

HOW WILL THE DATA IN THIS SPREADSHEET BE USED?

- Data in the 'Road link inputs' and 'General inputs' sheets will be used in the investigation stage of target determination (TD)
- Data in the 'Euro standard inputs' sheet will be used in the investigation stage of target determination (TD2) and in the localisation of the road transport NAEI
- Data in the 'Fleet composition data' sheet will be used in the localisation of the road transport NAEI

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	Comment - base year	Comment - projected year(s)
NO _x to NO ₂ conversion	The Defra NO _x to NO ₂ model was used. This method is based on road specific fractions of primary NO ₂ , which was calculated on a link-by-link basis using the EFT version 9.1b for each modelled year, having entered local fleet inputs. As calculations were carried out for annual average concentrations, an average fNO ₂ was calculated for each road link, rather than separate values for each modelled	See base year
Line source parameters (height and width)	Varies by road - single lane taken to be 3.5m, most roads 7m total. All roads were mo	See base year
Surface roughness	Following sensitivity testing and model verification, a uniform surface roughness valu	See base year
Meteorology	Modelling was conducted using the 2018 annual surface meteorological dataset meas	See base year
Calibration approach	LAQM.TG(16) approach was followed. A global primary NO _x adjustment factor (PA _{adj})	See base year
NO _x emission factors	EFT 9.1b	See base year

One table should be filled out for each modelled year and for each modelled domain (e.g. euro standard inputs may be different for A-roads and motorways)

Please add rows to the tables if data on other vehicle types was collected during ANPR surveys

If data on a particular vehicle type was not collected during ANPR surveys, this row should be left blank in each table

The tables contain example data which should be deleted

Year 2022, non-compliant fleet component

	Pre-Euro	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 up to 2016	Euro 6 2017-2019	Euro 6 2020+	Check
Conventional petrol cars	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	TRUE
Hybrid petrol cars	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	TRUE
Plug-in hybrid petrol cars	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	TRUE
Conventional diesel cars	0.00%	0.00%	0.00%	2.62%	20.16%	77.22%	0.00%	0.00%	0.00%	TRUE
Full hybrid diesel cars	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	TRUE
Conventional black cab taxis										FALSE
Full hybrid black cab taxis										FALSE
Battery electric black cab taxis										FALSE
Conventional petrol LGVs	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	TRUE
Hybrid petrol LGVs										FALSE
Plug-in hybrid petrol LGVs										FALSE
Conventional diesel LGVs	0.00%	0.00%	0.00%	2.11%	26.61%	71.28%	0.00%	0.00%	0.00%	TRUE
Full hybrid diesel LGVs										FALSE
Rigid HGVs	0.00%	0.00%	0.00%	6.79%	24.39%	68.82%	0.00%	0.00%	0.00%	TRUE
Artic HGVs	0.00%	0.00%	0.97%	12.05%	20.98%	66.00%	0.00%	0.00%	0.00%	TRUE
Conventional buses	0.00%	0.00%	6.88%	37.20%	29.52%	26.40%	0.00%	0.00%	0.00%	TRUE
Hybrid buses										FALSE
Battery electric buses										FALSE
Methane/gas buses										FALSE
Coaches	0.00%	0.00%	6.88%	37.20%	29.52%	26.40%	0.00%	0.00%	0.00%	TRUE

Year 2022, compliant fleet component

	Pre-Euro	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 up to 2016	Euro 6 2017-2019	Euro 6 2020+	Check
Conventional petrol cars	0.00%	0.00%	0.00%	0.00%	11.57%	25.39%	15.46%	47.58%	n/a	TRUE
Hybrid petrol cars	0.00%	0.00%	0.00%	0.00%	7.99%	8.08%	10.06%	73.87%	n/a	TRUE
Plug-in hybrid petrol cars	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	10.51%	89.49%	n/a	TRUE
Conventional diesel cars	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	35.16%	49.77%	15.07%	TRUE
Full hybrid diesel cars	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.41%	50.49%	45.10%	TRUE
Conventional black cab taxis										FALSE
Full hybrid black cab taxis										FALSE
Battery electric black cab taxis										FALSE
Conventional petrol LGVs	0.00%	0.00%	0.00%	0.00%	20.88%	31.30%	21.31%	26.50%	n/a	TRUE
Hybrid petrol LGVs	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	22.50%	77.50%	n/a	TRUE
Plug-in hybrid petrol LGVs										FALSE
Conventional diesel LGVs	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	44.56%	55.44%	n/a	TRUE
Full hybrid diesel LGVs										FALSE
Rigid HGVs	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	n/a	n/a	TRUE
Artic HGVs	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	n/a	n/a	TRUE
Conventional buses	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	n/a	n/a	TRUE
Hybrid buses										FALSE
Battery electric buses										FALSE
Methane/gas buses										FALSE
Coaches	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	n/a	n/a	TRUE

