

Energy Efficiency in Glass Production (TC09) – Annual report 2014

Chairman: Hans van Limpt
Vice-Chair: Wolfgang Schmidbauer
Secretary: Richard Hulme
Webmaster: Diego Ochoa Escalona
Members: Alfeo Caputo
Emre Dumankaya
Bernhard Fleischmann
Olga Martin Garcia
Roel van Herten
Gustav Huuskens
Sven-Roger Kahl
Andrew Keeley
Andrea Marostica
Valli Murthy
Christian Roos
Simone Tiozzo
Toru Hasegawa
Yudai Katagami
Stefan Laux

SUMMARY

The aims for 2014 were to define the different roles of the TC09 members and to define the working program for the next years. The first main activity is to define an uniform approach to define energy efficiency or specific energy use within or across the various glass industry sectors. The existing 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, age, furnace design etc.

TC09 will develop recommended Best Practices for defining energy use and efficiency so that companies within each glass sector can make useful comparisons. This approach will be used to explain some of the differences in performance between sectors and aid discussions with non-technical and/or external agencies.

The Committee also agreed to support the idea to seek the collaboration of other energy-intensive industries to develop energy workshops. TC09 will also support energy efficiency workshops specifically dedicated for the glass industry.

ACTIVITIES in 2014

1. TC09 Meetings

In 2014 two TC09 meetings were organized, the first meeting was organized on 30th May 2014 in Aachen, Germany following on the DGG - ACerS GOMD glass conference. The 2nd meeting took place on 24th September 2014 in Parma, Italy following on the ESG-ATIV conference. The meetings were attended by respectively 20 and 15 (guest-) members.

2. **TC09 Committee roles.** The committee confirmed the roles of vice-chairman, secretary and webmaster.

3. Summary of regulatory / energy market status

Members of TC09 explained about the different local situations with respect to energy efficiency regulations, carbon footprint and energy costs. Especially in Europe energy costs and energy related regulations (CO₂ trading) are high on the agenda of regulators as well as the industry. In Japan there has been a 20% year-over-year increase in electricity costs but there is no government initiative to discuss energy efficiency.

4. Website

All information of TC09 is available on a password protected part of the ICG website.

5. Definitions and standardization

Based on the input from TC09 Members 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.

PLANS FOR 2015 AND DELIVERABLES

- Organization of 2 annual meetings.
- Organization of a combined TC09 - Glass Trend Seminar "Furnace heating technologies and energy efficiency", on April 21/22, 2015, Bilbao Spain
- Preparations for an energy workshop with other energy-intensive industries.
- Preparation with the writing of a status report on energy efficiency in the glass industry.
- Review of literature on energy consumption and energy efficiency in glass industry.
- Evaluation of 'tools' to determine and benchmark energy efficiency of glass furnaces.