

Center for Sustainable Business

Sustainable Market Share Index™

Randi Kronthal-Sacco Tensie Whelan

Updated: April 2024



Sustainable Market Share Index™: Executive Summary

We reviewed consumer purchasing of sustainability-marketed products in 36 consumer packaged goods (CPG) categories comprising ~40% of the total CPG market* (\$). Our findings are:

Sustainability-Marketed Products Share Performance

- Products marketed as sustainable now hold a **18.5**% market share, **up +4.8 ppts** vs 2015, and **up 1.2 ppts** vs. prior year **despite high 2023 inflation** driving **strong store brand** performance. Among branded players, sustainability-marketed products now hold a **21.2**% share. (Pgs. 6-8)
- Products marketed as sustainable achieved a 5-YR **CAGR of 9.9%,** outperforming its counterparts (Pg. 9)
- Sustainability-marketed products delivered approximately **one third of all CPG growth**, despite representing 18.5% share (Pg. 10)
- The market share of sustainability-marketed products roughly aligns along a **continuum**. Even in categories with low shares, shares of sustainability-marketed products have increased (Pg. 12)

Demographics

• **Upper income, millennials, college-educated and urban** consumers are more likely to buy sustainability-marketed products. In addition, Middle Income, Baby Boomers and Gen Xers contribute a significant percent of sustainable sales. (Pg. 14-17)

^{*}Excluding alcohol and tobacco. **Weighted by \$ Sustainable Sales of categories examined

Sustainable Market Share Index™: Executive Summary (Page 2 of 2)

Price Premiums and Elasticity of Sustainability-Marketed Products (2022 report)

- Sustainability-marketed branded products enjoy a price premium of nearly 28%** vs. conventionally marketed branded counterparts, but the **differential has decreased** since 2018 (Pgs. 19-20)
- Since the pandemic, year to year price increases of conventionally-marketed products have **significantly outpaced** their sustainable counterparts (Pg. 21)

Innovation (2021 report)

The **percentage of new products** that incorporate sustainability benefits have increased every year since 2017 (Pg. 23)

E-Commerce (2020 report)

Sustainability marketed products enjoy stronger shares online vs. in-store (Pg. 25)

Availability (2021 report)

Availability of sustainability marketed products strongly **correlates with share** performance (Pg. 27)

Sustainable Market Share Index™: Research Questions

Consumer packaged goods (CPG) companies are responding to changing consumer expectations, including for more sustainable products. NYU Stern CSB is the only organization conducting an annual analysis of consumer purchasing data to assess the performance of sustainable products in the evolving market.

NYU Stern Center for Sustainable Business partnered with Circana (formerly IRI), to assess the following:

- How have sustainable products fared over time and in the face of inflation?
- Are there specific product categories for which the purchases of more sustainable product options out- or underperform less sustainable alternatives?
- 3. What is the demographic profile of the sustainable purchaser?
- What is the price premium of sustainable products? (2022 report)
- How important has sustainability become in new product development? (2021 report) 5.
- 6. How have sustainable products fared in e-commerce? (2020 report)
- What is the impact of product availability on share? (2021 report)

Note: This study represents an updated and significantly expanded review of consumer purchasing first presented in March 2019.

Sustainable Market Share Index™: Research Question 1

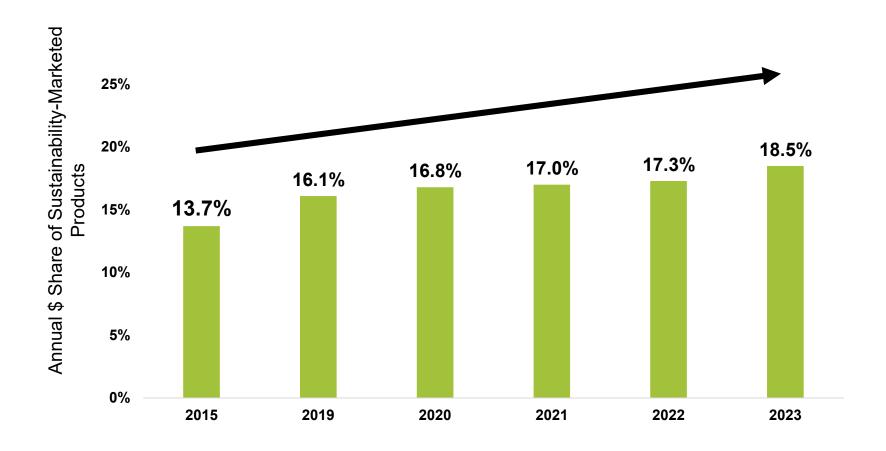
Research Question: How have sustainable products fared over time and in the face of inflation?

