

REUSABLE TRANSPORT PACKAGING CASE STUDY

SAVING MILLIONS BY SWITCHING TO CORRUGATED PLASTIC BOXES

INCREASING SUSTAINABILITY AND PROFITS

As more companies transition away from single-use materials and open loop logistics, traditional cardboard RSCs are being replaced by reusable corrugated plastic boxes. Since corrugated plastic boxes are inherently moisture resistant, they offer a significantly longer service life, and can be easily cleaned and reused over and over again.

This case study examines a real world use case scenario based on a period of 5 years' projections combined with extrapolated data from a six week supply in 2018.



A pallet of 25 fully-loaded corrugated plastic boxes passes through an RFID scanning portal, which tracks their voyage into the distribution channel.

SUSTAINABILITY IMPROVEMENT RESULTS

**83%**

Reduction In Energy Consumption

**96%**

Reduction Of Solid Waste Material

**86%**

Reduction In Greenhouse Gases

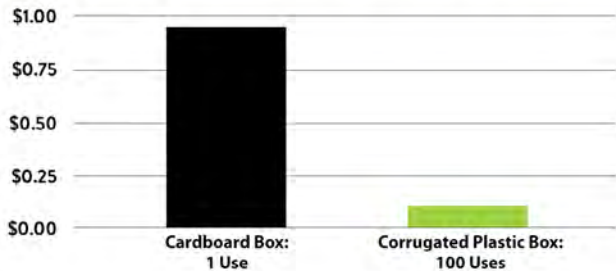


Flattened down and secured in purpose-built corrugated plastic tubs, 150 boxes return to the production facility on the same sized pallet, delivering an impressive return ratio of 6 to 1.

ROI AND ENVIRONMENTAL BENEFITS WITH REUSABLE PACKAGING

How Do Corrugated Plastic Boxes Drive Down Distribution Costs?

Reusable Boxes Deliver A Much Lower Cost Per Use.



16 Distribution Centers

Facts & Figures: Cardboard Boxes

Customer Ships an Average of 6 Million Boxes Each Year

Weekly Boxes Needed:

- 6,000,000 / 52 wks / 1 wk = 115,385 boxes
- 115,385 x \$0.92 = \$106,154 weekly cost
- \$5,520,018 annual cardboard budget
- Annual recycling revenue @ \$38/ton: \$191,520/year
- Net Cost: \$5,328,480
- Five Year Cost: \$26,642,400

Facts & Figures: Plastic Boxes

Year One, 6 Weeks Supply:

- 692,307 boxes req'd x \$6.88 ea. = \$4,763,072 start-up

Year Two and Beyond:

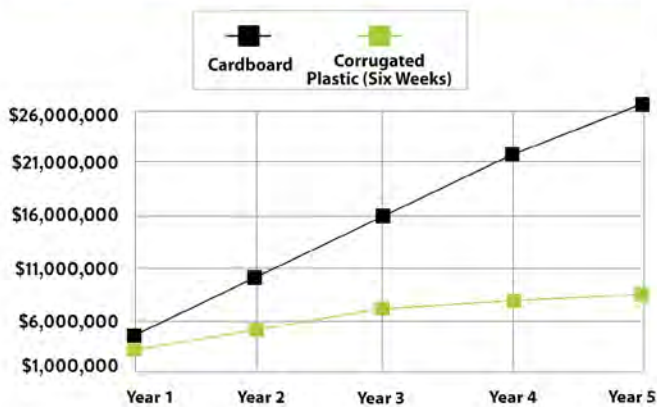
- 20% Growth & Maintenance Factor: \$952,614

Total Five Year Cost:

- \$8,573,530

Note: The price of \$6.88 is based on 150,000 pricing of \$6.40 plus a Master Tub for returning empties at \$14.50 divided by thirty boxes per container adding \$0.48 to each box factor.

Customer Saves \$18 Million Over 5 Years (System Wide)



16 Distribution Centers



6 Million Shipments/Yr.

5 Years System Wide

	Paper	Plastic	Savings
Energy (Net, million Btu)	495,799	84,125	83%
Solid Waste (Tons)	5,544.5	224.4	96%
Global Warming (Tons CO ₂ equivalents)	35,110	5,072	86%

EPA Criteria Pollutants (lbs.)

Particulates	209,117	2,868	99%
Nitrogen Oxides	323,388	52,544	84%
Sulfur Oxides	561,175	53,308	91%
Carbon Monoxide	296,758	40,377	86%
Lead	29.02	0.1705	99%



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