

Transport for London



Proposed London Low Emission Zone

Scheme Description and Supplementary Information

Public and Stakeholder Consultation

November 2006

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ANNEX A – Summary of projected impacts on emissions, exceedances and population exposure

Scenario	Oxides of Nitrogen						PM ₁₀ - annual						PM ₁₀ - daily				
	Emissions of NO _x		Area exceeding annual mean NO ₂ objective for 2010 (40ug/m ³)		Population in area exceeding objective		Emissions of PM ₁₀		Area exceeding annual mean PM ₁₀ objective for 2010 (23ug/m ³)		Population in area exceeding annual mean PM ₁₀ objective		Area with >35 (pre-2010) and >10 (2010) exceedances p/a of daily PM ₁₀ objective (50ug/m ³)		Population in area exceeding objective		
	Tonnes emitted	% reduction	Area (km ²)	% reduction	Population exposed	Reduction in population exposure	% reduction	Tonnes emitted	% reduction	Area (km ²)	% reduction	Population exposed	Reduction in population exposure	Area (km ²)	% reduction	Population exposed	Reduction in population exposure
Base Line 2005	39181		227		1930		2754		191		1392		6		32		
Base Line 2008	33851		160		1370		2462		75		495		3		14		
2008 LEZ Options 1 & 2	32563	3.8	152	5.2	1289	81	2398	2.6	71	5.8	464	31	3	7.4%	13	0.7	4.9
Base Line 2010	27054		88		707		2184		27		159		18		102		
2010 LEZ Variant 1	26390	2.5	85	3.7	675	33	2120	2.9	25	7.5	146	12	16	6.8%	94	7.7	7.6
2010 LEZ Variant 2	26367	2.5	85	3.9	673	34	2125	2.7	25	7.1	147	12	17	6.4%	95	7.2	7.1
Base Line 2012	25358		78		625		2142		17		96		10		52		
2012 LEZ Variant 1	22883	9.8	66	15.6	518	107	2002	6.6	14	16.2	79	17	8	14.7%	44	8.3	16.1
2012 LEZ Variant 2	22805	10.1	65	16.5	512	113	1996	6.8	14	16.7	78	18	8	15.2%	43	8.7	16.7
Base Line 2015	21634		56		443		2042		8		46		5		27		
2015 LEZ Variant 1	20677	4.4	52	7.4	408	36	1995	2.3	8	6.4	43	4	5	7.3%	25	1.8	6.8
2015 LEZ Variant 2	20526	5.1	51	9.3	398	45	1974	3.3	8	8.5	41	5	5	9.6%	24	2.6	9.5

Restricted Activity Days

The term Restricted Activity Days is used in relation to the maps 1-4 in Annex B. The term refers to restrictions on individuals' ability to complete every day activities through ill-health caused by poor air quality. In the maps, the cumulative instances of these curtailed activities are added up to a total number of days lost per thousand people in London.

PM₁₀

Particulate matter less than 10µm aerodynamic diameter

PM_{2.5}

Particulate matter less than 2.5µm aerodynamic diameter

Variant 1

Corresponds to the scenario modelled in Annex A where diesel-engined heavier LGVs and minibuses are included in the LEZ from 2010 on a Euro 3 for PM standard

Variant 2

Corresponds to the scenario modelled in Annex A where diesel-engined heavier LGVs and minibuses are included in the LEZ from 2010 on a 10-year rolling age-based standard.