

CCPR

Cold Central Plant Recycling

Cold central plant recycling (CCPR) is the process of recycling reclaimed asphalt pavement (RAP) through a cold-mix plant. The plant can be transported to the desired recycling location. The CCPR mix is then available for immediate use on a paving project.



THE PROCESS

RAP that is either transported to, or stockpiled at, a central location is run through a portable cold-mix plant. The RAP is sized, then mixed with the appropriate asphalt emulsion/asphalt cement, and hauled to a roadway for placement. The CCPR mixture is placed with conventional paving equipment. A wearing course such as chip seal, micro surfacing or hot mix will be needed over the CCPR layer.

*BENEFITS

- 20-50% less expensive than conventional reconstruction
- Reduces greenhouse gases by as much as 50%
- Reuses 100% of the existing materials
- Adds 15-20 years to the pavement when combined with appropriate wearing courses

*ISSUES ADDRESSED

- Addresses the same distresses as a hot mix asphalt (HMA) overlay
- CCPR treats distresses to any depth in the pavement structure

MATERIALS USED

- RAP: Gathered from existing roadway or stockpile
- Asphalt: An asphalt emulsion based on the design
- Corrective Aggregate: Occasionally needed based on the mix design

COMMON COMBINATIONS

- CCPR + hot mix overlay
- CCPR + single or double chip seal (low-volume roads)

**Reported by RoadResource.org by PPRA*