

North Carolina

BUSINESS LEADERS

Use Recycled Content

ArdaghGroup



Henderson, N.C. — Vance County
Wilson, N.C. — Wilson County



PRODUCTS

Glass bottles and jars



MARKET

Food and beverage industry



RECYCLED CONTENT

Averaging 40% recycled content in the glass manufacturing process

BUSINESS STORY

Ardagh Group is a global supplier of infinitely recyclable, metal and glass packaging solutions for the world's leading brands. Ardagh operates 57 metal and glass production facilities in 12 countries, employing 16,000+ people with sales of approximately \$7 billion. Ardagh Group, Glass — North America designs, develops and manufactures 100 percent and endlessly recyclable glass bottles and jars for the beer, beverage, food, spirits and wine markets. In North America, Ardagh is the second largest glass container manufacturer, with 14 production facilities. Ardagh is currently the largest domestic glass container supplier to the food, spirits and wine industries in the United States. Ardagh's Henderson, N.C., glass production

facility manufactures glass containers for the food and spirits markets, as well as some wine. This facility employs approximately 280 hourly and salaried employees. The Henderson facility is FSSC 22000 Certified, which is a benchmark standard for the Global Food Safety Initiative. Ardagh's Wilson, N.C., glass production facility manufactures glass containers for the beer, beverage and food markets. This facility employs approximately 290 hourly and salaried employees. Both the Henderson and Wilson facilities are ISO 14001:2015 Certified, meaning they minimize their impact on the environment, comply with applicable laws and regulations, and work toward continuous environmental improvement.

“As a global supplier of infinitely recyclable glass packaging, Ardagh is proud to operate two glass production facilities in North Carolina. We are honored to employ nearly 600 people in the state, creating sustainable, innovative packaging for food and beverage brands across the U.S.”

**— John Sadlier
Chief Sustainability Officer of Ardagh Group**

RECYCLED MATERIAL SOURCING

All of Ardagh's glass containers are made with recycled glass ("cullet"). In North America, Ardagh uses an average of 40 percent recycled content in the glass manufacturing process. As part of its drive for sustainability, Ardagh works hard to continuously increase the amount of cullet in the glass production process. Demand for recycled glass is higher than its availability; therefore, it is necessary to add virgin raw materials (sand, soda ash and limestone) to the production process. Ardagh uses as much recycled glass as possible, as this allows raw materials to melt at lower temperatures, thereby reducing energy costs and carbon emissions. As a rule of thumb, a 10 percent increase in cullet use decreases energy consumption by 3 percent and CO₂ emissions by approximately 5 percent. The key to reducing virgin raw materials to save energy during production and close the material loop is an increase in recycling rates. However, in order to increase the amount of recycled material, it is critical that the quality of the recycled glass aligns with the quality of the raw materials. In the United States, there are a number of efforts underway to continue to improve the supply chain, quality and consistency of recycled glass.



OTHER SUSTAINABILITY ACHIEVEMENTS

EcoVadis, an independent sustainability rating platform, has awarded its Gold certification for sustainability performance to Ardagh for the fifth year. Gold certification is one of the highest levels of recognition from EcoVadis, only attained by the top 5 percent of companies assessed. The Carbon Disclosure Project (CDP) also awarded Ardagh Group its Leadership Class ratings for sustainability performance—scoring Ardagh Group A- for climate change and A- for water management. The CDP has scored Ardagh "A" for Supplier Engagement based on its work with suppliers around climate change. The CDP is a not-for-profit that runs a global disclosure system, which helps different stakeholders to manage environmental impacts.



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