Research Result: Sustainability-marketed products have grown every year since 2013, with a significant share increase during the pandemic and 2022-2023 inflation. Moreover, they are contributing to a disproportionate share of the CPG category growth.



Sustainable Market Share Index™: 2023 Market Share

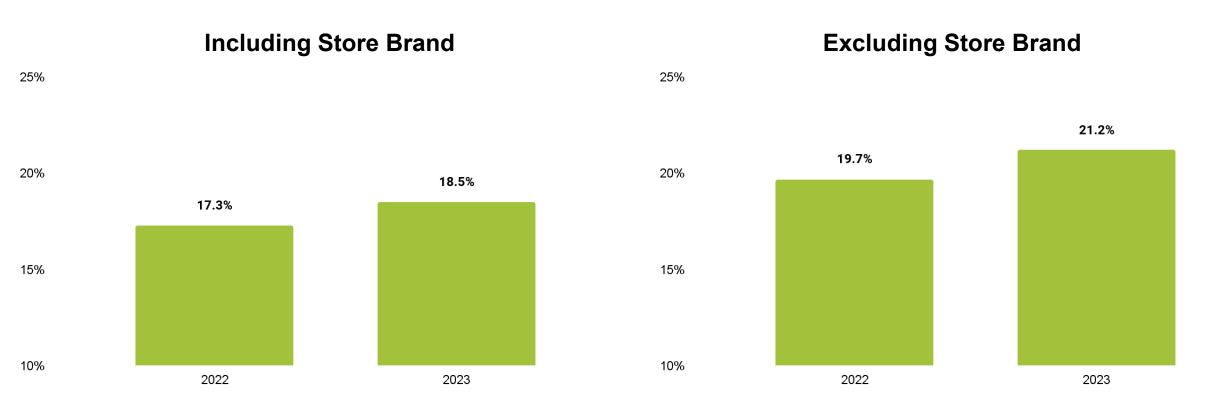
Sustainability-marketed products continues to grow share despite high inflation



36 categories examined

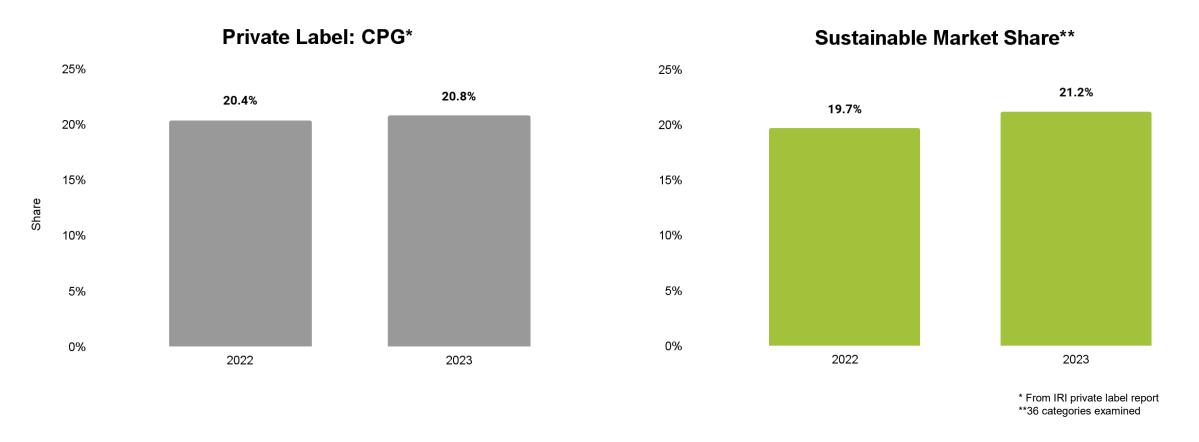
Sustainable Market Share Index™: With/Without Store Brand

The share of sustainability marketed products excluding store brand is 21.2%, +1.5ppts vs YAG



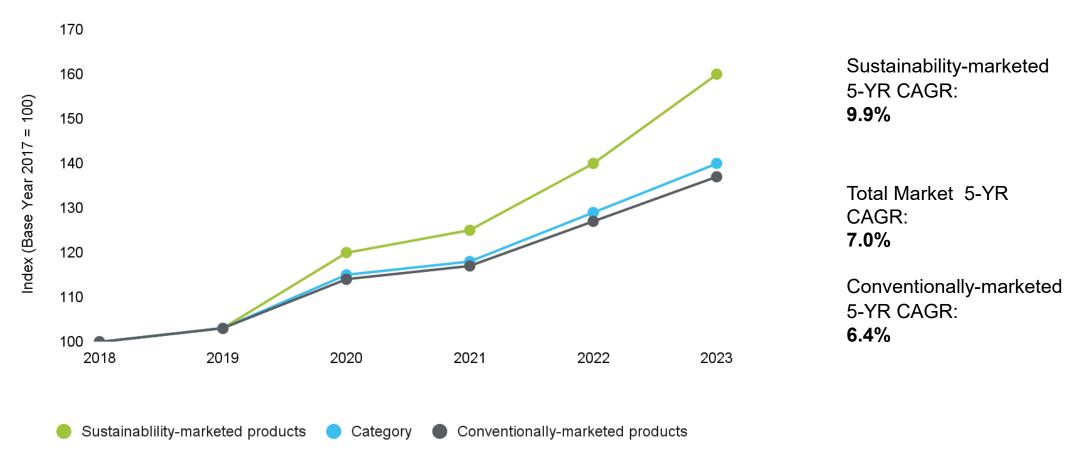
Sustainable Market Share Index™: Store Brands

