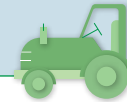
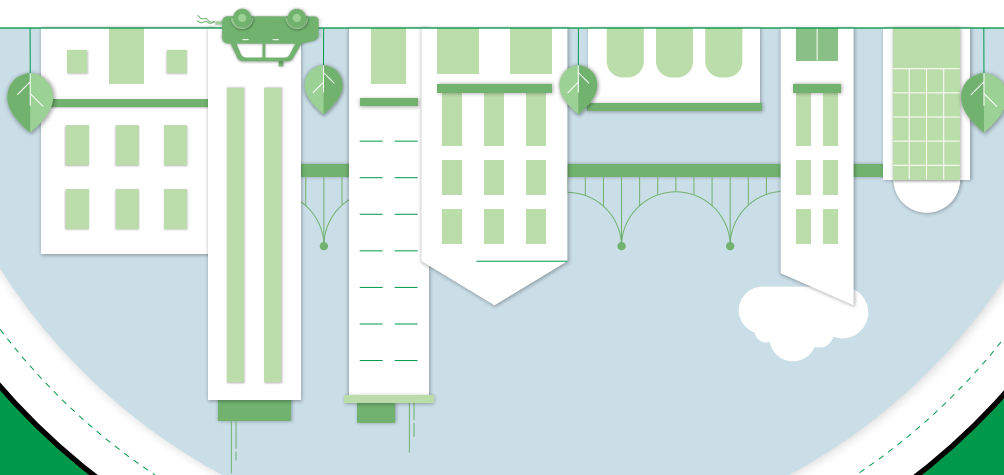


SUSTAINABLE, HIGH-PERFORMANCE, ROOFING SHINGLES



**When It Matters®** *It's not what you say, it's what you do.* **Sustainability Report 2024**





64%

of homeowners value sustainability & want eco-friendly products to be just as available as their non-eco counterparts.

3M STUDY, 2021

Sustainable Performance™

# Sustainable Roofing

If there's a better, more sustainable way to make a shingle, we intend to find it.

At Malarkey, we strive simply to make the best shingles in the most sustainable way. It's a dual mission. First, build the industry's highest-performing shingle. Then, aggressively offset its footprint. Sustainability without sacrificing performance.

Superior Shingle Technology

# Longer Lasting Shingles

The first step in making a sustainable shingle is to make it last longer.

It's why we invented rubberized asphalt roofing shingles – stronger, more flexible, and rubber tough for superior all-weather resilience, durability, and impact resistance, and longer product life.



Wind protection  
**Up to 130 MPH**

2X larger nailing area and enhanced wind warranty for peace of mind against wind blowoffs.



Hail impact rating  
**Up to Class 4**

All Malarkey shingles are impact rated with at least a Class 3 rating. Class 3 and 4 rated shingles (highest ratings possible) can withstand a 1.75" and 2.0" steel ball dropped 12 times from 17 and 20 feet, respectively, without showing signs of fracturing to the back of the shingle.



