What's New in Glass Recycling?

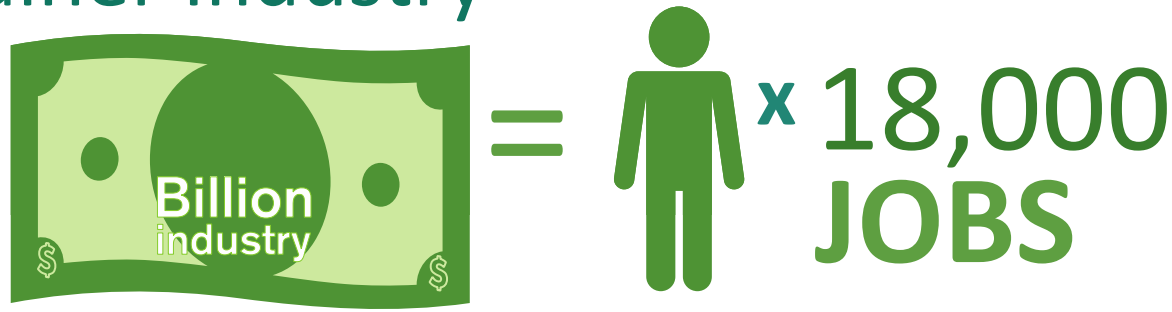
New Jersey WasteWise
Business Meeting

Hamilton, NJ

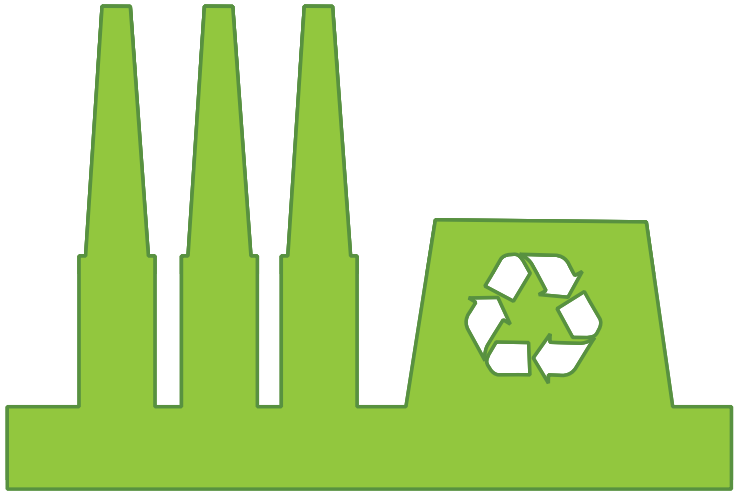
May 10, 2017

120 Year Old Beer …… *"Pretty Good"*

Glass Container Industry



Glass Bottles reduced in weight



- U.S. glass container manufacturers operate 45 plants in 22 states
- Annual $5.5 billion industry
- Approximately 28 billion glass containers manufactured in 2016

