



## **45<sup>th</sup> ASEAN Conference – Our Net Zero Future**

### **Call for technical paper**

Glass production is a very energy-intensive process with significant emissions of greenhouse gases, particularly carbon dioxide (CO<sub>2</sub>). However, there are various strategies that can help move towards a net zero future for glass industry.

One approach is to improve the energy efficiency of glass production processes. This can be achieved through the use of more efficient furnaces, improved insulation, and the recovery and reuse of waste heat generated during the production process.

Another strategy is to transition to renewable energy sources, such as solar, wind, and hydroelectric power, to supply the energy needs of glass production facilities. Switching to renewable energy sources can significantly reduce greenhouse gas emissions associated with the production of glass.

Moreover, some glass manufacturers are also exploring the use of alternative raw materials to replace traditional sources. For example, some companies are exploring the use of recycled glass materials in the production process, which can significantly reduce the environmental impact of glass production.

Finally, carbon capture and storage (CCS) technologies can be employed to capture and store carbon emissions from glass production. This approach can help offset remaining emissions that cannot be eliminated through other means and move towards a net zero future for glass production.

Overall, a combination of energy efficiency improvements, renewable energy, alternative raw materials, and carbon capture and storage can enable the glass industry to move towards a net zero future.

Vietnam and ASEAN have both made some commitments towards a net zero future, though more action is needed to fully achieve this goal. ASEAN has also set some targets for climate action, including a goal of reducing greenhouse gas emissions by 23% by 2025. The organization has also launched the ASEAN Plan of Action on Energy Cooperation, which aims to promote renewable energy and energy efficiency in member states. Vietnam has committed to reduce its greenhouse gas emissions by 9% compared to business-as-usual levels by 2030, and this target could be increased to 27% with international support. The country has also set a goal of increasing the share of renewable energy in its total energy mix to 15-20% by 2030.

The 45th ASEAN Glass Conference organize from 25th – 29th Sept, 2023 with theme “Our Net Zero Future” is aiming to bring a forum where glass manufacturers, processors, traders, suppliers... and participants have more information on latest solutions, technologies and equipment which can be accompanied with manufacturers and governments in cutting off more CO<sub>2</sub> in glass production for “Our Net Zero Future”.



A book of proceedings with the papers of all oral presentation and speeches on equipment, material and technical for flat glass, hollow glass, and processing glass - will be available to each delegate, company or sponsor at the conference. The authors whose abstracts for presentation have been selected and accepted are requested to submit electronically a full paper or an extended abstract which will then be published as received without further proofreading by referees.

Deadline for abstract submission: 25<sup>th</sup> July, 2023

Deadline for full paper submission: 15th August, 2023

Manuscripts have to be submitted as Microsoft Word Files by electronically via email (vieglass@yahoo.com and lehai.kieu@gmail.com) attention to Dr. Kieu Le Hai.

**Abstract Guidelines:**

- The conference language will be English.
- The theme of conference: Our Net Zero Future.
- By submitting an abstract, the authors agree upon acceptance to prepare a manuscript for publications in the proceedings of the 45<sup>th</sup> ASEAN Glass Conference to be delivered at the conference.
- Abstracts may be used for free download or read on 45<sup>th</sup> ASEAN Glass Conference website.
- A full registration is required for at least the presenting author. The registration form can be found on the 45<sup>th</sup> ASEAN Glass Conference website (<http://afgminvietnam.com>).
- Please notify the conference office immediately of any change in the presenting author or a cancellation.
- A confirmation of receipt will be sent to the corresponding author by e-mail. If you do not receive a confirmation, please contact the conference office.
- Upon review of the abstracts, a notification of acceptance will be communicated to each author together with an invitation to register to the 45<sup>th</sup> ASEAN Glass Conference.
- Deadline for electronic submission of a full paper is August 15<sup>th</sup>, 2023.
- All oral presentations will be using a beamer. Instructions for presenting your paper will follow in due time.

**Abstract A4 should contain:**

- Title
- Authors & Affiliation
- Contact details author
- Session Choice: (glass manufacturing/glass processing)
  - ✓ How glass manufacturing / processing challenges are facing with current tightened policies of environment.

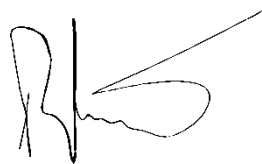


- ✓ Cut off CO<sub>2</sub> emission solutions in glass manufacturing.
- ✓ Using green energy/ renewable energy in glass manufacturing.
- ✓ Solutions for materials and energy savings in glass industry (for example, furnace design optimization, technologies to preheat raw materials, heat recovery systems, technologies to improve combustion...)
- ✓ Technologies on glass to applicable for renewable energy and green building construction (for example, photovoltaic, LED lighting, solar control glass...)
- ✓ Technologies to recycle post-consumer glass
- ✓ And other matters for manufacturing or processing glass.
- Abstracts should be objective & technical and should be based on data not previously published, updated to 2023. The text must be no longer than 400 words.
- Abstract should be submitted as MS Word file
- Allocated time: 30 minutes (20 minutes for presentation & 10 minutes for Q&A).
- Handout:
  - ✓ The 45<sup>th</sup> ASEAN Glass Conference Organizing Committee will print out only all abstract and provide it to the audience on that day.
  - ✓ If you want to distribute the copy of your full paper, please prepare and bring it by yourself.
  - ✓ Presentation equipment:
  - ✓ 45<sup>th</sup> ASEAN Glass Conference Organizing Committee prepares PC, projector, and projection screen for your presentation.
  - ✓ Your full paper of presentation material is prepared by 45<sup>th</sup> ASEAN Glass Conference Organizing Committee with PC.

**Note: The organizers reserve the right to select and arrange presentations in accordance with the content and agenda of the conference**



**Mr. Harris Hendraka**  
Chair man of AFGM



**Mr. Nguyen Tran Tuan Nghia**  
Chairman of Vieglass



**Mr. Nguyen Huy Thang**  
O.C Chairman of  
The 45<sup>th</sup> ASEAN Glass Conference

