

Safer Product Selection For Health & Environmental Justice

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All people and the planet thrive when the environment is free of toxic chemicals.



2.5
Trillion
Square
Feet

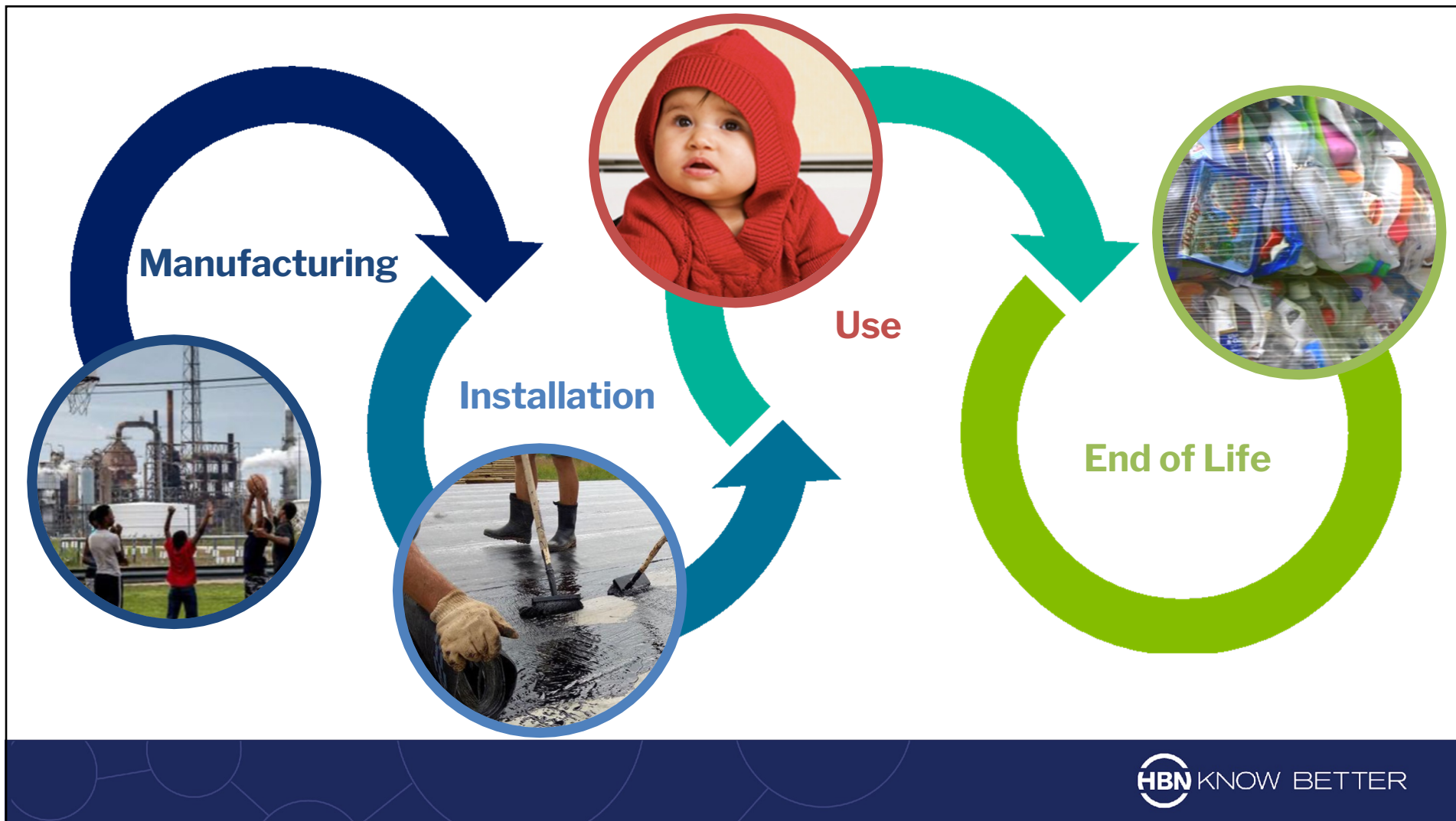
by
2060





People spend up to 90% of their time in buildings...

