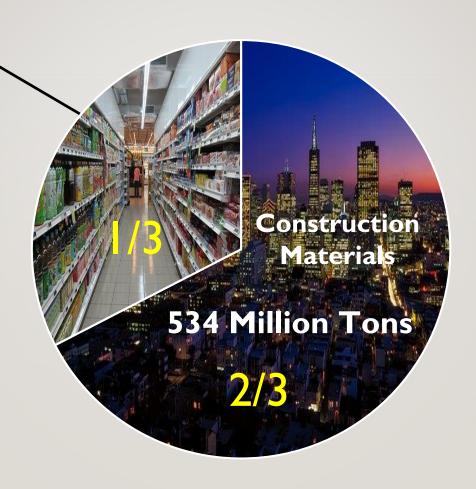


Annual U.S. Materials Generation (EPA, 2014)

Home & Office Materials

258
Million Tons





EPA WARM MODEL

- Online Excel Spreadsheet Converts Building Materials Reduction
 & Recycling to Embodied Energy & Greenhouse Gas Emissions
- Example -

Dimensional lumber - 25 tons reused & 5 tons composted

Bricks - 10 tons reused

Steel – 5 tons reused & 5 tons recycled

Copper Wire $-\frac{1}{2}$ ton recycled

Wood flooring – 3 tons reused



ENVIRONMENTAL IMPACTS:

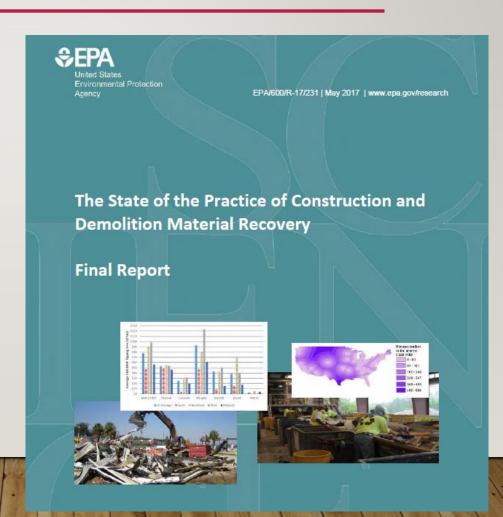
- 63 Metric Tons CO2 Equivalent = 13 passenger cars off the road for a year
- 486 Million BTU = 4 households' annual energy use or 3,914 gallons of gas

NEW EPA REPORT

The State of Practice of Construction and Demolition Material Recovery (2017)

Table 3-2 Policy Options for Promoting Solid Waste Recovery

In addition, as demonstrated in Portland (OR), cities can adopt ordinances or building codes requiring deconstruction for particular types of buildings or historic buildings (City of Portland, 2017b).



EPA TRIBAL SOLID WASTE PROJECT MOBILE HOME DECONSTRUCTION

- Mobile homes: a large share of tribal housing for tribes
- Tribal members often acquire these at the end of their useful life – free for the cost of moving them onto tribal lands
- Occupied homes frequently lack adequate water, sewer, electric hookup





RECENT MOBILE HOME DECONSTRUCTION TRAINING FOR TRIBES

Two California tribes asked us for help with mobile home deconstruction and demonstration

- Hopland Band of Pomo Indians
- Chemehuevi Indian Tribe

Topics addressed:

- Environmental hazards
- Structural hazards
- Setting up efficient job site
- Tool use
- Material storage and resale





