

# Types of Sustainable Pavement Replacement Methods



## Full Depth Reclamation (FDR)

**Recycling costs** are normally at least **25 – 50% less** than the removal and replacement of the old pavement.<sup>1</sup>

## Hot In-Place Recycling (HIPR)

Consumes approximately **30 – 35% less energy** than conventional resurfacing, with less truck fuel consumption and less milling.<sup>2</sup>




## Cold In-Place Recycling (CIPR)

**Recycling savings** are typically **15 – 50%** compared to traditional alternatives.<sup>3</sup>

<sup>1</sup> <http://www.cement.org/think-harder-concrete-/paving/soil-cement/full-depth-reclamation>

<sup>2</sup> <http://www.arra.org/rebar.ecn.purdue.edu/ect/links/technologies/civil/hipar.aspx>

<sup>3</sup> <http://www.fhwa.dot.gov/pavement/recycling/cir/>

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- Benefits:**
- Save energy
  - Reduce emissions
  - Reduce extraction of natural resources
  - Save time/money
  - Provide a better life-cycle project