(EPA - Report on the Environment)





US babies are born with over 200 industrial chemicals, pollutants,
and pesticides in their blood

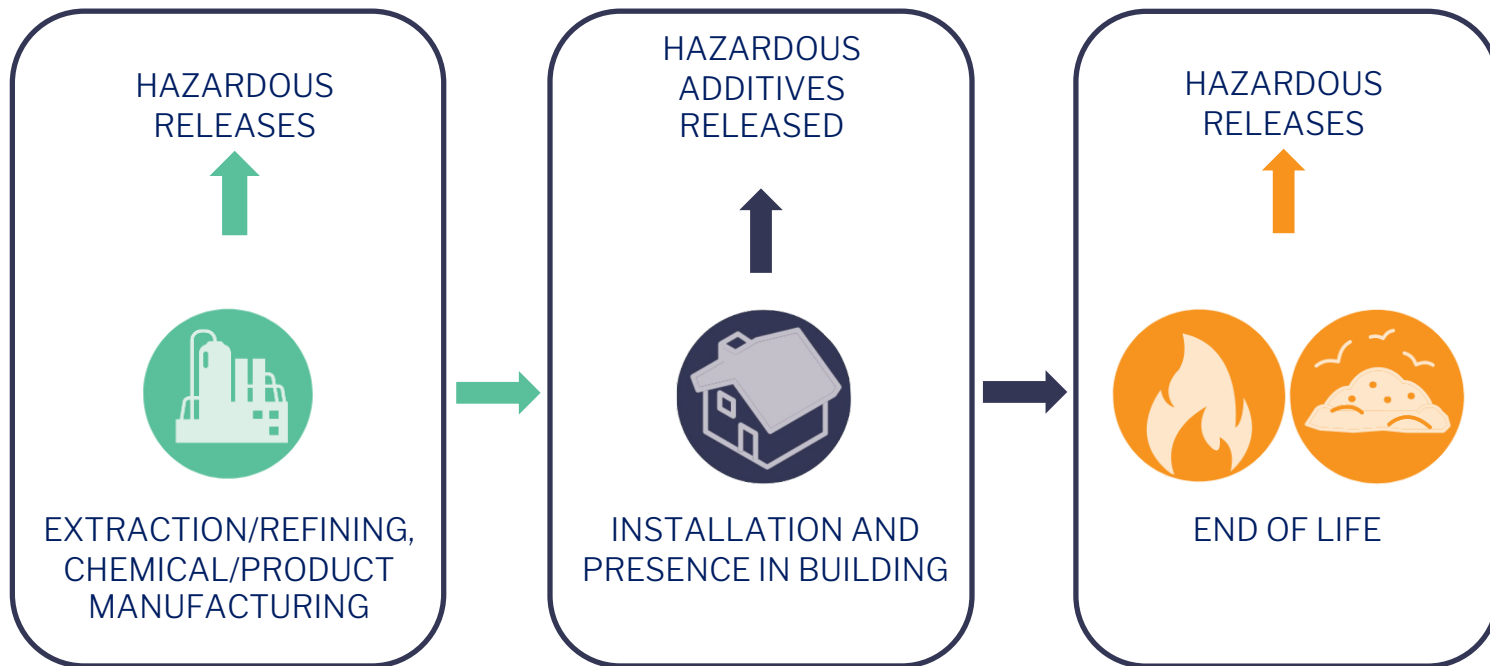


Health and Environmental Justice Impacts: Plastic and Petrochemicals

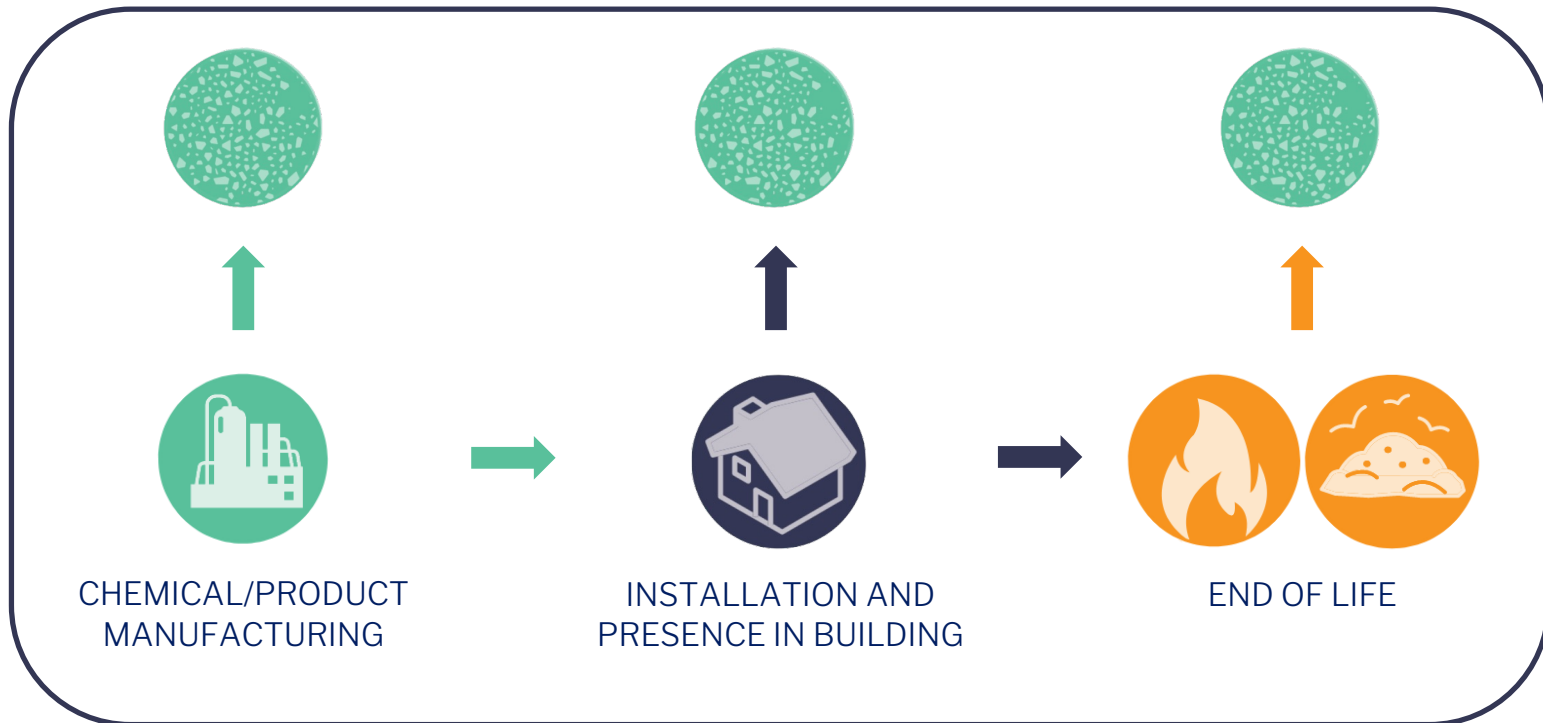
Where is the Plastic in My Building?