Store Brand share of market was 20.8%, up +0.4ppts from 2022 to 2023 suggesting that branded **sustainable products** are **more insulated** from inflation-driven moves to store brands



Sustainable Market Share Index™: Growth Rate

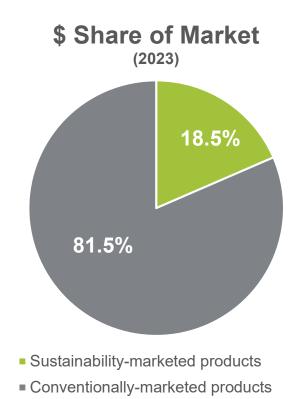
Sustainability-marketed products grew at ~10% 5-YR CAGR, outperforming the market and conventionally marketed products

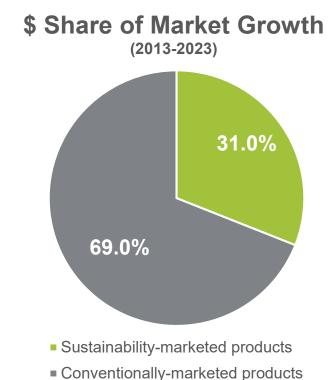


Note: Based on 36 categories examined

Sustainable Market Share Index™: Contribution to Growth

Despite sustainability-marketed products being less than one-fifth of the market share, they delivered **one-third** of the growth since 2013





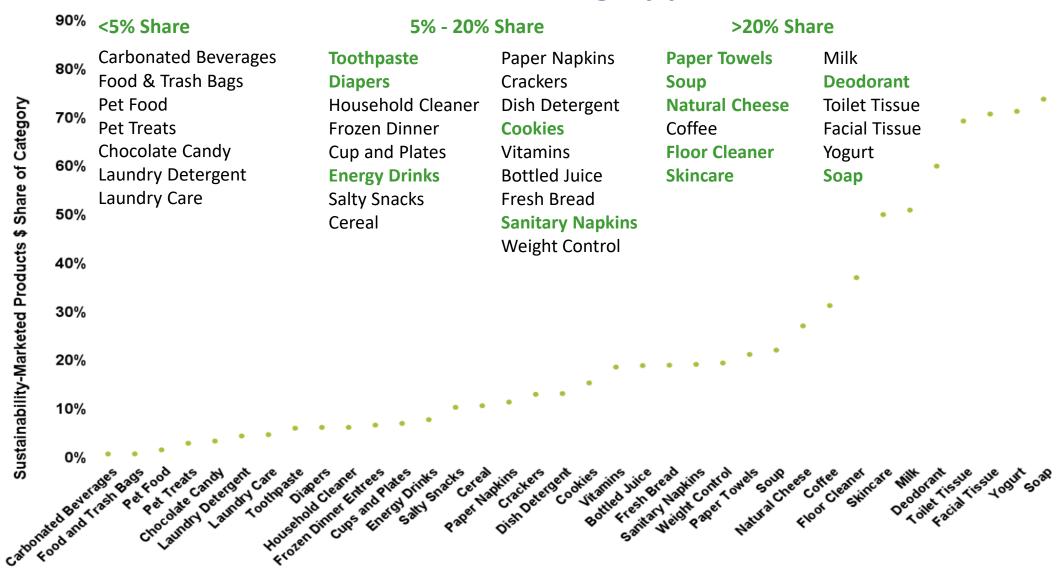
Sustainable Market Share Index TM: Research Question 2

Research Question: Are there specific product categories where the purchases of more sustainable product options out- or under-perform less sustainable alternatives?

Research Result: Yes. Categories are in different stages of development. Almost all categories are seeing sustainable share increases from innovation with sustainable benefits and greater adoption of sustainable benefits, often by category leaders, making sustainability table stakes.



Sustainable Market Share Index[™]: Category performance



Sustainable Market Share Index TM: Research Question 3

Research Question: What is the demographic profile of the sustainable purchaser?

