

Annual report 2021

TC13 Environment

Chair	Walter Battaglia, SSV, Italy
Vice-Chair	Bariş Orhan, Şişecam, Turkey
Secretary	Mark Pudner, British Glass, UK
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Members

Guy Van Marcke, AGC Glass Europe, Belgium
Karlheinz Gitzhofer, HVG, Germany
Phil Ross, GICI, USA
Hugues Abensour, St. Gobain, France
Etienne Senechal, Arc International, France
Egolf Maier, St. Gobain Isover, Germany
Meg Garakani, Guardian, USA
Milena Marchegiani, Bormioli Rocco, Italy
Luca Severini, O-I Manufacturing, Italy
Loic Didillon, Guardian, Europe
Rachel Yates, NSG, UK
Peter Ferenci, Tungsram, Hungary
Ulrike Aldenhoff, BV Glas, Germany

Summary

TC13 is the environment committee of ICG. All environmental issues affecting the glass industry are covered. Members are drawn from industry, consultancies and glass federations. The TC13 meets twice a year and produces extensive minutes detailing the many topics addressed. Subjects range from characterising and controlling glass furnace emissions to understanding the impact of new regulations on the different sectors of the industry. The TC13 regularly produces briefing papers and journal articles and is a source of important expertise for the industry.

All members actively contribute during the meetings. Minutes and Annual Reports are written by the secretary. Reports and external publications are written by the secretary and jointly authored.

TC13's own website, kindly hosted by Celsian, houses an extensive collection of data and is regularly updated with useful information on the work of the TC.

<http://tc13.celsian.nl/> (Note that the bulk of the documents are in a members-only password-protected area.)

Activities in 2021

The first meeting of 2021 was held by web conference due to the on-going restrictions in place to deal with the Covid-19 pandemic. The meeting had 22 participants (including seven invited guests).

The meeting first covered ICG business, which included an update from ICG on the ICG 2030 Project. The group were informed that the nomination of Mr. Kasper for the Turner Award had been successful and that TC13 had also been allocated €3000 of ICG funding towards the waste gas volume flow project.

The committee then addressed measurement of emissions from glass furnaces. This included discussions on the calculation methodology for flue gas flow rate for different fuels and a comparison stoichiometric method against the EN12952 procedure.

There was a presentation about the SAGITTARIO furnace and the monitoring work which had been carried out to measure the CO and NO_x levels during the trials of the high efficiency air staging (HEAS) trials. The results demonstrated that HEAS was a suitable method for primary reduction of NO_x emissions.

The second meeting of 2021 was also held by web conference due to uncertainty over restrictions in place to deal with the Covid-19 pandemic. The meeting had a full agenda, and the 11 participants discussed many important environmental issues associated with the manufacture of different types of glass.

The meeting first covered ICG business, which included an update of the members list and the TC13 websites hosted by Celsian and ICG.

The committee then addressed measurement of emissions from glass furnaces. This included a presentation of measured and calculated waste gas flow data and discussion on benchmarking of NO_x and SO_x emissions.

The group then focused on decarbonisation which included a presentation on the British Glass net zero strategy and discussion on measurement of CO₂ emissions for emissions trading.

The meeting concluded with a round table on regulations and new abatement plants.

Plans for 2022

There are two meetings planned for 2022. The first meeting will be held online in March. The second will be held in September/October and will be hosted by Tungsram, in Budapest as part of the Association of Hungarian Silicate Industry (SZTE), International Year of Glass activities. Additional meetings for the waste gas flowrate project will be held online when required.