Greater tear strength  
**Up to 35%**

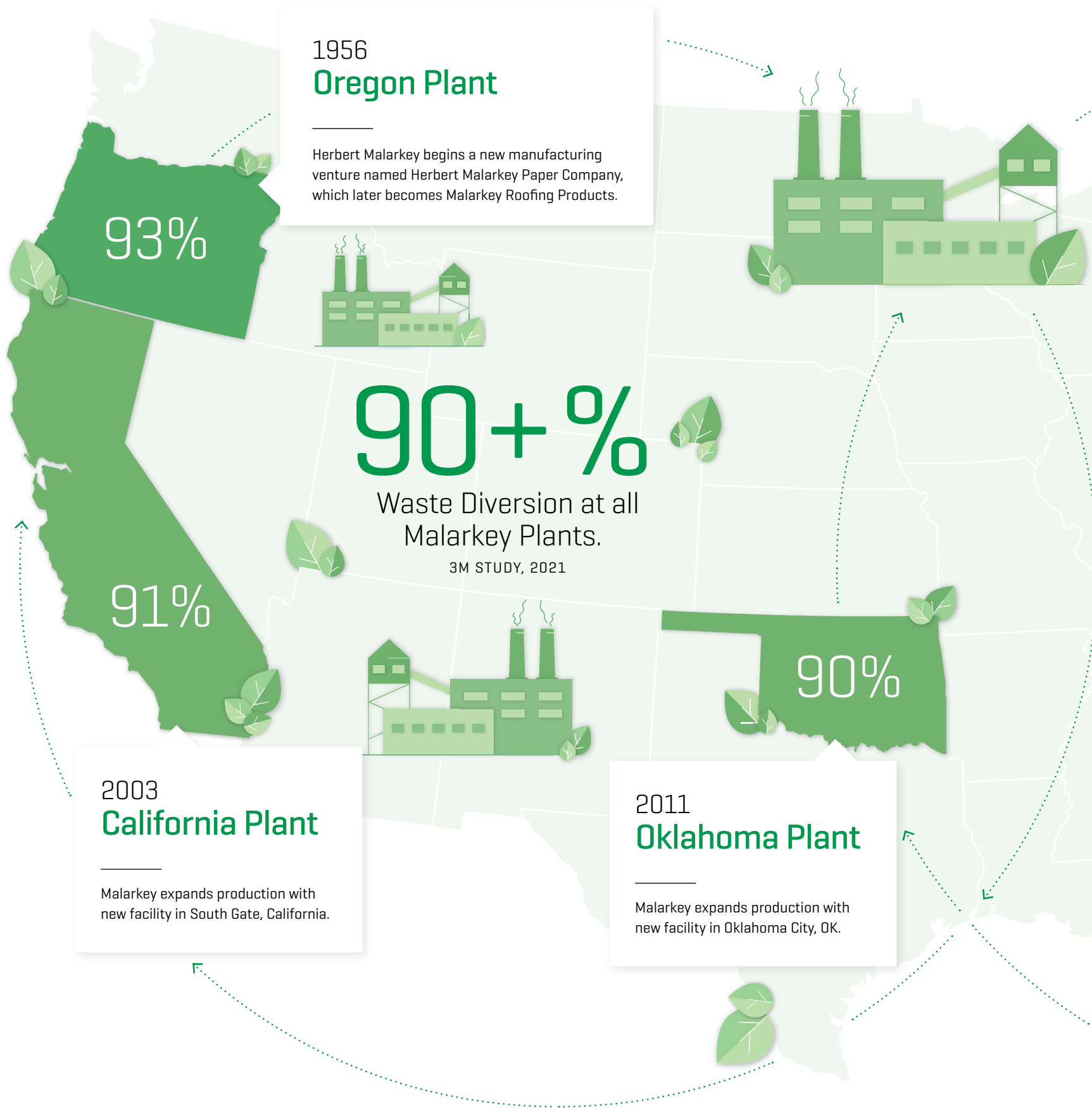
Versus the industry standard (ASTM D3462) to better resist tears and cracks.



Greater granule adhesion  
**Up to 65%**

Versus the industry standard (ASTM D3462) to better protect against UV aging and hail damage.