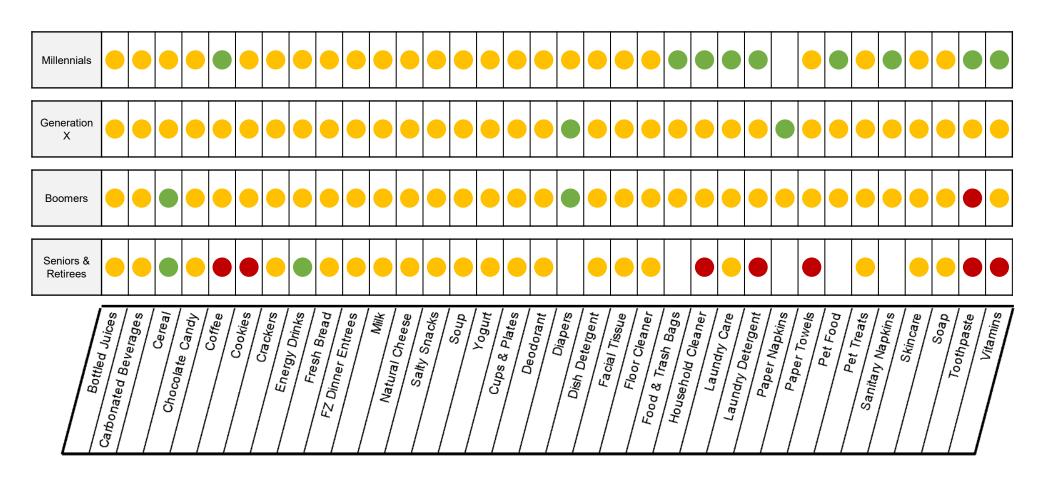
Research Result: Millennials, upper income, collegeeducated and more urban cohorts are more likely to buy sustainability-marketed products.

Baby Boomers, Gen Xers, upper and middle income, college educated and urban cohorts account for the bulk of the sustainable dollars spent.

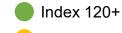
Analysis conducted using IRI HH panel data; based on 35 categories examined

Sustainability Purchase Index – Generational Cohorts

In general, the **younger the HH**, the **more likely** they are to purchase sustainable products



Total CPG Sustainable Sales Composition	
Millennials	30%
Generation X	31%
Boomers	33%
Seniors & Retirees	6%



Index 80-120

Index <80</p>

Chart read as: Millennials purchased a significantly higher percent (>1.2x) of their Coffee purchases on Sustainable Products, than did Average HHs.

Sustainability Purchase Index – Education

The more educated the consumer, the more likely they are to buy sustainable products

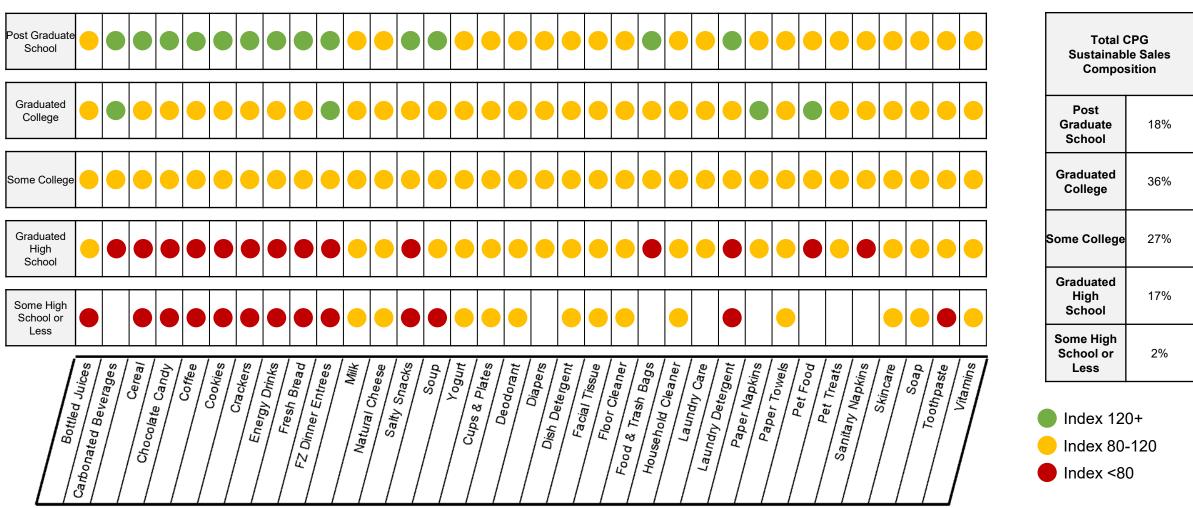
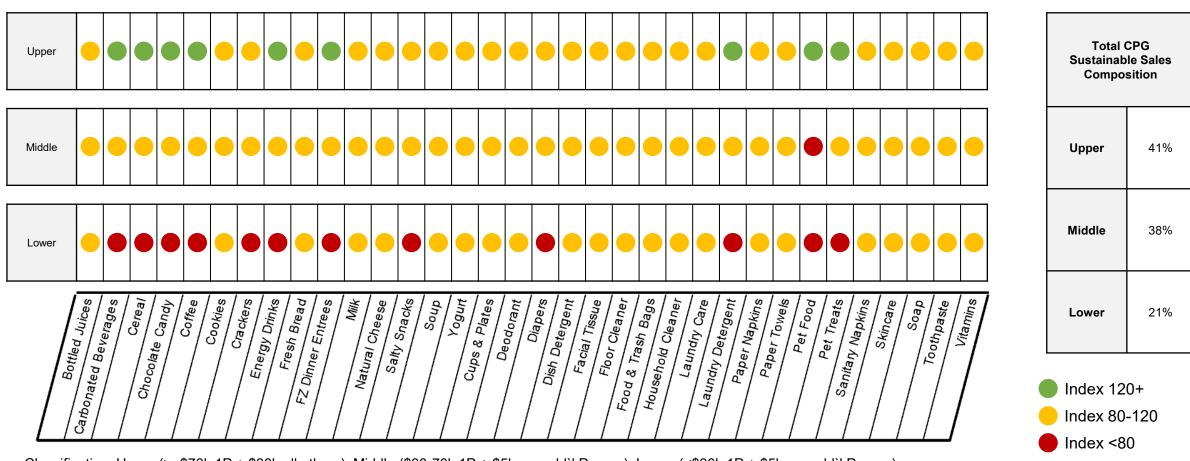


