



Association of Directors of
Environment, Economy, Planning & Transport

ADEPT President's Awards 2022

Entry form

Award category:	Delivering Clean Growth
Title:	West Berkshire Carbon Neutral Highway Maintenance Programme.
Entrant:	West Berkshire Council
Main contact name:	Jon Winstanley
Email address:	Jon.winstanley@westberks.gov.uk
Partner/s (if applicable):	VolkerHighways & Miles Macadam.
Headline summary (<u>150 characters</u>, c. 20-25 words) A pioneering certified carbon neutral highways maintenance programme delivered in partnership with VolkerHighways and Miles Macadam.	

Please note we need **at least one supporting image** per award submission.
Supporting images should be attached separately as jpg or png files.

Please paste links to any supporting video evidence here.

Link 1	West Berkshire Carbon Neutral Milepave™ Scheme - Miles Macadam
Link 2	



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500-word project outline (please ensure you do not exceed the word count and address all the judges' criteria – for more info see [here](#))

West Berkshire Council has set a target of Carbon Neutrality by 2030 and reducing emissions in delivery of our services is key to achieving this ambitious target.

West Berkshire Council has worked in partnership with VolkerHighways (Term Contractor) and Miles Macadam to devise a fully carbon neutral programme of highway surfacing on roads throughout West Berkshire. Of the two key objectives of the programme, one was to maintain West Berkshire's roads in a safe and useable condition within the available budget, which was achieved. The second was to deliver the programme with a net-zero carbon footprint.

We minimised the carbon footprint of the scheme by using Miles Macadam's specialist reduced carbon product, Milepave™. This sustainable material is manufactured at low temperatures with less bitumen and aggregate than conventional materials, whilst being able to retain its performance and durability.

Using Miles Macadam's bespoke carbon calculator, the team calculated the carbon footprint for each maintenance scheme which was then independently verified.

Delivered Programme of Work:

- 25,233m² of surfacing
- 2,198 tonnes of 40mm Milepave and 79 tonnes of Binder Course
- 151 tCO₂e total emissions, including sub-contractors Scope 3 transport

Environmental Saving:

- Savings of 314 tonnes in aggregates and 40 tonnes in straight run bitumen over conventional materials



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- 73 tCO₂e saving over a conventional hot mix material and a non-carbon neutral surfacing contractor (the equivalent of 220,000 car miles)
- Increased performance and subsequent lower whole life carbon costs

Financial Saving:

- Designed system to last longer, address specific issues and ensure lower whole life cost

To offset the residual carbon tree planting took place including several hundred Hawthorn, Blackthorn and Beech planted locally in Lambourn, an area with known ground and surface water flooding problems. This planting will help sequester carbon locally and add to the biodiversity and flood resilience of the District.