

Transport for London

Environment Report

Data tables

2009



> Contents

Energy consumption by mode and source	4
CO ₂ emissions by mode.....	6
NO _x and PM ₁₀ emissions by mode	8
Built environment quality indicators.....	10
Waste production and recycling	12
Water consumption	14

> Energy consumption by mode and source

Mode	Total energy consumption (million kWh)				2008/09 Energy source (%)	Notes
	2005/06	2006/07	2007/08	2008/09		
Head office buildings	59	53	56	61	Green tariff electricity (57.3), natural gas (37), grid supplied electricity (5.5), petrol (0.1), LPG (0.1), on-site renewables (0.05)	Includes buildings and fuel for support vehicles. Support vehicles were not reported on in 2005/06
LU	1,220	1,220	1,230	1,240	Grid supplied electricity (79), green tariff electricity (14.6), natural gas (4.5), petrol (0.4), diesel (1.4), fuel oil (0.2)	Includes traction, stations, depots, support fleet, contractor vehicles and LU's back-up power station. Fuel consumption from support fleet and contractor vehicles first reported in 2006/07
London Overground	–	–	22	62	Grid supplied electricity (46.6), natural gas (36.9), diesel (16.5)	Includes traction, stations and depots. Diesel consumption for Gospel Oak – Barking line services
DLR	51	45	48	49	Grid supplied electricity (92.8), natural gas (7.2)	Includes traction, stations and depots. Electricity consumption was estimated in 2005/06
London Tramlink	11	11	11	12	Grid supplied electricity (97.2), natural gas (2.4), diesel (0.4)	Includes traction, stops and depot. Consumption estimated in 2007/08
London Streets	73	92	98	108	Green tariff electricity (84.2), petrol (0.6), diesel (15), LPG (0.1)	Includes street lighting, traffic signals, support fleet and some contractors. Contractor vehicles did not report fuel consumption in 2005/06
Taxis	903	921	949	944	Diesel (97.5), biodiesel (2.5)	–
PHVs	935	969	1,060	1,070	Diesel (60.3), petrol (37), biodiesel (2.5), LPG (0.1)	–
Dial-a-Ride	10	11	12	10	Diesel (91.8), grid supplied electricity (5.5), natural gas (2.7)	Includes vehicle fuel and depots

Mode	Total energy consumption (million kWh)				2008/09 Energy source (%)	Notes
	2005/06	2006/07	2007/08	2008/09		
Victoria Coach Station	2	2	2	2	Green tariff electricity (76.9), natural gas (23.1)	Includes energy for operating the building. It does not include fuel consumption associated with coaches travelling to, or from, it (see bus permits and agreements)
LRS	49	45	49	57	Marine diesel (70.8), ultra low sulphur fuel (26.7), green tariff electricity (1.1), grid supplied electricity (0.9), natural gas (0.6)	Includes fuel from boats using LRS piers and electricity used for piers
Community Safety, Enforcement and Policing	–	0.4	0.3	0.3	Petrol (48.7), diesel (51.3)	Data for 2005/06 included in London Streets
Bus permits and agreements	77	85	95	85	Diesel (100)	Includes the impact of coaches with London Service Permits, for the proportion of their journeys that take place in London. Also includes buses operating under London Local Service Agreements
London bus network	2,350	2,390	2,470	2,560	Diesel (97.1), biodiesel (2.4), grid supplied electricity (0.3), green tariff electricity (0.1)	Includes London Buses, support fleet, bus stops, stations, roadside ticketing machines and shelters. Since 2007/08, emissions factors are fleet weighted so are more accurate
New capital works	–	–	11	20	Diesel (90.9), grid supplied electricity (9), petrol (0.2)	Includes construction works associated with the ELL extension

