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RECOVERY OF POST-USE PLASTICS

Southern California Conversion Technology Conference

American Chemistry Council
Why do we use plastics?

- Reduce material use, weight
- Maintain freshness
- Reduce breakage
- Reduce transportation costs through light weighting
- Economical
- Reduce waste

- Plastics reduce energy use by 80% and alternatives would increase GHG emissions by 130% across a variety of applications¹
Trends in Plastics Recycling

- Plastics recycling (tons) is UP
  - Bottles (3 billion lbs)
  - Bags, wraps and film (1.17 billion pounds)
  - Non-bottle rigids (1.3 billion pounds)
- Consumer access to recycling is UP
- Reasons to recycle plastics remain strong
- State, municipal adoption of best practices is UP
- Manufacturer, brand owner, retailer engagement is UP
Energy & GHG Reductions

Greenhouse Gas

- Steel Can: 4377
- Plastic Canister: 3310
- Plastic Brick: 1051
Plastics are Captured Energy

- Natural Gas
- Crude Oil
- Non-Recycled Plastics
- Petroleum Coke
- High Grade Coal
- Low Grade Coal
- Wood

BTUs per LB
Vision for Plastics Recovery

Natural Gas & Oil

97% Fuels, Power, Other
3% Plastics Production

Plastic Production

Fabrication

Use

Consumer Reuse

Post-use Collection

Feedstock Recovery

Recycle

Energy Recovery
Thank You!

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