

Reference Sources

- (1) FPA, "Flexible Packaging: Less Resources. Less Footprint. More Value." Case Study Brochure
- (2) DuPont Packaging Awards for Innovation
- (3) The Dow Chemical Company, Dow Presentation (equation data): American Chemistry Council, US Energy Information Administration
- (4) U.S. EPA, "Municipal Solid Waste in the United States: 2007 Facts and Figures"
- (5) FPA/Battelle Memorial Institute Report on the Sustainability of Flexible Packaging



Flexible Packaging Association

www.flexpack.org

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Flexible Packaging Uses Less Energy Generates Less CO₂ Emissions Contributes Less to Landfill

Examples of beverage packaging ^(1,4,5)

Package Type	Beverage Weight	Package Weight	Product to Package Ratio	*MSW Landfill per 100 g Product	Energy Consumed MJ/8 oz	Emissions kg CO ₂ e /8 oz
Glass Bottle & Metal Cap	8 oz (236 g)	198.4 g	1:1	54.5 g	3.36	0.29
Plastic PET Bottle & Cap	8 oz (236 g)	22.7 g	10:1	6.0 g	3.0	0.18
Aluminum Can	8 oz (236 g)	11.3 g	21:1	2.4 g	0.99	0.08
Flexible Standup Pouch	6.75 oz (199 g)	5.7 g	35:1	2.8 g	0.45	0.02

* recycling rates factored



Fast Facts
Third Edition

Less Resources. Less Footprint. More Value.

Flexible Packaging

Manufacturing, distribution, and use

- Consumes less energy and fewer natural resources
- Generates less CO₂ emissions
- Results in higher product to package ratio
- Requires fewer trucks for transportation, using less fuel and creating less emissions
- Provides many consumer conveniences:
 - Extended shelf life
 - Easy storage
 - Microwaveability
 - Recloseability

Flexible Packaging Creates Less Footprint

Energy consumption and environmental impact during transportation is greatly reduced.

Truckloads needed to transport packaging for equal amounts of product ⁽²⁾

26 truckloads of unfilled glass jars



1 truckload of unfilled flexible pouches



Flexible Packaging Uses Less Resources

Examples of packaging needed to package 60 pounds of beverage ^(1, 3)

50 pounds of glass



6 pounds of Rigid PET



3 pounds of aluminum



1.5 pounds of flexible plastic

