs

	Unit	2014	2015	2016	2017	2018	2019	2020
Business information	Revenue generating unit	12,513,500	12,732,400	13,035,900	13,371,600	13,667,800	13,563,900	13,381,300
	Revenue (£m)	4,213.9	4,359.6	4,481.5	4,598.5	4,757.6	4,765.6	4,730.3
	Employees (headcount, year end)	13,340	13,452	13,391	12,905	11,916	11,134	12,243

[1] All emission factors are based on Defra's Greenhouse gas reporting conversion factors. 2020 figures are based on Defra's 2020 conversion factors (https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2020)

[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 internet protocol (IP) based traffic. For 2014 and 2015, the data is estimated. For 2016-2020, the data is based on actuals taken directly from our Cable Modem Termination System (CMTS) traffic data.

[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. 2018 figure has been restated after an error was found in the 2019 assurance process.

[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 2018-2020, 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 an estimation approach implemented for 2018 data

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

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For more information on our environmental reporting criteria, please visit https://www.libertyglobal.com/wp-content/uploads/2020/04/2019-Environemntal-Reporting-Criteria-24-Jan-2020.pdf

Our carbon footprint in Ireland

2014 – 2020

	Unit	2014	2015	2016	2017	2018	2019	2020
Location-based carbon footprint (scope 1 and 2)[1]	tonnes CO_2e	11,500	11,611	11,671	12,936	12,392	11,673	10,829
Market-based carbon footprint (scope 1 and 2)[1]	tonnes CO_2e	8,434	1,490	2,026	1,568	1,438	1,290	997

Location-based carbon footprint overview

	Unit	2014	2015	2016	2017	2018	2019	2020
Location-based carbon footprint (scope 1 and 2)	tonnes CO_2e	11,500	11,611	11,671	12,936	12,392	11,673	10,829
Location-based CO_2e/Revenue generating unit	kg CO_2e	10.35	10.61	11.43	12.67	12.40	11.75	10.91
Location-based CO_2e/£m revenue	tonnes CO_2e	40.64	44.86	35.96	35.47	31.56	28.99	27.19
Location-based CO_2e/Employee (headcount, year end)	tonnes CO_2e	13.69	17.20	16.39	17.79	11.62	12.02	11.68
Location-based CO_2e/TB Data[2]	tonnes CO_2e	0.03	0.03	0.02	0.01	0.01	0.01	0.005

	Unit	2014	2015	2016	2017	2018	2019	2020
Location-based carbon footprint (scope 1, 2 and 3)	tonnes CO_2e	13,970	15,738	15,576	16,145	16,809	16,453	11,663
Location-based CO_2e/revenue generating unit	kgCO_2e	13	14	15	16	17	17	12
Location-based CO_2e/£m revenue	tonnes CO_2e	49.36	60.81	47.99	44.27	42.80	40.86	29.29
Location-based CO_2e/Employee (headcount, year end)	tonnes CO_2e	16.63	23.32	21.88	22.21	15.77	16.94	12.58
Location-based CO_2e/TB Data[2]	tonnes CO_2e	0.04	0.04	0.02	0.02	0.01	0.01	0.01

