



BORROWING IDEAS FROM AROUND THE WORLD

Are we testing this for Golf Carts and bicycles at least?

Water drainage? Built in! Power, Cable and fresh water distribution - all there.



When will the US try this technology?

Latest technology changes and redesigns the carbon chain of recycled PE plastic feedstock, creating a more functional shorter chain wax that easily melts into and integrates seamlessly with the asphalt and doesn't create microplastic pieces

India has 75,000 miles of this so far, all made from recycled drink bottles, with 30% less maintenance costs compared to asphalt / concrete roads. Yes, on main highways with trucks and high speed vehicles.



Construction teams will require specialist training to make the systems a reality and US companies may need to Joint Venture with overseas companies to be able to work with the latest technologies.

Plastic roads are paved roadways made partially or entirely from recycled plastic materials, replacing traditional asphalt. There are two main types: plastic-bitumen composite roads, where waste plastic is mixed with asphalt, and fully plastic roads made from modular, hollow, prefabricated plastic elements.

Plastic roads offer benefits including better durability, water resistance, flexibility, and noise absorption compared to conventional asphalt. They also help in recycling plastic waste, reducing landfill and incineration, and lowering carbon emissions during road construction and maintenance.

A notable innovation is the "PlasticRoad" concept in the Netherlands, which uses 100% recycled plastic in modular sections that can incorporate utilities and stormwater management. These roads are lighter, faster to install, and last longer than traditional asphalt, although they are currently suited to lighter traffic like bike paths rather than heavy vehicle roads.

Plastic roads reduce petroleum use by cutting asphalt demand and lower emissions by allowing construction with lighter machinery. However, environmental concerns remain about microplastic pollution from degradation and the long-term effects on ecosystems are still being studied.

Plastic roads have been successfully implemented in countries like India, the Netherlands, the UK, and the US, with India having built over 60,000 miles of such roads. Efforts continue to refine the technology and assess the environmental impact fully. Overall, plastic roads present a promising sustainable infrastructure solution that addresses plastic waste issues and offers improved road performance in certain applications.



Dalmarnock, UK



Denbighshire, Wales



A709 Dumfries & Galloway, UK



Ashton Rise Bristol, UK



Green Dragon Lane Enfield, UK



Hundith Hill Cumbria, UK



Jeffery's Bay, South Africa



Montald Road Coventry, UK



Narva Road, Estonia



North West, UK



QE2 Water Bridge London, UK



Smizany Forest, Slovakia



Springfield Housing Estate, UK



Tesco Dumfries, UK



Truro Avenue Durham, UK

This doesn't appear to have started in the US as of Dec 2022.

Isn't the US the largest consumer of plastics?