Chart read as: Female HHs who attended Post Graduate School purchased a significantly higher percent (>1.2x) of their Carbonated Beverage purchases on Sustainable Products, than did Average

Center for Sustainable Business

Sustainability Purchase Index – Income Tiers

The more affluent the consumer, the more likely they are to buy sustainable products



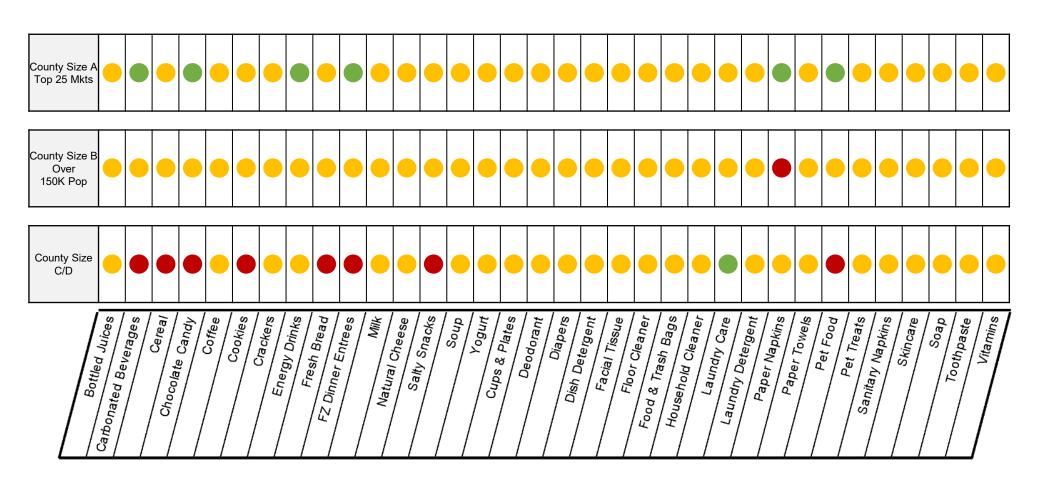
Income Classification: Upper (>=\$70k 1P + \$30k all others), Middle (\$30-70k 1P + \$5k per add`l Person), Lower (<\$30k 1P + \$5k per add`l Person)

Chart read as: Upper Income HHs purchased a significantly higher percent (>1.2x) of their Carbonated Beverage purchases on Sustainable Products, than did Average HHs.

NYU STERN Center for Sustainable Business

Sustainability Purchase Index – Urbanicity

The more urban the consumer, the more likely they are to buy sustainable products



	Total CPG Sustainable Sales Composition		
	County Size A Top 25 Mkts	42%	
	County Size B Over 150K Pop	31%	
	County Size C/D	27%	
Index 120+			

Index 80-120

Index <80</p>

Chart read as: Households in County Size A purchased a significantly higher percent (>1.2x) of their Carbonated Beverage purchases on Sustainable Products, than did Average HHs.