Breakdown

	Unit	2014	2015	2016	2017	2018	2019	2020
Scope 1 emissions (direct)	tonnes CO_2e	1,521	1,490	1,150	1,568	1,438	1,290	997
Static combustion (diesel, gas and gas oil)	tonnes CO_2e	45	46	168	155	178	46	44
Company vehicles[3]	tonnes CO_2e	1,318	1,168	860	965	905	1,375	715
Fugitive emissions	tonnes CO_2e	159	276	122	449	354	-	238
Scope 2 location-based emissions (indirect)	tonnes CO_2e	9,979	10,121	10,521	11,368	10,954	10,383	9,832
Electricity	tonnes CO_2e	9,979	10,121	10,521	11,368	10,954	10,121	9,832
Scope 2 market-based emissions (indirect)	tonnes CO_2e	6,913	0	876	0	0	0	0
Electricity	tonnes CO_2e	6,913	0	876	0	0	2,003	0
Scope 3 emissions other indirect)	tonnes CO_2e	2,470	4,127	3,905	3,209	4,417	4,780	834
Customer premise equipment [4]	tonnes CO_2e	-	-	-	-	-	-	-
Normalised customer premise equipment	kgCO_2e/cpe	-	-	-	-	-	-	-
Modems [4]	tonnes CO_2e	-	-	-	-	-	-	-
Emissions per modem	kgCO_2e/modem unit	-	-	-	-	-	-	-
Set-top-boxes [4]	tonnes CO_2e	-	-	-	-	-	-	-
Emission per box	kgCO_2e/set-top-box unit	-	-	-	-	-	-	-
Air travel [5]	tonnes CO_2e	474	703	84	111	13	73	11
Normalised air travel	kgCO_2e/employee (headcount, year end)	564	1,041	118	153	12	75	12
Land travel [6]	tonnes CO2e	509	617	612	267	382	762	42
Normalised land travel	kgCO_2e/employee (headcount, year end)	606	914	860	367	358	785	45
Third party service and install	tonnes CO_2e	1,444	2,776	3,174	2,771	3,945	3,944	750
Recycling of customer premise equipment	tonnes CO_2e	1	3	1	1	1	1	1
Waste	tonnes CO_2e	39	25	31	56	72	48	29
Water	tonnes CO_2e	3	3	3	3	4	0	1

Our carbon footprint in Ireland
2014 – 2020

Market-based carbon footprint overview

	Unit	2014	2015	2016	2017	2018	2019	2020
Market-based carbon footprint (scope 1 and 2)	tonnes CO$_2$e	8,434	1,490	2,026	1,568	1,438	1,290	997
Market-based CO$_2$e/Revenue generating unit	kgCO$_2$e	7.59	1.36	1.98	1.54	1.44	1.30	1.00
Market-based CO$_2$e/£m revenue	tonnes CO$_2$e	29.80	5.76	6.24	4.30	3.66	3.20	2.50
Market-based CO$_2$e/Employee (head count, year end)	tonnes CO$_2$e	10.04	2.21	2.85	2.16	1.35	1.33	1.08
Market-based CO$_2$e/TB Data[2]	kg CO$_2$e	23.82	3.75	3.22	1.66	1.15	0.82	0.44

	Unit	2014	2015	2016	2017	2018	2019	2020
Market-based carbon footprint (scope 1, 2 and 3)	tonnes CO$_2$e	10,680	5,286	5,891	4,725	5,750	6,070	1,831
Market-based CO$_2$e/revenue generating unit	kgCO$_2$e	9.61	4.83	5.77	4.63	5.76	6.11	1.84
Market-based CO$_2$e/£m revenue	tonnes CO$_2$e	37.74	20.43	18.15	12.96	14.64	15.07	4.60
Market-based CO$_2$e/Employee (headcount, year end)	tonnes CO$_2$e	12.71	7.83	8.27	6.50	5.39	6.25	1.98
Market-based CO$_2$e/TB Data[2]	kg CO$_2$e	30.16	13.31	9.38	4.99	4.59	3.88	0.80

Other

	Unit	2014	2015	2016	2017	2018	2019	2020
Water	m³	9,509	8,031	9,046	7,760	12,374	1,098	3,507

Business-adjusted KPIs

	Unit	2014	2015	2016	2017	2018	2019	2020
Business information	Revenue generating unit	1,111,200	1,094,800	1,020,700	1,021,200	999,100	993,700	992,500
	Revenue (£m)	283	258.8	324.6	364.7	392.7	402.7	398.2
	Employees (headcount, year end)	840	675	712	727	1066	971	927

[1] All emission factors are based on Defra's Greenhouse gas reporting conversion factors. 2020 figures are based on Defra's 2020 conversion factors (**https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2020**)

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