

**TC09 minutes for the meeting held 24 September, 2014
(Parma, Italy)**

2014_10 Attendees

Committee Member	Company
Alfeo Caputo	BDF Industries
Emre Dumankaya	Sisecam
Diego Ochoa Escalona	Vidrala
Toru Hasegawa	NEG
Roel van Herten	Philips
Richard Hulme	Guardian
Gustav Huuskes	Libbey
Sven-Roger Kahl	Ardagh
Yudai Katagami	NEG
Andrew Keeley	NSG
Stefan Laux	Praxair
Hans van Limpt	CelSian
Julien Pedel	Praxair
Christian Roos	IPGR
Simon Tiozzo	SSV

2014_11 Apologies for absence

Bernhard Fleischmann, Olga Martin Garcia, Valli Murthy, Wolfgang Schmidbauer

2014_12 Previous Meeting Minutes and Matters Arising

The Committee approved the meeting minutes of May 30, 2013 (Aachen, Germany) as a true and accurate record of the meeting after updating the attendance list.

Re: Minute 2014_07 it was noted that TC09 is open to working with GMIC to develop an energy workshop as part of the "Glass Problems Conference" agenda for 2016.

2014-13 New Members and Attendees Introductions

The Chairman welcomed the new members (Hasegawa, Katagami, Laux and Pedel) and briefly outlined the aims of TC09, current status and expectations. All attendees gave a brief summary of their responsibilities within their companies.

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2014_14 TC09 Website

Ochoa reported that TC09 Members will have access to the ICG website and that passwords will be provided by Professor Parker (Secretary, ICG).

2014_15 Definitions and Standardization

Based on the input from TC09 Members (see Minute 2014_06) it was noted that there is currently no uniform approach to defining energy efficiency or specific energy use within or across the various glass industry sectors. This non-uniformity is compounded by the fact that there is no common approach in the consideration of factors such as the effect of cullet, the efficiency of electric boosting, etc.

To address this it was agreed that TC09 should develop recommended Best Practices for defining energy use and efficiency so that companies within each glass sector can make useful comparisons. This approach should also help to explain some of the differences in performance between sectors and aid discussions with non-technical and/or external agencies.

Hulme proposed that TC09 should seek ICG financial support to enable member companies to participate in an energy comparison exercise using the CelSian definitions and database for comparative purposes. All data provided by TC09 members would be treated as strictly confidential and, if necessary, separate Confidentiality and/or Non-Disclosure Agreements could be put in place.

It was noted that “typical” cullet levels can vary widely from sector to sector so it would be useful if we could establish expected energy use and efficiency calculations to reflect this.

It was also noted that some technologies included in “Best Practices” such as the EU BREF were not in fact practical and/or widely used and TC09 members were asked to review such documents and make comments or suggestions the next meeting so that TC09 could determine which technologies are truly Best Practices rather than suggestions.

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ACTION ITEMS:

15/01 TC09 Members to report at the next meeting on useful Best Practices referenced in BREF.

15/02 Van Limpt and Hulme will provide examples of energy and efficiency calculations at the next meeting.

2014_16 Energy Efficiency Roadmaps

The Committee agreed to support the idea previously proposed by Schmidbauer to seek the collaboration of other energy-intensive industries to develop energy workshops. Roos indicated that the IPGR group would support such an approach and van Limpt reported that he had already approached the German BFI (steel industry) on behalf of GlassTrend.

2014_17 ICG Financial Support:

Van Limpt reported that TC09 requests for funding an energy workshop and/or an energy balance model from ICG were rejected at this time but would be considered if TC09 can provide more details to support these requests.

As reported in Minute 2014_15 above, Van Limpt will approach ICG to seek financial support to encourage TC09 members to provide energy data for a benchmarking study based on the CelSian model.

2014_09 Next Meeting

The next TC09 meeting will be held on Monday April 20, 2015 prior to the GlassTrend meeting in Bilbao, Spain.