Sustainable Market Share Index TM: Research Question 4

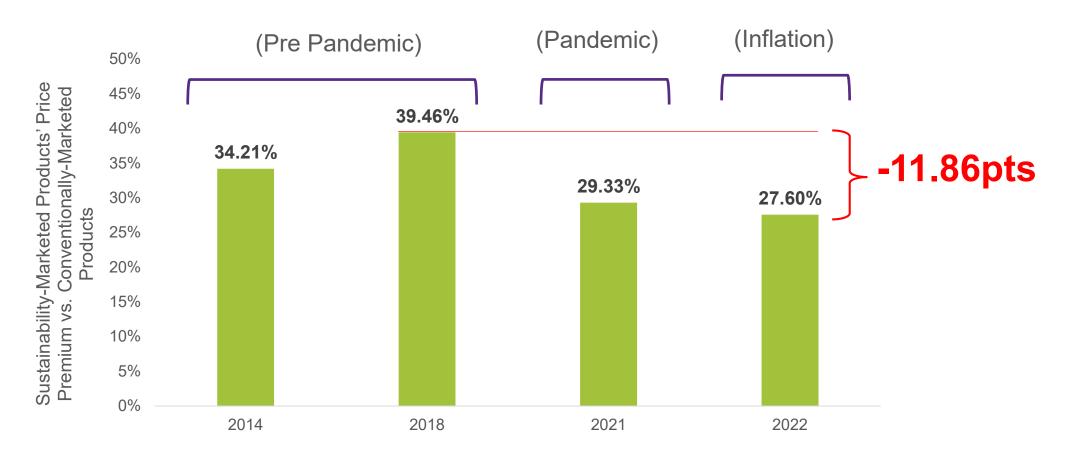
Research Question: What is the price premium of sustainable products?

Research Result: Sustainability-marketed products still enjoy a sizeable premium vs. their conventional counterparts but that gap has shrunk substantially in recent years, as conventional product price increases significantly outpaced their sustainable counterparts and historically conventional products adopt sustainable benefits without taking a commensurate price increase.

Analysis conducted was among branded players and excluded store brand/private label; based on 36 categories examined

Sustainable Market Share Index™: Price Premiums over Time

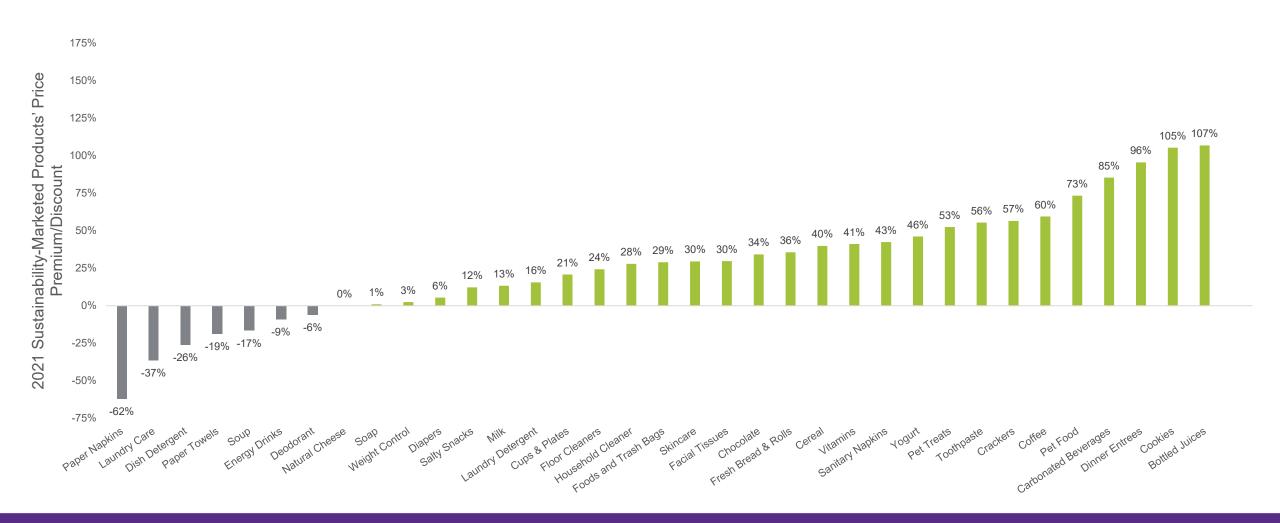
Recent price increases on conventionally marketed products **reduced the price premium** between sustainability-marketed products and their conventional counterparts



^{*}Weighted by \$ Sustainable Sales of categories examined; analysis excluded store brand/private label