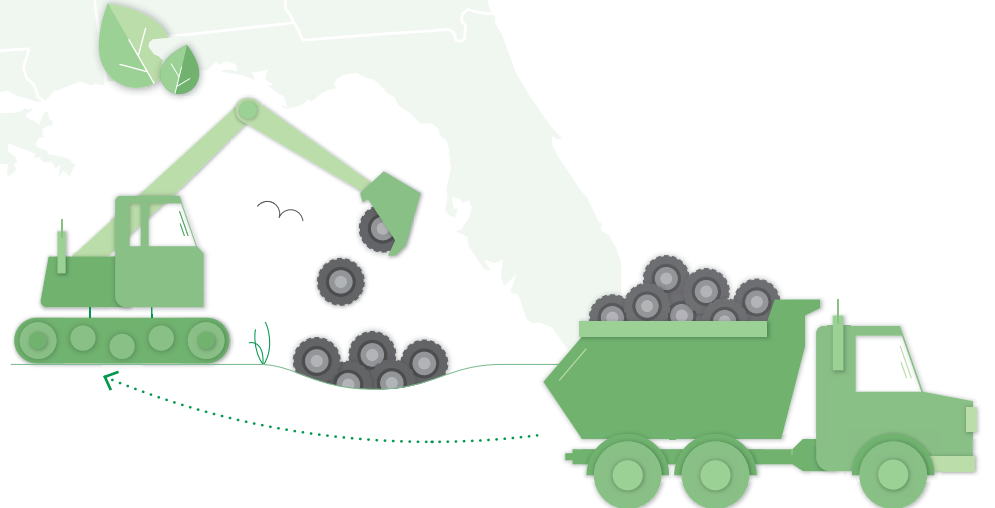
*Fewer Emissions, Less Waste*

# Cleaner Manufacturing

Malarkey's NEX<sup>®</sup> Rubberized Asphalt is a better & cleaner technology, resulting in fewer emissions than the oxidized asphalt method of making standard shingles.

Malarkey is also GreenCircle Certified for Waste Diversion from Landfill at each of its facilities.

*Figures reflect 2022 certification period.*





Recycled Content That Improves Performance

# Lower Carbon Materials + Landfill Reduction

Recycled content can sometimes diminish product quality. Not so with our shingles.

Malarkey shingles have a smaller carbon footprint than standard shingles and include upcycled rubber and plastic from used tires and plastic bags. In fact, by incorporating used tires, Malarkey shingles benefit from the anti-aging ingredient inherent in tires [part of the reason car tires stay black so long]. Shingles last longer, landfills last longer - a true win-win!

## Decarbonizing the Roof

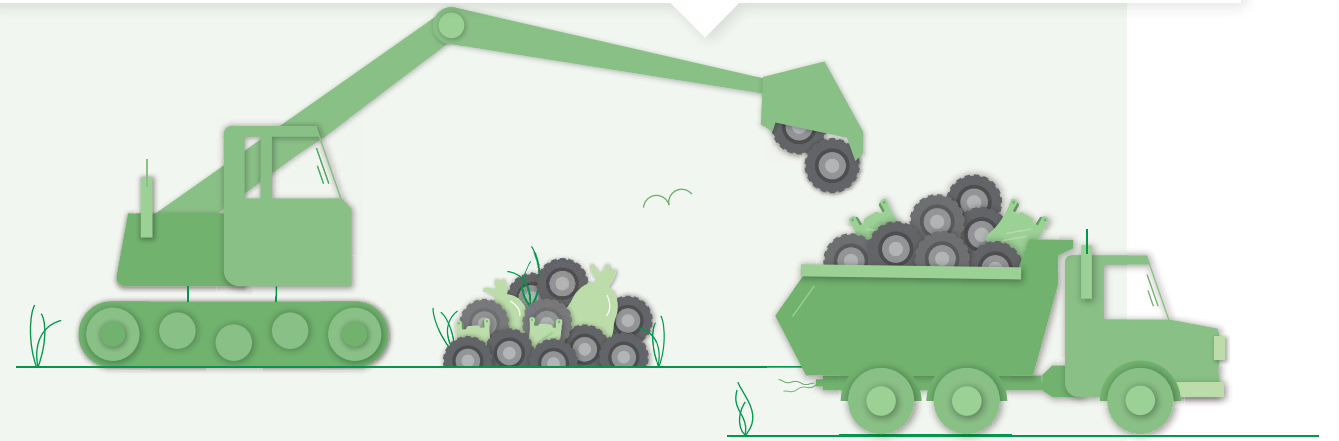
A product's embodied carbon content is what contributes to its global warming potential. In the Environmental Product Declaration [EPD] compiled by the Asphalt Roofing Manufacturer's Association [ARMA] and GreenCircle Certified, Malarkey shingles were shown to have significantly less carbon content than standard shingles.