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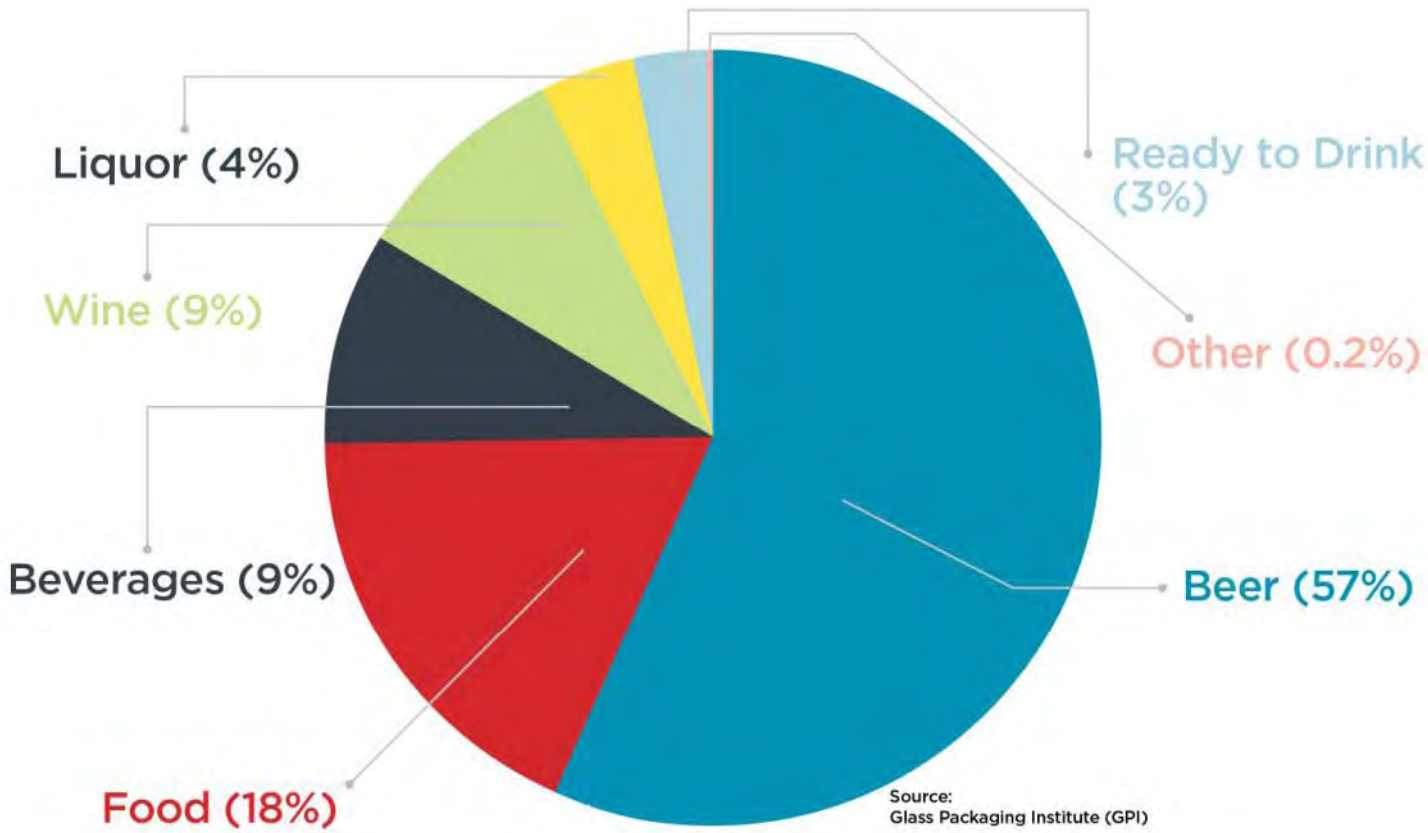
