**bs\_combine**

* Loading in files and tidying up
* Add floor area estimates to individual buildings, based on their ResStock floor area bin, for base projection and RFA projection
* Calculate mean floor area by type, cohort, and geo (div, state, cty), for base and RFA. For RFA add a stipulation that county mean average floor areas by type are never lower than what they are in base.
* Define the RFA stock model output dataframes, based on their baseline counterparts.
* Calculate m2/cap per house type in each county for each scenarios. This is quite slow.
* rename the smop files as \*\_FA. Save as ‘HSM\_results/County\_FloorArea.RData’ and ‘resstock\_projections/ExtData/County\_FloorArea.RData’
* load in material and GHG intensity, and apply to national level to calculate material and GHG flows. Here is redundant, this is now done instead in mgInt\_apply

**mgInt**

* Read in the bom excel files and calculate material and GHG intensities for each archetype by material category.

**mgInt\_apply**

* Load in files and tidy up
* Add archetype flags to the bs\_base and bs\_RFA files
* Merge the material and GHG intensity values with the bs\_base and bs\_RFA files to create bs\_base0 and bs\_RFA0. Use these to estimate the county-type specific material and GHG intensities.
* Apply these county specific intensities to each county to calculate material (in and out) and GHG flows.
* Create Figures 4, 5, 7, and the data needed for Figure 8.