



SAYA



南亞塑膠公司
NAN YA PLASTICS CORPORATION

a responsibly sourced brand by Nan Ya Plastics



Putting things in perspective...

Nan Ya Plastics

#800

US\$20.06B

Vietcom Bank

#814

US\$18.13B

Formosa Plastics

#981

US\$19.49B

Formosa Petrochemical

#1062

US\$26.46B

About Nan Ya Plastics Group

Global Employees **11,427**

Established Since **1958**

Registered Capital **US\$2.69 billion**

Forbes

The World's
Largest Public
Companies
2023



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**on average
15% of fabric become cutting scrap waste in
garment production**



**This equals about
300,000 tons
of textile waste each year
in Vietnam**

Cutting scrap is also calculated into brands' product CO2 emission



- Fuel combustion
- Company vehicles
- Fugitive emissions



- Purchased electricity, heat and steam



- Purchased goods and services
- Business travel
- Employee commuting
- Waste disposal
- Use of sold products
- Transportation and distribution (up- and downstream)
- Investments
- Leased assets and franchises

*Ref: What are Scope 3 emissions and why do they matter?, CARBON TRUST

<https://www.carbontrust.com/our-work-and-impact/guides-reports-and-tools/what-are-scope-3-emissions-and-why-do-they-matter>



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Brands starting to take action on Scope 3 (cutting scrap waste)



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Climate & Energy | Industry Insight | Circular Economy | ESG Investors | Climate Change

Despite climate pledges, fashion brands 'way off track' on cutting carbon from the catwalk

