



Title: More Than Recycling – How Cullet Drives Sustainable Glass Manufacturing

The glass industry is facing growing pressure to reduce energy consumption, lower CO₂ emissions, and use fewer raw materials. At the same time, glass manufacturers must maintain high product quality and remain competitive. Increasing the use of cullet is one of the most effective ways to achieve these goals.

However, higher cullet rates require more than simply adding more recycled glass to the batch. Efficient systems are needed to collect, process, transport, and reuse cullet throughout the production process.

This presentation will show how modern technologies can support sustainable glass production along the entire recycling chain. Starting with the collection of hot factory cullet using scraping conveyors, the presentation will cover cullet crushing, storage, handling, and dosing. Further focus will be placed on cullet preheating technology, which recovers waste heat and helps reduce furnace energy consumption. Finally, complete recycling plant concepts for factory cullet and post-consumer glass will be presented.

Using examples from glass plants around the world, the presentation will demonstrate how an integrated approach to cullet recycling can reduce energy consumption, lower operating costs, decrease CO₂ emissions, and support the transition towards a more sustainable and circular glass industry.