**~5 Rubber Tires Upcycled**

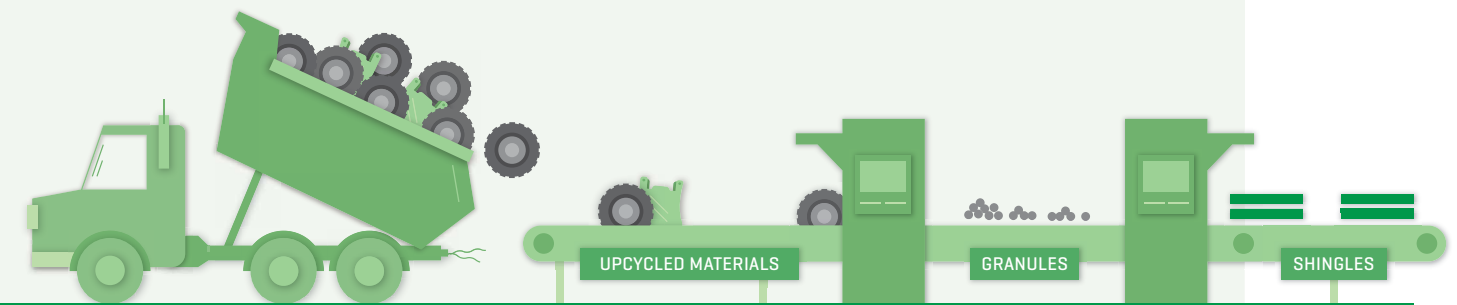
The number of tires and plastic bags diverted from the landfill with each average-sized roof install [30 squares] of Malarkey shingles.

**~3,200 Plastic Bags Upcycled**



**~27M Tires Landfilled**

'Each year, automobiles produce ~246M waste tires in the US, approximately 11% [27M] end up in the landfill.'  
- Popular Mechanic magazine



## Landfill + Carbon Reduction of Malarkey Shingles vs. Standard Shingles

Approximation assuming standard roof of 30 squares.

Malarkey Shingle Lines	Highlander® Highlander® AR	Vista® Vista® AR	Legacy® Scotchgard™ Protector
Upcycled Rubber Tires	4	5	6
Upcycled Plastic Bags	2.9K	3.2K	4.0K
Carbon Reduction	20-26%	19-20%	4-8%





4 in 10

Americans live in counties with unhealthy air pollution.

STATE OF THE AIR REPORT,  
AMERICAN LUNG ASSOCIATION, 2021

### Smog-Reducing Granules

*There's more than one way to plant a tree.*

## Cleaner Air

Clean air is a concern for us all, which is why we integrate smog-reducing granules atop all our shingles.

These innovative granules harness sunlight to convert smog gases (NO<sub>2</sub> - nitrogen dioxide) into salt ions, actively cleaning the air of emission pollutants, like planting trees on your roof.

Trees 'Planted'

~2

The number of trees 'planted' per roof to help clean the air by adding smog-reducing granules atop our shingles.





Roof Cooling Granules Reduce Roof Heat

# Cooler Roofs

What is the Urban Heat Island Effect?

Roof cooling colors reflect ultraviolet (UV) rays to help reduce solar heat entering the home, as well as help offset the Urban Heat Island Effect, which describes elevated temperatures in urban environments (caused by heat-absorbing surfaces like roads, roofs, and buildings) that, according to the EPA, can increase summertime peak energy demand, air conditioning costs, air pollution, and greenhouse gas emissions.