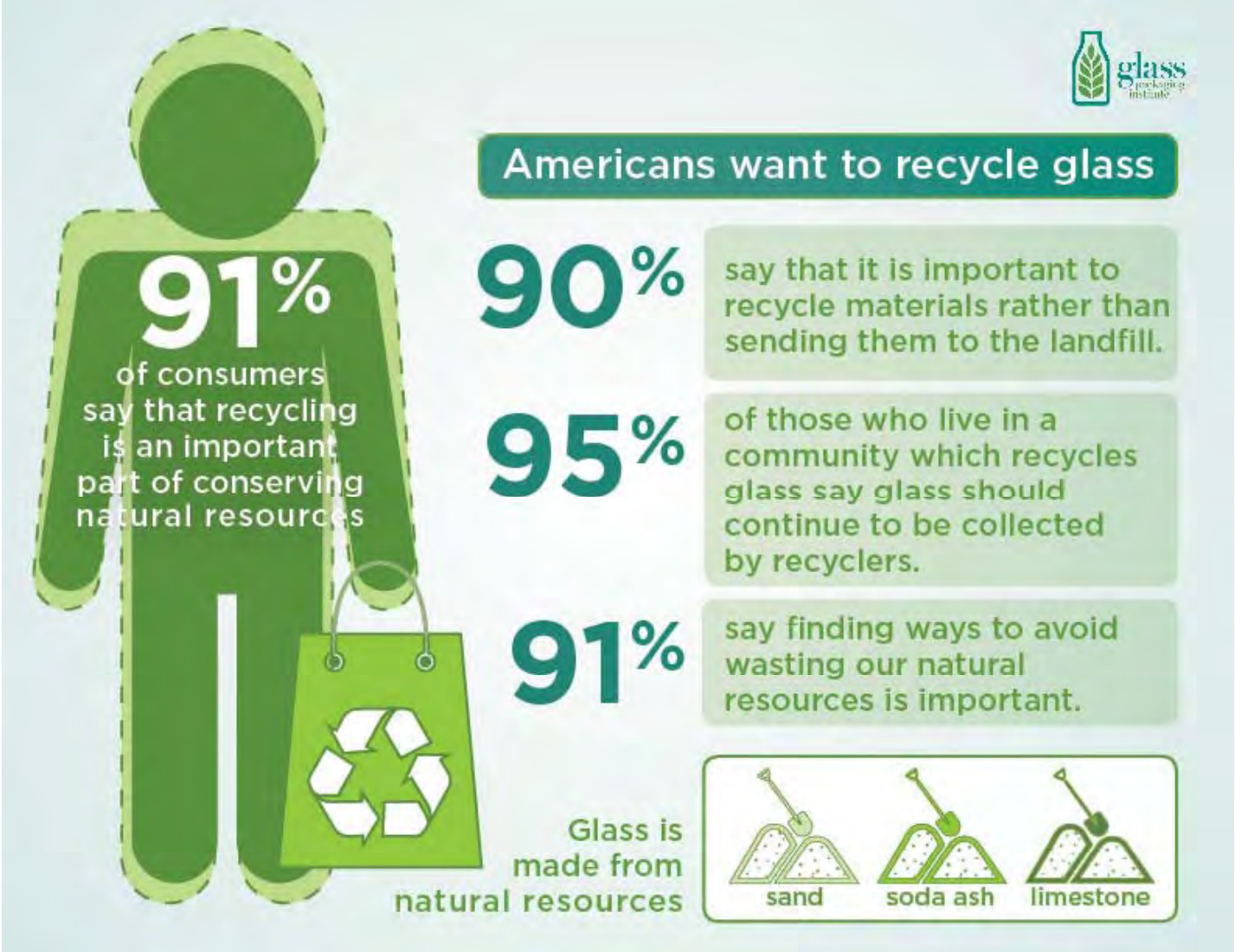
2016 U.S. Glass Container Shipments by Category



