What if we could convert single-use waste into long-term infrastructure performance?



When Two Challenges Converge, An Opportunity Emerges

CHALLENGE 1 Reduce Plastic Waste



86% of plastic is lost, landfilled, or incinerated.

Chemical Recycling

Alternatively, a chemical process can use difficult-to-recycle PET from post-consumer and some post-industrial streams. In a **depolymerization process**, thermoplastic polymers are rebuilt on a molecular level, producing a stronger material. This ingredient is used to create NEO.

The Opportunity:

NEO recycles 100% of an existing roadway in-place, creating a completely new category of plastic pavement.

- Lasts 2 3X longer than traditional asphalt
- 5X tensile strength & greater flexibility than asphalt
- Avoid distresses like rutting and reflective cracking
- Deliver at least 50% life cycle savings to taxpayers

CHALLENGE 2 Rebuild Road & Highway Infrastructure



This produces 42 truckloads per lane mile of waste asphalt, and requires 42 truckloads of new asphalt with virgin aggregate.

Cold-In-Place Recycling

Cold-in-place recycling reuses 100% of the existing roadway in-place, at ambient temperatures, eliminating the need for virgin aggregate and the environmental and structural damage from unnecessary hauling.



Upcycle plastic waste to build the safest, most sustainable pavement on the planet.

- Recycles 150,000 plastic bottles per lane mile
- 90% reduction in greenhouse gas emissions
- 6X reduction in energy requirements
- Zero use of virgin aggregate
- Zero leaching or negative impact on water, air, or soils, with no creation of microplastics
- 1 EPA Plastics: Material-Specific Data https://www.epa.gov/facts-and-figures-about-materials- waste-and-recycling/plastics-material-specific-data
- 2 ASCE Infrastructure Report Card https://www.infrastructurereportcard.org/cat-item/roads 3 LAO California Tranportation System Report - https://lao.ca.gov/Publications/Report/3860

NEO neopave.com