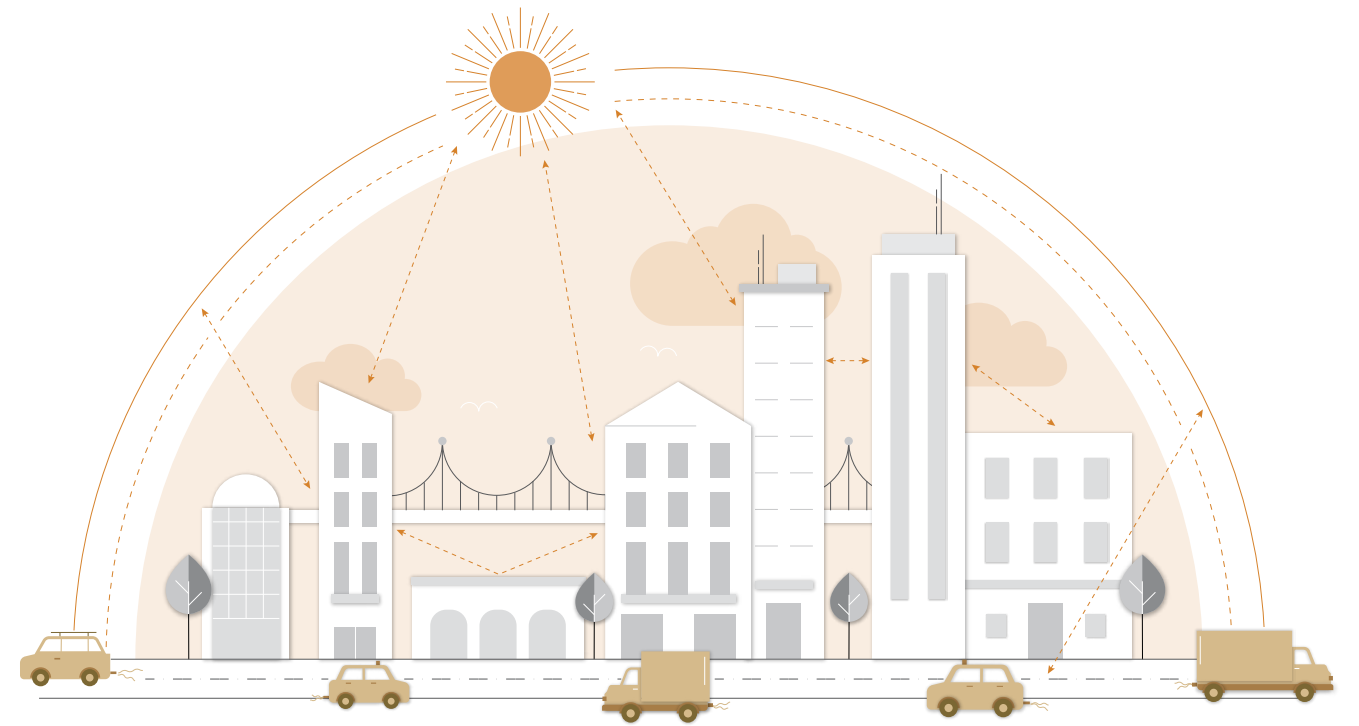
California Energy Code (CEC)  
**Title 24, Part 6**



Malarkey has many colors rated by the Cool Roof Rating Council. Shingles with an SRI (Solar Reflective Index) rating of at least 16 can be used to comply with California Energy Code (CEC) Title 24, Part 6 Cool Roof Requirements. SRIs of 20 or more also meet LA County requirements.