Consumers Want to Recycle Glass Containers



*Source: 2016 SurveyUSA poll

Glass Recycling Helps Communities Reach Recycling Goals

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Consumers Oppose Landfilling

51%

of consumers say top reason to recycle is to reduce amount of waste going to landfills

41%

say amount of waste in oceans has worsened

Source: Keep America Beautiful and Natural Marketing Institute "Consumer Tracker Recycling Survey," November 15, 2016.

Strengthening Glass Recycling Programs

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Recycled Glass Specification

Voluntary Recycled Glass Standard – Improving quality and setting clear expectations for haulers, recyclers and communities

Higher Quality Glass,
Less Contamination &
Undersize Materials

ISRI
Institute of Scrap Recycling Industries, Inc.
Voice of the Recycling Industry™

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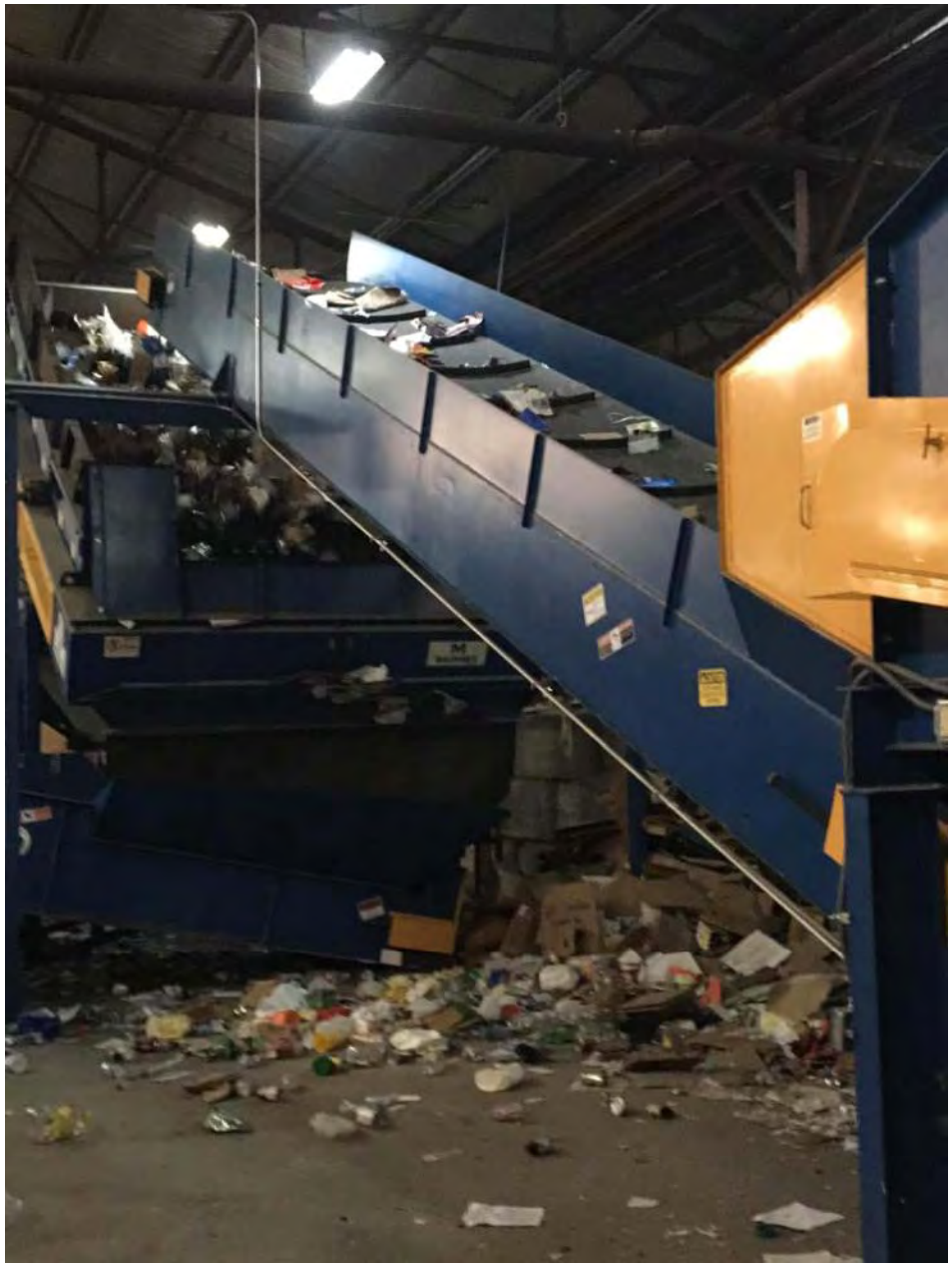
Partnerships to Improve Quality

North Carolina:

- Support two MRFs to improve glass recycling & recovery
- MRFs leveraged funding with NC DEQ grants, complementing significant company investment
- Market proximity: Nearby glass processing and manufacturing plants



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Partnerships to Improve Quality

North Carolina Investments & Modifications:

- Move glass sorting equipment to MRF front end
- Install glass breaker screens
- Install 3-deck OCC screen
- Glass bunker storage

Partnerships to Improve Quality

Early results promising:

- 5%-9% increase in tons glass recovered
- Lower contamination & higher revenue for glass
- Additional cost savings from moving glass sorting & cleaning equipment to front end
- Reduced wear and tear on rubber discs, fiber separation screes and other MRF equipment

Glass Recycling Coalition Membership

Consumer brands	Glass manufacturing	Waste hauling	Recycling processors	Trade organizations
Heineken	DIAGEO	WASTE MANAGEMENT	KNAUF INSULATION	
Ardagh Group	GALLO GLASS COMPANY		SIERRA NEVADA	BA BREWERS ASSOCIATION
STRATEGIC MATERIALS	THE RECYCLING PARTNERSHIP	ROCKY MOUNTAIN	ALLAGASH BREWING COMPANY	FETZER
NAIMA	PEGASUS	Pernod Ricard	RUMPKE	BALCONES RESOURCES
EMC MUNICIPAL RECYCLING	REPUBLIC SERVICES	National Waste & Recycling Association	ISRI	
glass packaging institute	EMTERRA Environmental	MACHINEX	Constellation Brands	casella RESOURCE SOLUTIONS

www.glassrecycles.org

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MAKING GLASS RECYCLING WORK

The Glass Recycling Coalition brings together a diverse membership of companies and organizations to make glass recycling work: glass manufacturers, haulers, processors, materials recovery facilities, capital markets, end markets, and brands that use glass to showcase their products.

Glass Recycling Coalition Focus

All glass containers are continuously recycled to the highest and best use, maximizing economic, environmental and social benefits.