> CO₂ emissions by mode

Mode	Total CO ₂ emissions (tonnes)				Notes
	2005/06	2006/07	2007/08	2008/09	
Head office buildings	22,900	21,700	23,700	24,800	Includes emissions associated with buildings and support vehicles. Support vehicles were not reported on in 2005/06
LU	633,000	628,000	637,000	642,000	Includes emissions associated with traction, stations, depots, support fleet, contractor vehicles and Greenwich Power Station
London Overground	–	–	8,200	22,600	Includes emissions associated with traction, stations and depots
DLR	25,400	23,400	24,700	25,000	Includes emissions associated with traction, stations and depots
London Tramlink	5,700	5,570	5,570	6,570	Includes emissions associated with traction, stops and depot Figures for 2007/2008 are estimated
London Streets	35,000	39,600	50,300	53,700	Includes street lighting, traffic signals, and vehicles run by London Streets' employees and some contractors. Contractors did not report emissions in 2005/06
Taxis	238,000	243,000	250,000	247,000	–
PHVs	242,000	251,000	275,000	274,000	–
Dial-a-Ride	2,880	3,130	3,330	3,360	Includes emissions from vehicles and depots
Victoria Coach Station	779	681	674	1,080	Only includes emissions from operating the building, does not include coaches travelling to or from it
LRS	13,500	12,600	13,700	15,900	Includes emissions from LRS piers and boats that use them
Community Safety, Enforcement and Policing	–	97	65	84	Includes emissions from vehicles. Transport Policing and Enforcement directorate was included in Streets data for 2005/06
Bus permits and agreements	20,400	22,400	25,100	22,300	Includes emissions from coaches with London Service Permits, for the portion of their journeys that take place in London. Also includes emissions from buses operating under London Local Service Agreements

Mode	Total CO ₂ emissions (tonnes)				Notes
	2005/06	2006/07	2007/08	2008/09	
London bus network	621,000	624,000	646,000	657,000	Includes emissions from London Buses, stations, bus stops, ticketing machines and shelters. Since 2007/2008, CO ₂ emissions per unit of biodiesel have been assumed to be 40 per cent less than emissions per unit of diesel, on a 'well to wheel' basis which takes into account overall emissions from production to consumption
New capital works	–	–	2,920	5,640	Includes construction works associated with the ELL extension
Grey fleet	–	–	80	45	Grey fleet refers to business miles travelled by employees in their own cars

> NO_x and PM₁₀ emissions by mode

Mode	NO _x (tonnes)				PM ₁₀ (tonnes)				Notes
	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	
Head office buildings	–	–	–	–	–	–	–	–	Negligible
LU	13	7	8	7	1	–	–	–	Includes back-up power station only
London Overground	–	–	17	39	–	–	0.5	1	Emissions from electric traction, diesel traction and non-traction uses
DLR	–	–	–	–	–	–	–	–	Negligible
London Tramlink	0.1	0.1	0.1	11	0	0	0	0.2	Includes emissions from boilers in the depot. Figures for 2007/08 are estimated
London Streets	4	–	–	–	0.3	–	–	–	Includes emissions from support fleet. Emissions were not reported since 2006/07
Taxis	1,320	911	866	703	97	78	74	63	–
PHVs	645	618	563	470	35	32	32	31	–
Dial-a-Ride	36	36	37	37	0.6	0.6	0.7	0.5	Emissions from vehicles and boilers in depots
Victoria Coach Station	0.1	0.1	0.1	0.1	0.02	0	0	0	Includes emissions from boilers in the building, does not include coaches travelling to, or from, it
LRS	298	265	295	327	32	29	32	31	Emissions from boats using LRS piers

Mode	NO _x (tonnes)				PM ₁₀ (tonnes)				Notes
	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	
Community Safety, Enforcement and Policing	–	–	–	–	–	–	–	–	Negligible
Bus permits and agreements	123	137	146	191	3	2	2	3	Includes emissions from coaches with London Service Permits, for the portion of their journeys that take place in London. Also includes emissions from buses operating under London Local Service Agreements
London bus network	6,360	6,290	6,290	6,330	12	11	12	13	–
New capital works	–	–	–	–	–	–	–	–	Negligible

> Built environment quality indicators

Mode		Score				Notes
		2005/06	2006/07	2007/08	2008/09	
Head office buildings		No KPI				
LU	Station graffiti	78%	81%	81%	82%	Mystery shopper survey (MSS) score
	Train graffiti	72%	74%	74%	76%	
	Station cleanliness	67%	70%	67%	67%	
	Train cleanliness	66%	67%	64%	66%	
London Overground	Station cleanliness and condition	–	–	71%	78%	Customer satisfaction survey (CSS) score
	Train cleanliness and condition	–	–	60%	67%	
DLR	Station cleanliness and condition	–	95%	96%	93%	CSS score. DLR reported these figures for the first time in 2006/07
	Train cleanliness and condition	–	95%	96%	93%	
London Tramlink	Tram cleanliness and condition	85%	–	–	–	CSS score. No figure reported since 2006/07
London Streets	Quality of the street environment	3.8	3.4	3.2	3.2	LEQS score for TLRN streets
Taxis	Vehicle cleanliness	88%	88%	87%	89%	
PHVs	Vehicle cleanliness	83%	83%	84%	83%	
Dial-a-Ride	Vehicle cleanliness	93%	92%	93%	92%	CSS score
Victoria Coach Station	Station cleanliness and condition	76%	73%	74%	74%	CSS score. No figure was reported for 2006/07
LRS	Station cleanliness	87%	88%	88%	90%	CSS scores that cover all river boats covered by LRS. The figures do not include Woolwich Ferry
	Boat cleanliness and condition	87%	88%	88%	89%	