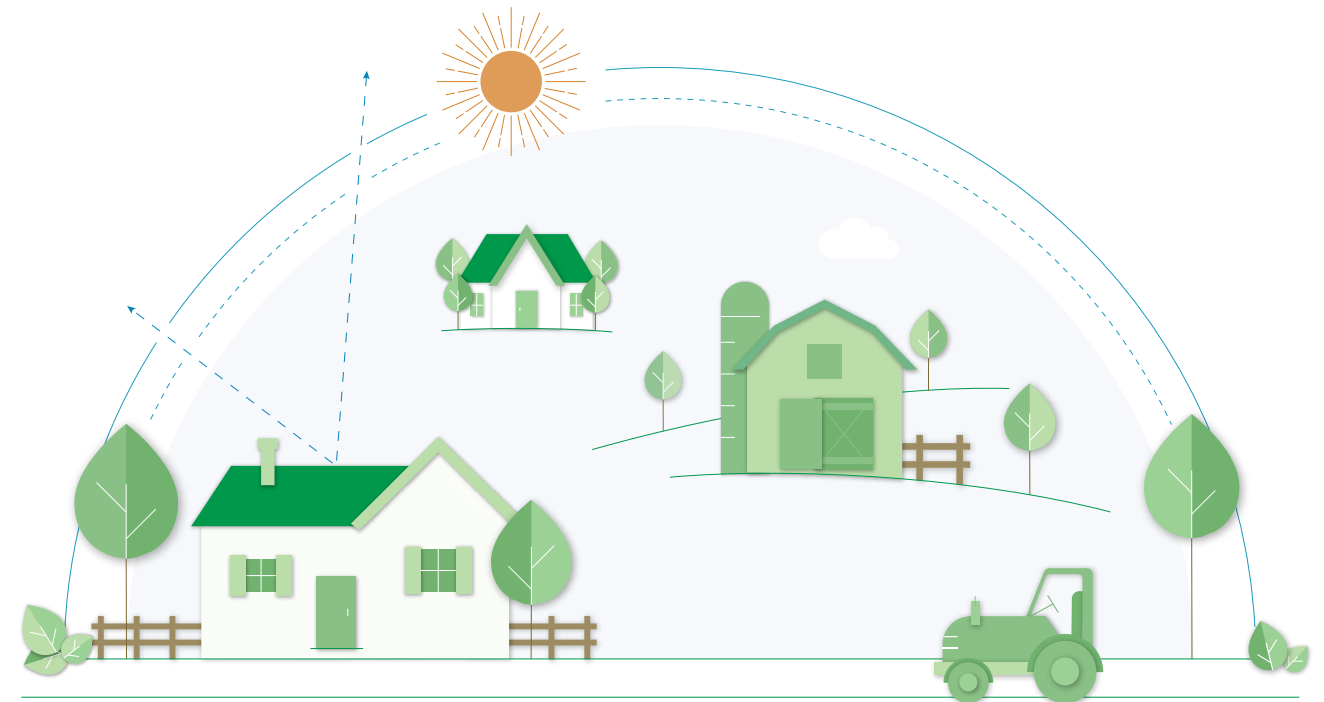
Note:

Solar reflective shingles not available in all markets.



# 20-25%

The addition of 3M™ Cool Roofing Granules can enable shingles to reflect 20-25% of the sun's energy.



*It's Not What You Say, It's What You Do*

# Environmental Stewardship

Sustainability requires action, and we can each play a part.

## One Roof at a Time

"Granted, it's just one roof, but if everyone starts choosing a shingle that reduces landfill waste & fights air pollution, who knows what the end result will be."