Best practices

Strengthening glass markets

Providing solutions-oriented resources-public-sector

Collaborating for success for glass recycling

Partnering with Glass Champions

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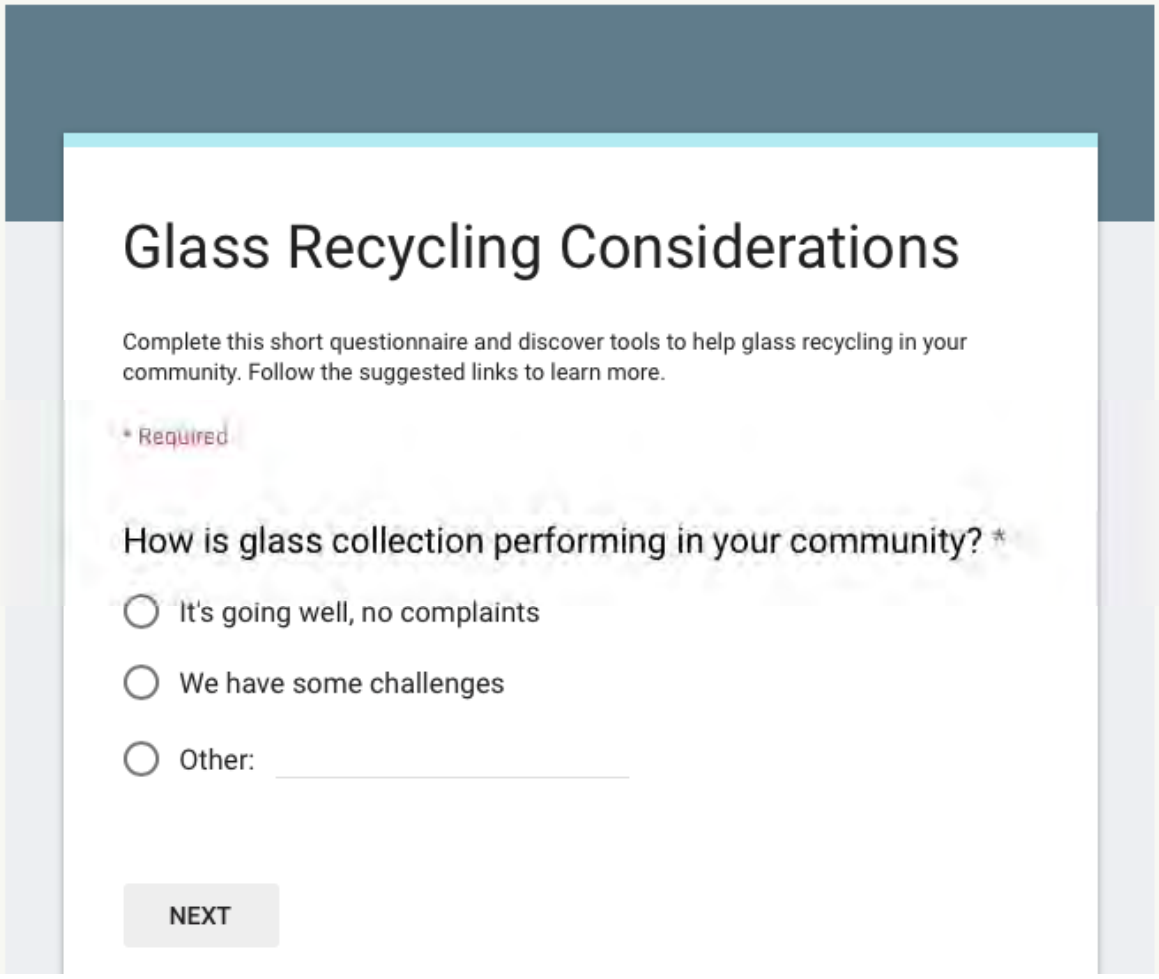
Action Plan in Progress

Identifying best practices and provide tools for municipalities to better recycle glass

Equip a network of glass champions to act as community resources for making glass recycling work

Glass Recycling Decision Tool

Use the following tool to assist you in making informed decisions about glass in your recycling program. Answer questions and follow the links to learn how other communities are making glass recycling work.



Glass Recycling Considerations

Complete this short questionnaire and discover tools to help glass recycling in your community. Follow the suggested links to learn more.

* Required

How is glass collection performing in your community? *

- It's going well, no complaints
- We have some challenges
- Other: _____

NEXT

Partnership With Fiberglass Industry

- Operates 39 plants in North America
- Recycled glass is a critical manufacturing input
- Similar to the glass container industry, requires properly sorted glass that meets industry specifications
- Purchased roughly 750,000 tons of recycled glass in 2016

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Thank You!

Learn more about GPI:

www.GPI.org

www.UpgradeToGlass.com

GlassRecycles.org