Life Cycle Impacts

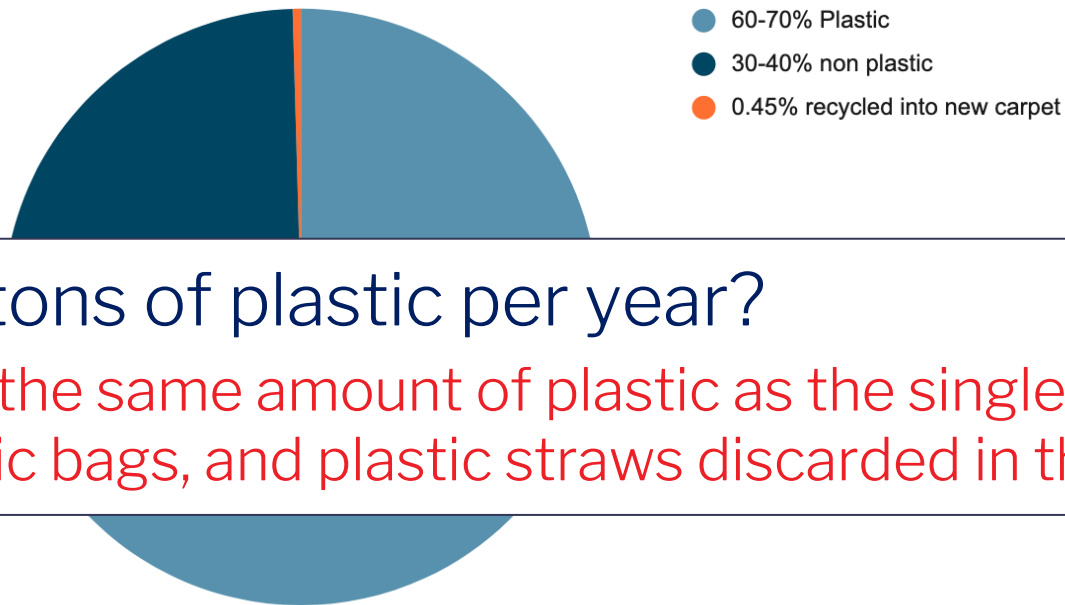


Microplastics



Safer Product Selection Matters

2 million tons of carpet discarded in US each year



1.2 million tons of plastic per year?

That's about the same amount of plastic as the single use water bottles, plastic bags, and plastic straws discarded in the US.

