



arc
cardinal

creator of experiences.

Sustainability

Arc Cardinal Resource Guide

Our Mission & Vision

Create. Curate. Celebrate.

Elevating your guest's experience is your priority. Bringing your vision to life is ours. No matter the experience, we are here to help you create a remarkable one. Our expertly crafted collections of tableware, buffetware, and accessories supports the needs of today's chefs, mixologists and sommeliers.



Our Sustainable Commitment

Innovative glass for a better world.™

Arc's Global Aspiration - A Circular Tabletop Economy
We aspire to be green leaders of our industry, by building a global road map that can deliver sustainable solutions for our partners and end users.

Innovative glass for a better world.™

Glass as a superior material. It is safe,
non-porous and 100% recyclable.

More Durable
= Less Breakage
= Less Waste

Our Materials



High-performance crystal glass. A new generation of lead-free crystal exceeding 2,000 industrial dish washing cycles. Superior strength, complete transparency, longlasting brilliance and perfect acoustics.



More resistant to mechanical and thermal shock than regular annealed glass; up to 5X more resistant to breakage.



A thermal strengthening after-process for chip reinforcement and chip resistance.



Preferred by high volume establishments for strength, stackability, bacteria resistance, style and value.



FULLY INTERGRATED RESOURCES

Arc both manufactures and decorates our glassware all under the same roof in the USA. We are the **ONLY** glass manufacturer in North America able to do so.

We also employ UV and Digital decorating processes eliminating the need for any lehr (oven).

This leads to:

- Heavy metal free
- More energy efficient in curing process



***Reducing Emissions
& Energy Consumption***

AIR FILTRATION SYSTEM



To make itself a true leader in clean glass making, Arc invested millions in its North American production facility to reduce air emissions by 75%.



Arc uses a Continuous Emissions Monitoring (CEMS) systems to ensure our reduced total of Nitrogen Oxides (NOx), Sulfur Dioxide (SO2), and particulate emission commitment.

ENERGY SAVINGS



Reducing Greenhouse Gas emissions by almost 2,500 Metric Tons in 2019.

40% of our Pre-Heating Energy in our furnace is provided by the melted glass exhaust return fumes.

LED RETRO-FIT PROJECT



THIS IS EQUIVALENT TO:



Equivalent to planting 30,000 trees and grown for 10 years.



Equivalent of removing 245 passenger cars from the road annually.

RAILWAY TRANSPORTATION

Arc North America uses railway transportation of most of its raw materials.

On average, railroads are 3x-4x more fuel efficient than trucks. Reducing greenhouse emissions by 75% according to the Association of American Railroads.

ZERO WASTE BEHAVIOR



100% RECYCLED!



Arc reuses 99.9% of its post-production glass waste during manufacturing.

While giving the remaining 0.1% to our glass recycling partners who uses it for:

- glass frit and filtration
- fiber glass
- countertop manufacturing & more!

Approximately 30% of each of our glass products are made from internal waste glass (post production pre-consumer waste glass)

In 2023, Arc North America recycled 2,500 Tons of materials (cardboard, glass, shrink-wrap, brick, cans, and more)

Achieving 65% of all total waste recycled.



93% of water in production used is in a closed loop system.

AMBITION: BECOME A 360° SUSTAINABLE COMPANY



ZERO WASTE BEHAVIOR

To make itself a true leader in clean glass making, Arc invested in its North American production facility to reduce air emissions by 75%.

Arc CO2 Footprint
Measured CO2/ton of 1st Quality Glass

REDUCED
22%





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