Mode	Score				Notes	
	2005/06	2006/07	2007/08	2008/09		
Community Safety, Enforcement and Policing	No KPI					
Bus permits and agreements	No KPI					
London bus network	Bus cleanliness and condition	80%	79%	80%	81%	CSS score
	Station cleanliness and condition	75%	75%	76%	78%	

The MSS and CSS award scores of up to 100, based on perception of cleanliness and condition. The higher the MSS and CSS score, the better the performance

The LEQS is conducted by the environmental charity Capital Standards at many sites across London. Scores range from minus eight to eight, with a score between zero and four classed as satisfactory, and from four to eight as good

> Waste production and recycling

Mode	Total C&I waste (tonnes)				Total C&I waste recycled (tonnes)				Total C&D waste (tonnes)				Total C&D waste recycled (tonnes)				Proportion hazardous waste (%)				Notes
	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	
Head office buildings	852	1,090	1,760	1,990	290	421	737	1,040	–	–	90	380	–	–	83	336	0.01%	0.06%	0.26%	0.01%	
LU	9,050	11,700	14,200	14,200	2,420	3,680	5,740	5,650	134,000	131,000	71,700	118,000	115,000	108,000	51,100	84,800	2%	9%	8%	5%	Includes waste from stations, depots, trains and Investment Programme works
London Overground	–	–	58	486	–	–	14	31	–	–	–	–	–	–	–	–	–	–	13%	7%	Waste from stations and depots
DLR	–	294	300	310	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	Waste from stations and depots. No recycling data collected
London Tramlink	–	–	–	528	–	–	–	206	–	–	–	–	–	–	–	–	–	–	–	–	Waste from stations and depots
London Streets	–	–	–	–	–	–	–	–	–	–	65,400	134,000	–	–	59,400	132,000	–	–	0%	1.5%	
Taxis	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	Not applicable

Mode	Total C&I waste (tonnes)				Total C&I waste recycled (tonnes)				Total C&D waste (tonnes)				Total C&D waste recycled (tonnes)				Proportion hazardous waste (%)				Notes
	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	2005/06	2006/07	2007/08	2008/09	
PHVs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not applicable
Dial-a-Ride	153	104	89	109	98	6	6	25	-	-	-	-	-	-	-	-	-	0%	0%	0%	Includes waste from depots
Victoria Coach Station	350	360	349	338	0.1	0	0.05	0.05	-	-	-	-	-	-	-	-	10%	14%	7%	5%	Includes waste from the station
LRS	215	260	366	376	53	120	56	56	-	-	-	-	-	-	-	-	25%	38%	17%	17%	Includes waste from LRS piers, Woolwich Ferry and grid boat waste
Community Safety, Enforcement and Policing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not applicable
Bus permits and agreements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Not applicable
London bus network	229	1,050	707	645	57	254	199	123	-	670	669	658	-	659	669	640	33%	6%	11%	17%	Waste from bus stops, shelters, stations and East Thames Buses

> Water consumption

Mode	Total water consumed (m ³)				Notes
	2005/06	2006/07	2007/08	2008/09	
Head office buildings	91,200	89,900	84,700	79,600	–
LU	604,000	570,000	586,000	606,000	Includes water used in train washes, stations and depots
London Overground	–	–	10,400	15,900	Includes water used in stations and depots
DLR	–	27,200	28,000	28,500	Includes water used in stations and depots
London Tramlink	–	–	–	9,960	Includes water used in train washes, stations and depots
London Streets	–	–	–	–	No figures reported
Taxis	–	–	–	–	Not applicable
PHVs	–	–	–	–	Not applicable
Dial-a-Ride	5,090	5,100	4,340	4,770	Includes water used in depots
Victoria Coach Station	24,600	26,400	19,700	18,300	–
LRS	15,700	19,300	19,700	19,600	Includes water used on LRS piers and Woolwich Ferry
Community Safety, Enforcement and Policing	–	–	–	–	Not applicable
Bus permits and agreements	–	–	–	–	Not applicable
London bus network	8,060	55,500	51,900	56,000	Includes water used in stations and depots, including East Thames Buses
New capital works	–	–	–	278	Includes water use associated with ELL construction

TfL welcomes your views to help improve its environmental performance, including feedback on this report.

Please send your comments to:

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