**Estimated 3.9 billion pounds of carpet discarded in US in 2019 (CARE 2019 Annual Report)*



Health and Environmental Justice Impacts: Forever Chemicals

Where are Forever Chemicals in My Building?

- PFAS = Per- and poly-fluoroalkyl substances



Life Cycle Impacts



Health Hazards



PFAS exposures cost tens of billions of dollars in the US annually.

“These costs are not paid by the polluter; they are borne by ordinary people, health care providers, and taxpayers.”

Safer Product Selection Matters

- Renovation avoided carpet and furniture with PFAS
- *78% lower PFAS levels* than typical room!





Tools and Resources

Pharos Chemical Hazard Database

146K

Chemicals,
polymers,
metals &
other
substances

20K

Chemicals with
functional use
data

600

Compound
groups

300

Full Green
Screen Hazard
Assessments



InformedTM

HBN's material health ranking



HBN Product Guidance



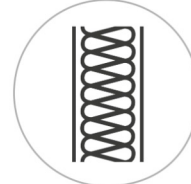
Flooring



Paint



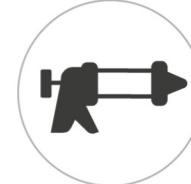
Drywall



Insulation



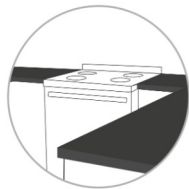
Flooring Installation



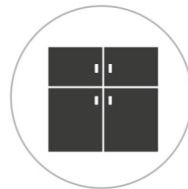
Sealants



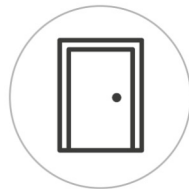
Waterproofing & Dampproofing



Countertops



Cabinetry & Millwork



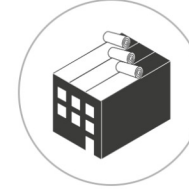
Doors



Turf

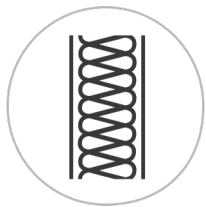


Water Pipes



Roofing

<https://healthybuilding.net/products>



Insulation

- Expanded Cork Boards
- Blown-In Wood Fiber (Loose Fill and Dense Pack)
- Blown and Batt Sheep's Wool
- Hemp Fiber Batts
- Wood Fiber Batts and Boards
- Blown-In Fiberglass or Mineral Wool (Loose Fill, Dense Pack, and Spray-Applied)
- Unfaced Fiberglass Batts
- Formaldehyde-Free Mineral Wool Batts and Boards
- Blown-In Cellulose (Loose Fill)
- Unfaced Formaldehyde-Free Fiberglass Boards
- Kraft-Faced Fiberglass Batts
- Cellulose/Cotton Batts
- Blown-In Cellulose (Dense Pack, and Wet-Blown)
- PSK or FSK-Faced Fiberglass Batts
- Standard Mineral Wool Batts and Boards
- Standard Fiberglass Boards
- Halogen-Free Polyisocyanurate Boards
- ASJ- or FSK-Faced Fiberglass Boards
- Expanded Polystyrene (EPS) Boards
- Standard Polyisocyanurate (Polyiso) Boards
- Extruded Polystyrene (XPS) Boards
- Spray Polyurethane Foam (SPF)

