



Title: Glass Forward: Turning Decarbonization into Industrial Reality

The glass industry is entering a decisive phase. Decarbonisation is no longer a distant ambition, but an industrial transformation that must be implemented while preserving quality, reliability, competitiveness and production continuity.

This presentation will explore where the sector stands today and how it can move forward through a pragmatic, technology-neutral and product-specific approach. There is no single pathway applicable to every plant, and there is equally no single glass industry. Container and soda-lime glass, glass-fibre, pharmaceutical borosilicate glass, sodium silicate and other specialty glasses have different melting behaviours, quality requirements, furnace geometries, energy profiles and operational constraints.

Electrification, hydrogen, hybrid melting, heat recovery, carbon capture, increased cullet use and advanced process control must therefore be evaluated and combined according to the product, the process and the local industrial context.

Drawing on Stara Glass and group LTT experience, as well as on European innovation programmes including LIFE SUGAR, H2GLASS and COREu, the presentation will show how decarbonisation can evolve from isolated technologies into an integrated industrial strategy.

The future of glass will not be defined by one breakthrough solution, but by the ability to combine engineering, materials, digitalisation and execution into scalable, product-oriented pathways delivering measurable results under real operating conditions globally.