Year 2022, compliant fleet component

	Pre-Euro	Euro 1	Euro 2	Euro 3	Euro 4	Euro 5	Euro 6 up to 2016	Euro 6 2017-2019	Euro 6 2020+	Check
Conventional petrol cars	0.00%	0.00%	0.00%	33.00%	7.75%	17.01%	10.36%	31.88%	0.00%	TRUE
Hybrid petrol cars	0.00%	0.00%	0.00%	33.00%	5.35%	5.42%	6.74%	49.50%	0.00%	TRUE
Plug-in hybrid petrol cars	0.00%	0.00%	0.00%	0.00%	0.00%	33.00%	7.04%	59.96%	0.00%	TRUE
Conventional diesel cars	0.00%	0.00%	0.00%	0.86%	6.65%	25.48%	23.56%	33.35%	10.09%	TRUE
Full hybrid diesel cars	0.00%	0.00%	0.00%	0.00%	0.00%	33.00%	2.95%	33.83%	30.22%	TRUE
Conventional black cab taxis										FALSE
Full hybrid black cab taxis										FALSE
Battery electric black cab taxis										FALSE
Conventional petrol LGVs	0.00%	0.00%	0.00%	58.00%	8.77%	13.15%	8.95%	11.13%	n/a	TRUE
Hybrid petrol LGVs	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	22.50%	77.50%	n/a	TRUE
Plug-in hybrid petrol LGVs										FALSE
Conventional diesel LGVs	0.00%	0.00%	0.00%	1.22%	15.43%	41.34%	18.72%	23.28%	n/a	TRUE
Full hybrid diesel LGVs										FALSE
Rigid HGVs	0.00%	0.00%	0.00%	1.22%	4.39%	12.39%	82.00%	n/a	n/a	TRUE
Artic HGVs	0.00%	0.00%	0.17%	2.17%	3.78%	11.88%	82.00%	n/a	n/a	TRUE
Conventional buses	0.00%	0.00%	4.20%	22.69%	18.01%	16.10%	39.00%	n/a	n/a	TRUE
Hybrid buses										FALSE
Battery electric buses										FALSE
Methane/gas buses										FALSE
Coaches	0.00%	0.00%	4.20%	22.69%	18.01%	16.10%	39.00%	n/a	n/a	TRUE

Both tables should be filled out for each modelled year and for each modelled domain (e.g. fleet composition may be different for A-roads and motorways)
 Please add rows to the tables if data on other vehicle types was collected during ANPR surveys
 If data on a particular vehicle type was not collected during ANPR surveys, this row should be left blank in each table
 The tables contain example data which should be deleted

YEAR 2022: Average across model domain

	Average fleet composition (%)
Conventional petrol cars	42.00%
Hybrid petrol cars	3.22%
Plug-in hybrid petrol cars	1.72%
Battery EV Cars	0.86%
Conventional diesel cars	35.47%
Full hybrid diesel cars	0.66%
Conventional black cab taxis	0.00%
Full hybrid black cab taxis	0.00%
Battery electric black cab taxis	0.00%
Conventional petrol LGVs	0.19%
Hybrid petrol LGVs	0.00%
Plug-in hybrid petrol LGVs	0.00%
Conventional diesel LGVs	11.18%
Full hybrid diesel LGVs	0.00%
Rigid HGVs	2.64%
Artic HGVs	1.17%
Conventional buses	0.40%
Hybrid buses	0.00%
Battery electric buses	0.00%
Methane/gas buses	0.00%
Coaches	0.16%
Motorcycle	0.33%
CHECK	TRUE

Buses	With DPF	With DPF and SCR	CHECK
Euro 3			FALSE
Euro 4			FALSE