

Re-X Before Recycling Prize: Re-framing Re-X

Circularity in Construction Material Flows for Offcuts and Waste: A Zero-Waste Factory Approach



Summary

Established Waste Streams: Construction Materials (Lumber / Wood Products)

Phase 2, *Identify!*: Reframe is looking to use this phase to further develop our repurposing strategy for lumber offcuts and scrap material. Through this phase, Reframe will develop 3D Modeled design plans and work instructions to be able to standardize and scale the production of manufacturing equipment and storage solutions built from scrap lumber.

Reframe will also begin to investigate solutions for re-manufacturing these lumber offcuts into new building materials to be used in our manufactured net-zero homes.

Benefits:

1. **Cost Efficiency - Lowering Consumer Housing Prices**
2. **Resource Efficiency / Reduced Waste**
3. **Circular Economy Innovation**



Digital Work Instructions

Since we are working with the system boundary of the factory, we can closely track our waste streams and sort them through our “Re-frame Re-X” approach: repurpose in-house wherever possible and maximize direct re-manufacturing into future products. We want our Andover factory to serve as a template for our future factories as a “zero-waste factory.”