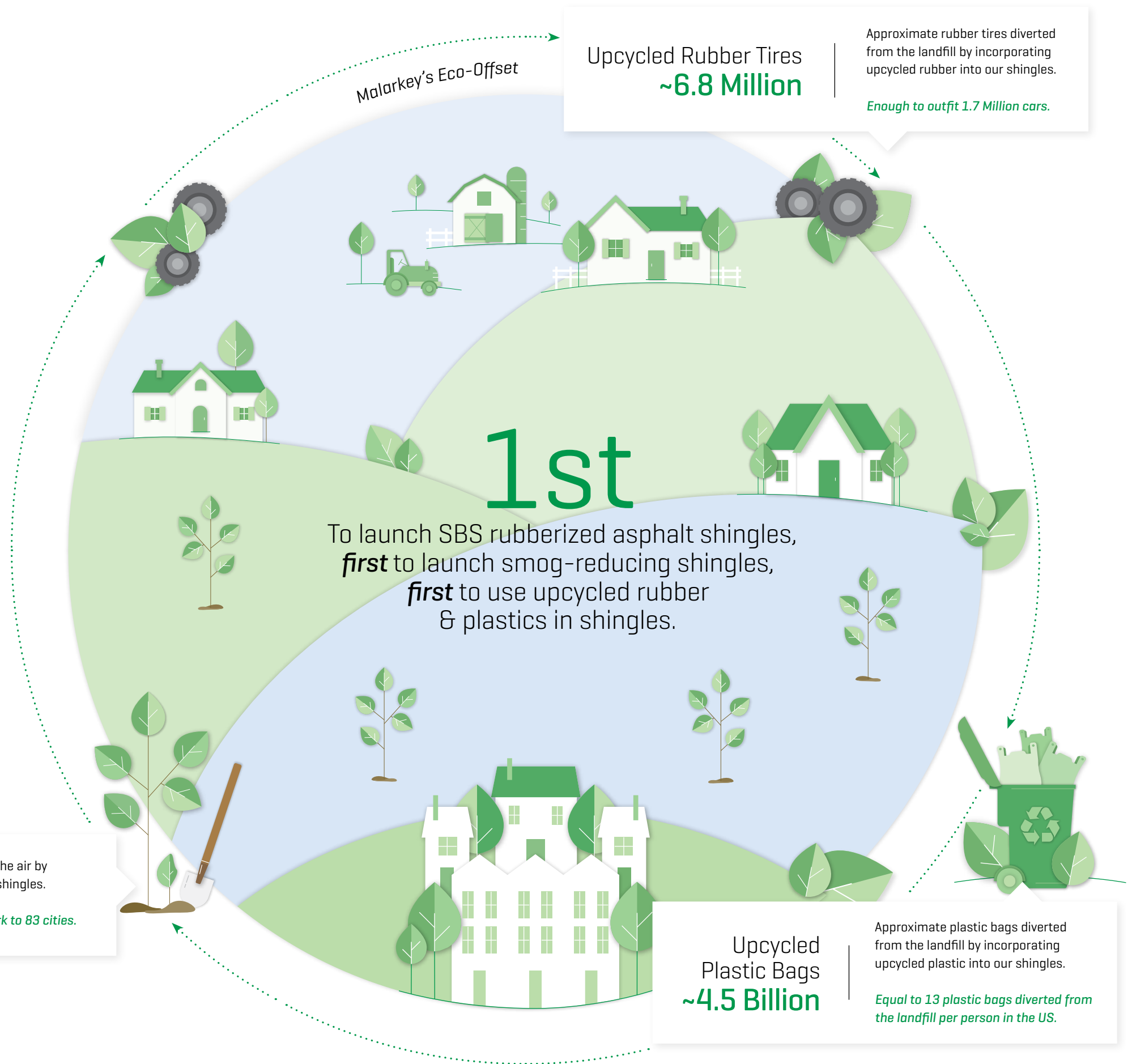
— James Martinez, Homeowner



'Planted' Trees  
**~1.5 Million**

Approximate trees 'planted' to help clean the air by adding smog-reducing granules atop our shingles.

Enough to add a New York City Central Park to 83 cities.





ONE ROOF AT A TIME    SUSTAINABLE PERFORMANCE™    WHEN IT MATTERS®



**70% of Homeowners** plan to choose eco-friendly materials for their next home renovation.

 **Malarkey**  
Roofing Products®



[www.malarkeyroofing.com](http://www.malarkeyroofing.com)