

OMAHA TRACK'S

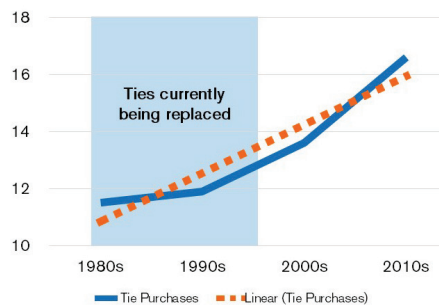
Alternative Fuel: OT Biomass

Omaha Track receives over 175,000 tons/year of creosote treated railroad ties (CTRT) under contract with major railroads. We grind or shred CTRT to create **OT Biomass** (alternative fuel) for cement kilns. The chip size is adjusted to meet the needs of the customer's alternative fuel systems. As transportation professionals we provide a full and certifiable chain-of-custody logistics solution from railroad property to production terminal and to your kiln.

Advantages and Value

- **Sustainable Supply:** CTRT purchases have increased since the 1980s and will provide a consistent supply of fuel for decades to come (see figure 1).
- **Regulations:** EPA Categorical non-Waste fuel
- **Emissions:** Yields a measurable decrease in NOx, SOx, VOC, Chlorine and Mercury vs. most coals.
- **Heat Value:** Low-moisture product with quantifiably higher BTU than woody biomass and comparable BTU to many coal sources.
- **Environmental Value:** Considered a renewable fuel, **OT Biomass** achieves zero CO2 intensity, based on carbon intensity calculation.

Railroad Wood Tie Purchases By Decade
(in millions of scrap tons)



Data Source: Railroad Tie Association

Figure 1

Railroad Tie Chips as Kiln Fuel: The Cement Industry Perspective

- Good heat content compared to other biomass fuel – 7,500-8,200 Btu (4,170-4,560 kCal/kg)
- Consistent quality and chemistry – little variation over time
- Low moisture in a biomass fuel – 10-15%
- Relatively easy to process – just needs size reduction, metal removal and screening
- Low in process chemistry “bad players” – copper, sulfur, chlorine, mercury, sodium and potassium, etc.
- No contaminants of concern – EPA hazardous pollutants are low
- Recognized by EPA as a “Category 2” non-waste fuel – requires no further evaluation
- Considered biomass for CO2 intensity – doesn’t count toward GHG output under GNR protocols
- Consistent volume – good availability and transportation network