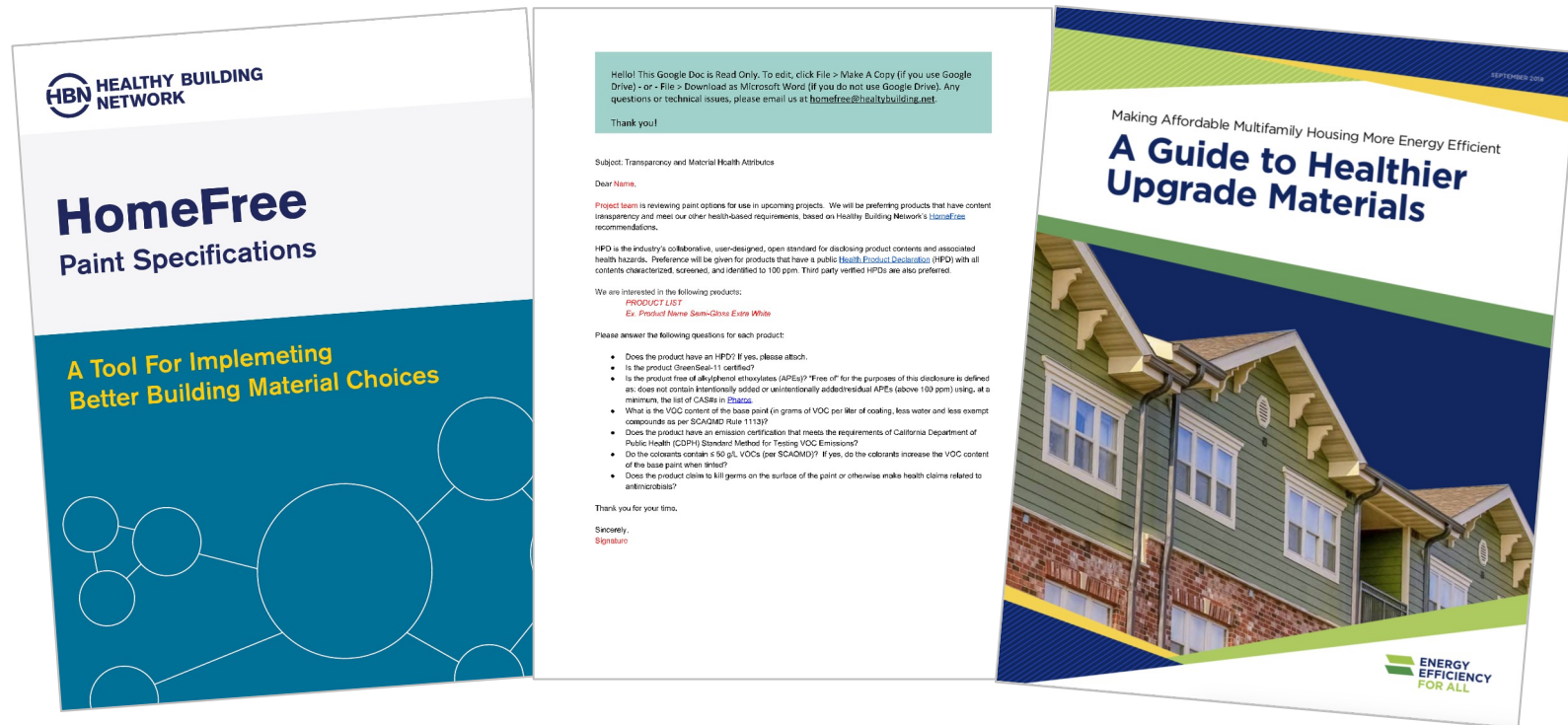


Prefer,
Prioritize,
Specify



Avoid,
Eliminate,
Innovate

HBN Resources



HomeFree Paint Specifications

A Tool For Implementing
Better Building Material Choices

Hello! This Google Doc is Read Only. To edit, click File > Make A Copy (if you use Google Drive) - or - File > Download as Microsoft Word (if you do not use Google Drive). Any questions or technical issues, please email us at homefree@healthybuilding.net.

Thank you!

Subject: Transparency and Material Health Attributes

Dear Name,

Project team is reviewing paint options for use in upcoming projects. We will be preferring products that have content transparency and meet our other health-based requirements, based on Healthy Building Network's [HomeFree](#) recommendations.

HPD is the industry's collaborative, user-designed, open standard for disclosing product contents and associated health hazards. Preference will be given for products that have a public [Health Product Declaration](#) (HPD) with all contents characterized, screened, and identified to 100 ppm. Third party verified HPDs are also preferred.

We are interested in the following products:

PRODUCT LIST

Ex: Product Name Semi-Gloss Extra White

Please answer the following questions for each product:

- Does the product have an HPD? If yes, please attach.
- Is the product GreenSeal-11 certified?
- Is the product free of all glycol ether solvents (APES)? *Free of" for the purposes of this disclosure is defined as: does not contain intentionally added or unintentionally added residual APES (above 100 ppm) using, at a minimum, the list of CAS#s in [Ebacas](#).
- What is the VOC content of the base paint (in grams of VOC per liter of coating, less water and less exempt compounds as per SCAQMD Rule 1113)?
- Does the product have an emission certification that meets the requirements of California Department of Public Health (CDPH) Standard Method for Testing VOC Emissions?
- Do the cobaltants contain $\le 50 \mu\text{g}$ VOCs (per SCAQMD)? If yes, do the cobaltants increase the VOC content of the base paint when tinted?
- Does the product claim to kill germs on the surface of the paint or otherwise make health claims related to antimicrobial?

Thank you for your time.

Sincerely,

Signature

Making Affordable Multifamily Housing More Energy Efficient A Guide to Healthier Upgrade Materials

SEPTEMBER 2021

ENERGY
EFFICIENCY
FOR ALL

HBN KNOW BETTER

Thank You

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