


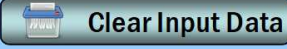


HELIOS RENEWABLE
ENERGY
PROJECT

Preliminary Environmental Information Report

Volume 3: Technical Appendices

Appendix 12.2: Helios Emissions
Factor Toolkit

Select Pollutants		Select Outputs		Additional Outputs		Advanced Options			Click the button to:	
<input type="checkbox"/> NOx <input checked="" type="checkbox"/> CO2 <input type="checkbox"/> PM10 <input type="checkbox"/> PM2.5		<input type="checkbox"/> Air Quality Modelling (g/km/s) <input type="checkbox"/> Emissions Rates (g/km) <input checked="" type="checkbox"/> Annual Link Emissions		<input type="checkbox"/> Breakdown by Vehicle <input type="checkbox"/> Source Apportionment <input type="checkbox"/> PM by Source		<input type="checkbox"/> Euro Compositions <input type="checkbox"/> Primary NO2 Fraction <input type="checkbox"/> NOx Annual Emissions Euro Split <input type="checkbox"/> Simple Entry Euro Compositions <input type="checkbox"/> Output % Contributions from Euro Classes <input type="checkbox"/> PM10 Annual Emissions Euro Split <input type="checkbox"/> Fleet Projection Tool <input type="checkbox"/> PM2.5 Annual Emissions Euro Split			 	

Please Select from the Following Options:		Export Outputs									
Area	England (not London)	<input type="checkbox"/> Save Output to New Workbook									
Year	2026	File Name: <input type="text"/>									
Traffic Format	Basic Split										
Select 'Basic Split' or 'Detailed Option 1 to 3' or 'Alternative Technologies' above											

SourceID	Road Type	Traffic Flow	% HDV	Speed(kph)	No of Hours	Link Length (km)	% Gradient	Flow Direction	% Load
Helios	Rural (not London)	210	12	71.78	24	9.2			

Source Name	Pollutant Name	All Vehicles (Annual Emissions (kg/yr except CO2 tonnes/yr))	All LDVs (Annual Emissions (kg/yr except CO2 tonnes/yr))	All HDVs (Annual Emissions (kg/yr except CO2 tonnes/yr))
Helios	CO2	135.69532	72.88311	62.81221

All links	Total CO ₂ Emissions (tonnes/annum)	Direct CO ₂ Emissions from Tailpipe (tonnes/annum)	Indirect CO _{2e} Emissions from Electric Charging (tonnes/annum)						
		136.42	135.70	0.72					

Per Link	Total CO ₂ Emissions (tonnes/annum)	Direct CO ₂ Emissions from Tailpipe			Indirect CO ₂ Emissions from Electric Charging (CO _{2e})				
		All Vehicles (tonnes/annum)	All LDVs (tonnes/annum)	All HDVs (tonnes/annum)	All Vehicles (tonnes/annum)	Electric Cars (tonnes/annum)	Plugin Hybrid Cars (tonnes/annum)	Electric LGVs (tonnes/annum)	Plugin Hybrid LGVs (tonnes/annum)
Helios	136.42	135.70	72.88	62.81	0.72	0.63	0.00	0.09	0.00