targets 56% reduction in Scope 3 emissions

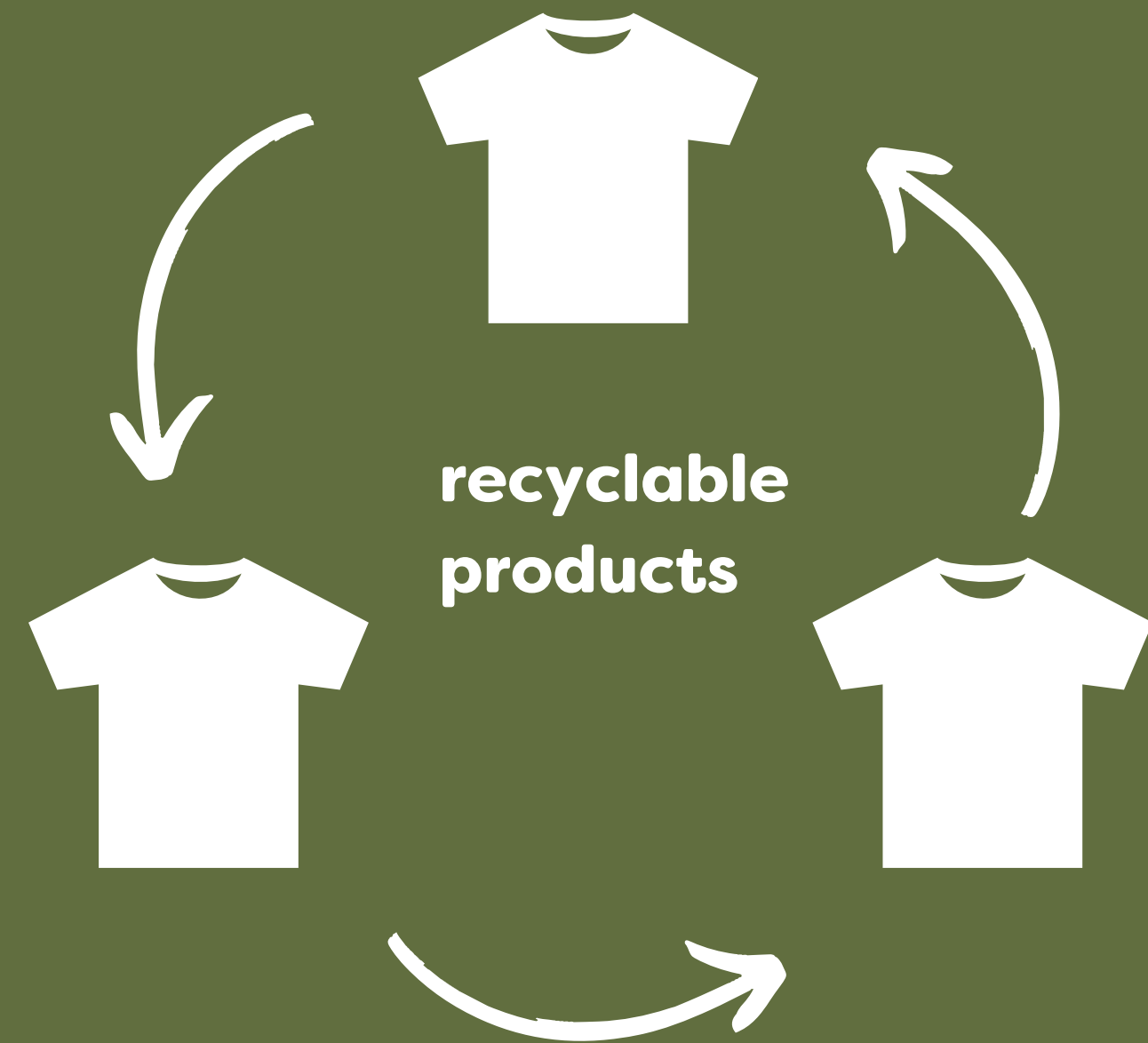
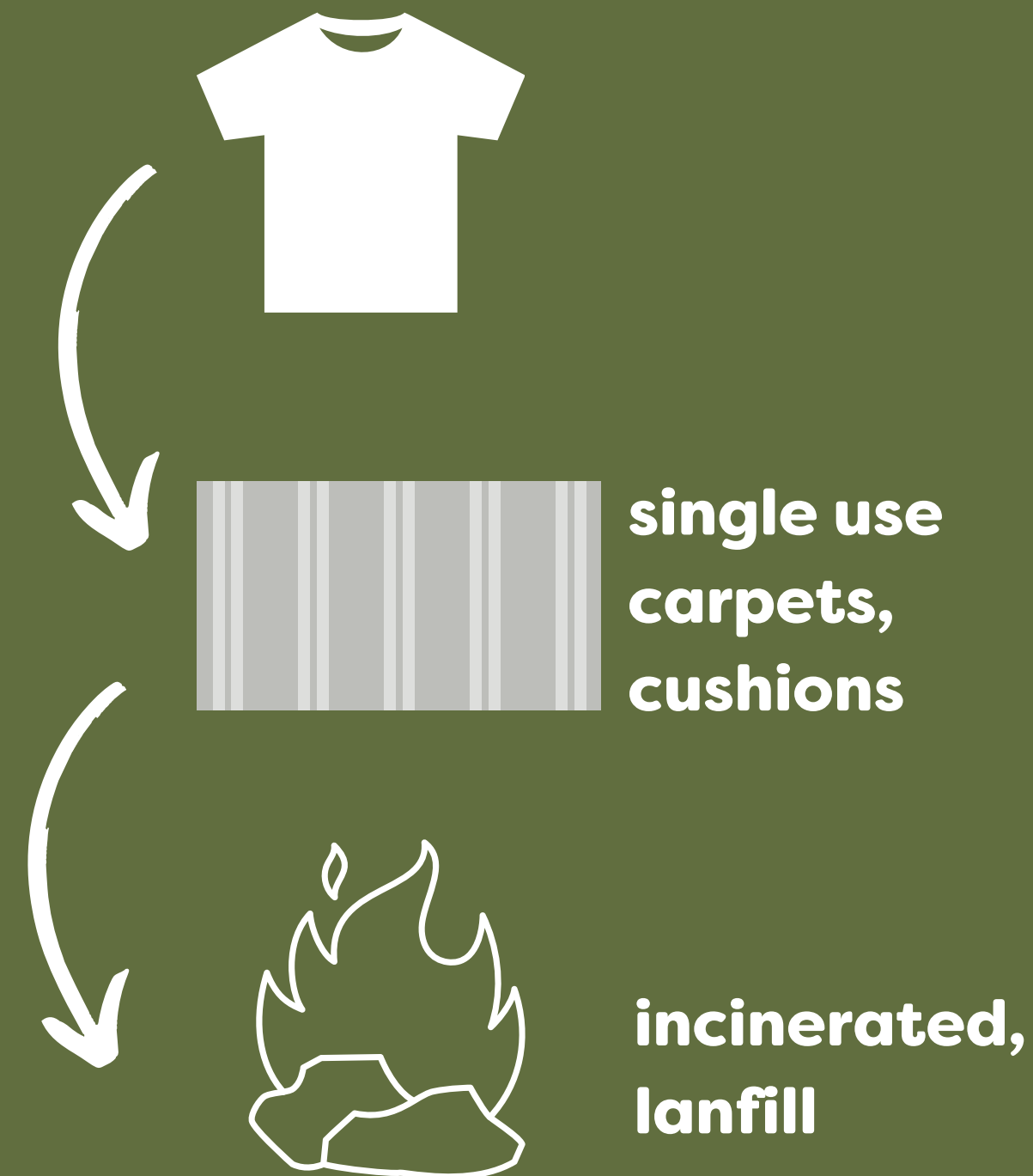
Scope 3 emissions by
2030, compared with a 2019 baseline. In the case of most companies, that's Scope 3 emissions are 90
times emissions in its own operations. Its latest report, for 2022, shows it's so far cut them by 7% to
around 5.6 million tonnes, compared with its 2019 baseline. And this progress doesn't include the
consumer use phase, which adds another 1.4 million tonnes.