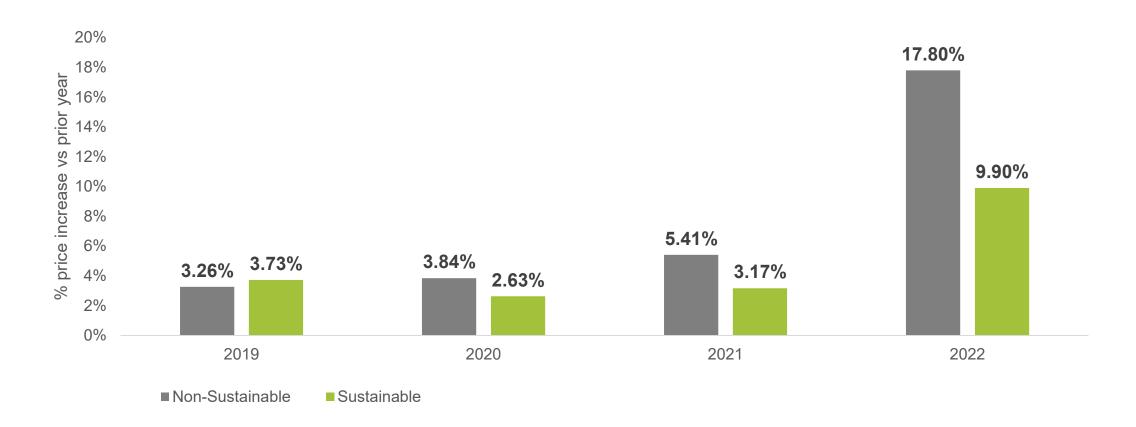
Sustainable Market Share Index™: 2022 Price Premium by Category

In a majority of categories, sustainability-marketed products **still command price premiums**, ranging from **1% to over 107%**. A few categories had price discounts vs. conventionally marketed products.



Sustainable Market Share Index™: Year over Year Price Premiums

Given recent inflationary pressures, conventionally marketed products took higher price increases than sustainability-marketed products



Sustainable Market Share Index TM: Research Question 5

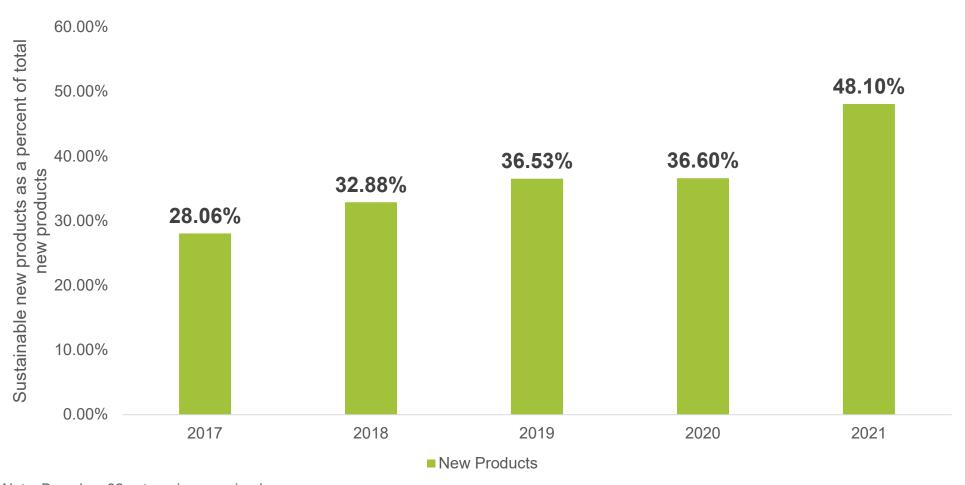
Research Question: How important has sustainability become in new product development?

Research Result: The percentage of new products with sustainable attributes have increased every year since 2017. In 2021, approximately one out of every two new products introduced had a sustainable benefit.



Sustainable Market Share Index: New Products

The percentage of new products that incorporate and communicate sustainability benefits have **increased every year** from 2017 to 2021



Sustainable Market Share Index™: Research Question 6

Research Question: How have sustainable products fared in e-commerce?

Research Result: Products marketed as sustainable have outperformed conventionally marketed products in e-commerce. Moreover, sustainability-marketed products perform better online vs. in store.



