SPL Recycling Britain's Roads

SPL Green Roads Ahead

Carbon Reducing Asset Management

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Budgets for 2025/26

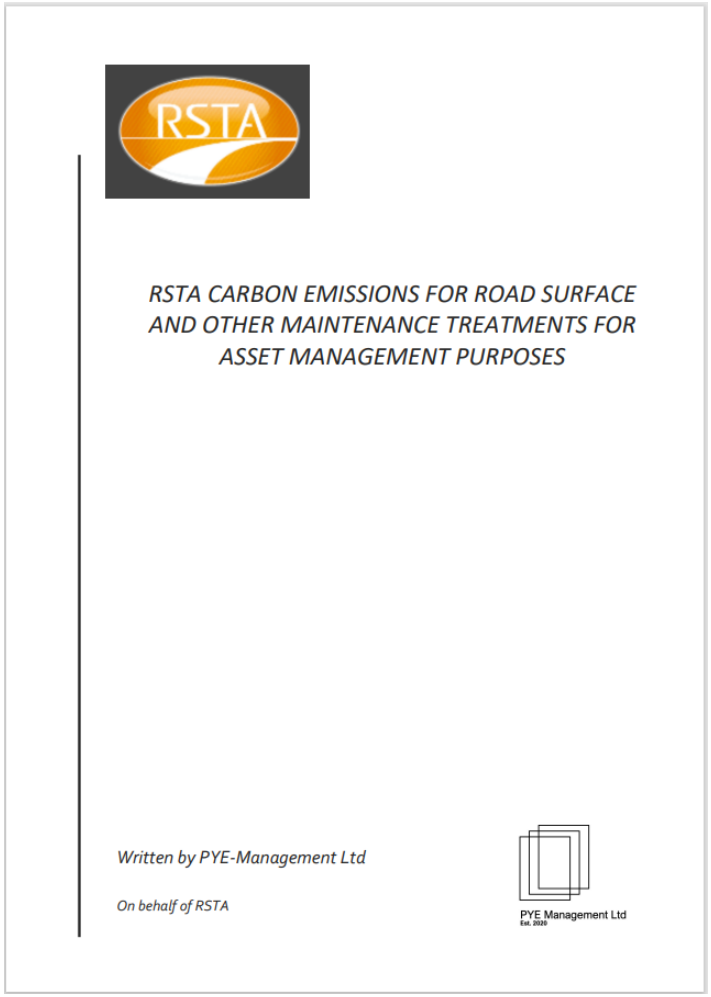
- **20th December 2024**
- **£1.6 Billion, including £500 Million additional funding**
- **25% of the additional funding held back as incentivised funding where local authorities are required to demonstrate they are delivering sustainable asset management**
- **Ensure you have your sustainability process in place**
- **Ensure you can demonstrate it has been implemented for planned schemes (and preferably completed schemes)**

Initial Sustainability Treatment Choice Process

Sustainability Options Initial Process for Pavement Asset Management

Treatment Type	C'way Hierarchy							
Carriageway	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Asphalt Preservation	1	1	1	1	1	1	1	1
Retexturing	1	1	1	1	1	1	1	1
Surface Dressing	1	1	1	1	1	1	1	1
Surface Dressing plus Lockdown	1	1	1	1	1	1	1	1
Microsurfacing	N/A	N/A	N/A	N/A	2	2	2	2
Semi-Structural Microsurfacing	2	2	2	2	3	3	N/A	N/A
Shallow Recycling 75 - 100mm (Retread)	**N/A**	**N/A**	**N/A**	**N/A**	**4**	**4**	**3**	**3**
Medium Recycling - 150mm (Regen/Reg+)	**N/A**	**N/A**	**N/A**	**N/A**	**5**	**5**	**4**	**4**
Deep Recycling	**3**	**3**	**3**	**3**	**6**	**6**	**5**	**5**
Asphalt Inlay Surface Course	4	4	4	4	7	7	6	6
Asphalt Binder Course Overlay	N/A	N/A	N/A	N/A	N/A	N/A	7	7
Asphalt Inlay Surface & Binder C'se	5	5	5	4	8	8	8	8
Asphalt Surface, Binder & Base C'se	6	6	6	4	9	9	9	N/A
Reconstruction	7	7	7	7	N/A	N/A	N/A	N/A

RSTA Carbon Emissions Report 2023



In-situ Recycling v Traditional Asphalt Reconstruction-RSTA Carbon Guidance Report

4.3. In-situ recycling

Table 6 below shows an example of in-situ recycling against a conventional re-surface at a depth of 200mm, 38,157 m^2 and travelling 100 miles to site, and 100 miles return.

Please note that the figures for 200mm resurface do not include break out or removal of existing road surface.

Treatment		Units	A1 - A3	A4	A5	Line Total	Overall total
200mm in-situ recycling	40mm SMA	$kgCO^2e/m^2$	3.680	0.495	0.392	4.567	12.483
	170mm in-situ recycling	$kgCO^2e/m^2$	6.4198	0.6168	0.880	7.916	
200mm resurface	40mm SMA	$kgCO^2e/m^2$	3.680	0.495	0.392	4.567	24.308
	60mm Binder	$kgCO^2e/m^2$	5.878	0.990	0.782	7.650	
	100mm Base	$kgCO^2e/m^2$	12.091			12.091	

Table 6: In-situ recycling vs traditional resurfacing

DfT Work Completed Local Authority Data Collection – 2023 onwards

Route Treatment Type	A roads	B roads	C roads	B & C roads	U roads	
a. Surface Dressing						Edit
b. Micro Surfacing						Edit
c. Preservation and Rejuvenation						Edit
d. Resurfacing						Edit
e. Thin Surfacing						Edit
f. Overlay						Edit
g. Reconstruction excluding in-situ recycling						Edit
h. In-Situ recycling						Edit
i. Programmed Patching (in sqm)						Edit

New

New

Renamed

New

Change of units