Different Approach on Cutting Scrap

Downcycle

vs.

Recycle



Fast fashion doesn't recycle your used clothes

The circularity scam that always ends up in a landfill



- **Downcycled or Destroyed:** Seven items were quickly destroyed, in poor condition. Some were used as fuel to produce energy in cement plants, contrary to the brands' claims about downcycling or burning for fuel only items not suitable for reuse.
- **Downcycled or Destroyed:** Only five items have found a second life in second-hand clothing stores or with customers on the same continent. Although promising, this used clothing trade in some regions contributes to the waste problem in countries with significant challenges.
- **Just disappeared:** Several items have been trapped in the global used clothing trade, stagnating for months in indeterminate locations or warehouses, never fulfilling brands' promises of reuse or recycling.
- **Sent off to Africa:** The most controversial category involves clothing shipped to African countries, entering the massive second-hand clothing markets with

Recycling Feedstock Comparison

Feedstock	Recycling method	Price	Color	GHG (kg CO ₂ e)	Water Use (m ³)	Circularity
Bottle	Mechanical	Standard	White	0.53	0.14	NO
100% PET textile	Mechanical	Standard	White - Yellow	0.53 + x	0.14 + x	YES
Blended fiber or textile	Chemical	4x Standard	White	1.3 + x	2.1 + x	YES

x = resource for textile pre-treatment

*Ref:

Nan Ya Plastics, Taiwan

2023 American Chemical Society (ACS) Sustainable Chem. Eng.



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Cutting Waste Recycling Challenges



Paper marker



Fabric with blends & treatment



Scrap separation by fiber content

Textile to Textile Recycling Needs your help

- **Building new infrastructure together -**
 - **Sorting**
 - **Handling**
 - **Logistics**
- **Seeking collaboration with Vietnamese stakeholders to enable textile waste circularity**



SAYA is the first fiber brand collaborating with brands, waste handlers, and garment factory directly on textile to textile circularity project



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Innovating Renewal Technologies

Q&A

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 [SayaRenew.com](https://www.SayaRenew.com)

**Contact us if you have
100% PET feedstock!**