Sustainable Market Share Index™: Shares Online vs. In store (2020)

In 3/4ths of the categories examined, shares of sustainable products are stronger online than in store

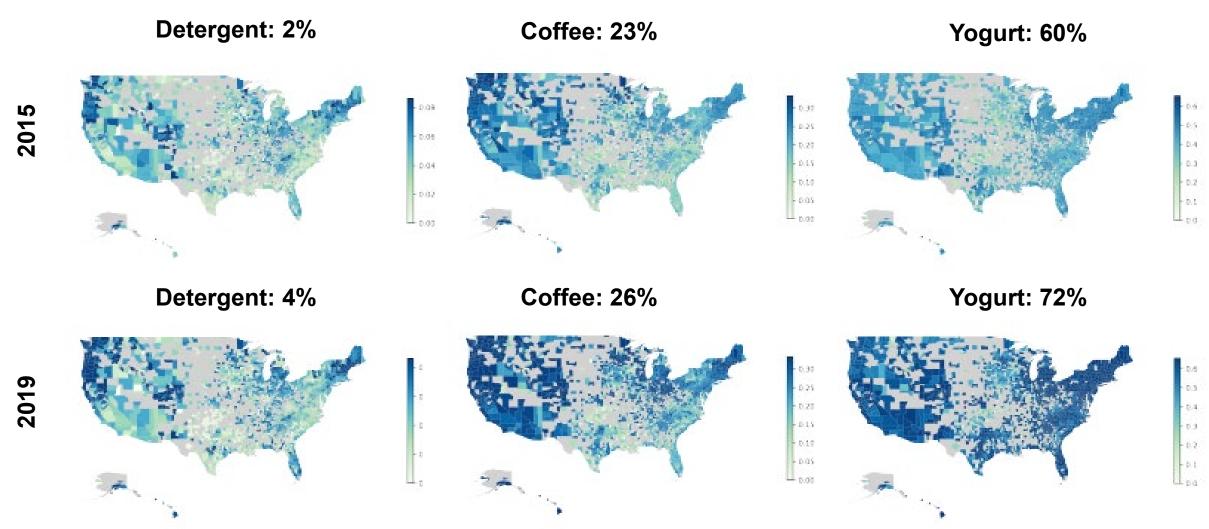


Sustainable Market Share Index™: Research Question 7



Sustainable Market Share Index™: Impact of Availability (2019)

High correlation between availability and share ranging from .79 to 1.0



Note: The darker the blue, the greater the availability; Share of sustainability marketed products are the percentages listed

About the NYU Stern Center for Sustainable Business

The NYU Stern Center for Sustainable Business was founded on the principle that sustainable business is good business; delivering better financial results while protecting the planet and its people. We aim to help current and future business leaders embed social and environmental sustainability into core business strategy, resulting in competitive advantage and resiliency for their companies as well as a positive impact for society.

Randi Kronthal-Sacco is a Senior Scholar for the NYU Stern Center for Sustainable Business. Ms. Kronthal-Sacco was a senior executive at Johnson & Johnson and is a Stern alumna.

Tensie Whelan is a Clinical Professor at NYU Stern and Founding Director of the NYU Stern Center for Sustainable Business.

Please contact <u>sustainablebusiness@stern.nyu.edu</u> or <u>rkrontha@stern.nyu.edu</u> with any comments or questions.

Acknowledgments

The NYU Stern Center for Sustainable Business would like to thank the Circana organization for the generous donation of its data.

A special thank you to Circana's Joan Driggs, and Sheila Noojibail

We are grateful to Professor Bryan Bollinger for his continued academic support.

We would like to acknowledge the research support of current and previous NYU Interns Sherry Hu, Alicia Xu, Mohamed Nazar, Hurkan Kurtolglu, Prachika Agarwal, Alexandra Walstad, Dorea Noveaz, Samuel Wallace, Ethan Ou, Jessica Tou, Patrick Wu, and Anirudh Dave as well as market research consultants Elena Kanner and Biren Shah.



Center for Sustainable Business

Appendix

Methodology

Data

Circana (formerly IRI) Point of Sale, HH panel, and e-market insights data in all measured channels in U.S.

Selection Criteria

- 36 categories examined held the largest dollar volume; in a few cases, smaller categories were included to ensure fair representation of all major CPG segments
- Over 250,000 products reviewed; products with 0.00 dollar share of category were not considered unless identified as organic.
- Due to lack of visibility into private label product claims, private label was not included as sustainability-marketed, with the exception of organic private label in the food categories.

Sustainability-Marketed Products Determination

- Identified all SKUs for each category marketed as sustainable with on-package communication, e.g. 3rd party certification (e.g. USDA Organic), containing organic ingredients, no phosphates, no phthalates, etc.
- Sustainability determination focused on the product itself, not the recyclability of the package.
- A very conservative approach was adopted. For example, the following was not considered sustainable:
 - Natural with no other sustainable identification
 - Recyclable packaging

Other Assumptions/Information

- Products that were deemed sustainability-marketed in 2018 were considered sustainability-marketed in 2015. This likely depressed the growth numbers in the earlier years.
- We made no attempt to assess if products marketed as sustainable were, in fact, sustainable. Instead, we focused on whether the marketing of a product as sustainable would drive purchase.

All estimates and analysis in this paper based on Circana data are by the authors and not by Circana, formerly Information Resources, Inc.