

# Zero Carbon solar Glass





## Overview

---

Heat insulation solar glass (HISG) is a recently developed multi-functional photovoltaic (PV) glazing technology to mitigate energy consumption of buildings and to provide optimum thermal comfort conditio.

Could glass be the star of a net-zero carbon economy?

But glass is an existing material that could be the star of a net-zero carbon economy. Worldwide, glass manufacturing produces at least 86 million tonnes of carbon dioxide every year. But most of this can be eliminated when glass is recycled, and existing technologies could turn glass manufacturing into a mostly carbon-free process.

Can glass be cut half of the embodied carbon of a building?

Cutting half of the embodied carbon of glass, without compromising on performance or aesthetical attributes, is a major technical feat born out of great collaboration. “The new range presents a simple, more sustainable alternative that enables building designers to make immediate improvements on the carbon impact of their projects.

Is Pilkington Mirai a low carbon glass?

NSG Group has pioneered a new glass range with 50% less embodied carbon when compared to standard float glass\* – representing the lowest carbon product of its kind on the market. Pilkington Mirai™ can be offered as a low carbon alternative to regular float glass, with no difference in performance, quality, or aesthetic appearance.

Will glass be decarbonised?

Leopoldo Castiella, Head of Architectural Glass SBU at NSG Group said: “The gradual decarbonisation of glass will be pivotal as developers and asset owners mobilise towards meeting 2030 and 2050 carbon reduction targets.



## Zero Carbon solar Glass

---

LOW-CARBON MANUFACTURING OF ARCHITECTURAL ...

Jan 10, 2025 · MANUFACTURING OF ARCHITECTURAL & SOLAR GLASS This article introduces the project actually underway in Canada for the low carbon manufacture of ...

---

Glass With 50% Less Embodied Carbon ...

Oct 10, 2023 · The market leading glass can be combined with other high-performance low emissivity, solar control, and acoustic coatings in the ...

---

A smart building material for low/zero carbon ...

May 13, 2016 · Abstract and Figures Heat insulation solar glass (HISG) is a recently developed smart building material to minimize energy ...

---

Achieving Net Zero Carbon Emissions ...

May 2, 2025 · High-performance glass is key to Net Zero Carbon 2050! Learn how its thermal efficiency, solar control, and durability cut building ...

---

Glass With 50% Less Embodied Carbon Launches in New ...

Oct 10, 2023 · The market leading glass can be combined with other high-performance low emissivity, solar control, and acoustic coatings in the Pilkington product family\*\* - enabling ...

---

Toward multi-functional PV glazing technologies in low/zero carbon

Jul 1, 2016 · Toward multi-functional PV glazing technologies in low/zero carbon buildings: Heat insulation solar glass - Latest developments and future prospects

---

smart building material for low/zero carbon applications: ...

May 13, 2016 · A smart building material for low/zero carbon applications: heat insulation solar glass--characteristic results from laboratory and in situ tests

---

A smart building material for low/zero carbon applications: ...

May 13, 2016 · Abstract and Figures Heat insulation solar glass (HISG) is a recently developed smart building material to minimize energy consumption of building sector.

---

Low Carbon Glass

As the architecture and construction industries strive toward net-zero goals, sustainable materials play a critical role in helping to reduce environmental impact. Low carbon glass is at the ...

---

Achieving Net Zero Carbon Emissions through High Performance Glass

May 2, 2025 · High-performance glass is key to Net Zero Carbon 2050! Learn how its thermal efficiency, solar control, and durability cut building emissions and boost comfort.

---



Vacuum Insulating Glass: The Overlooked Key ...

May 7, 2025 · vacuum insulating glass is also one important part of zero-carbon buildings

Conclusion: VIG - The Smartest Upgrade for Zero ...

---

ORAÉ® , Saint-Gobain Glass

1 day ago · The selective solar control product families COOL-LITE® XTREME and COOL-LITE®

SKN are available on ORAÉ® substrate, the new low-carbon glass of Saint-Gobain Glass.

---

Vacuum Insulating Glass: The Overlooked Key to Zero-Carbon ...

May 7, 2025 · vacuum insulating glass is also one important part of zero-carbon buildings

Conclusion: VIG - The Smartest Upgrade for Zero-Carbon Living While solar panels and ...

---

A smart building material for low/zero carbon applications: ...

Mar 21, 2016 · A smart building material for low/zero carbon applications: heat insulation solar glass--characteristic results from laboratory and in situ tests Cuce, Erdem; Riffat, Saffa

---

ORAÉ® , Saint-Gobain Glass

1 day ago · The selective solar control product families COOL-LITE® XTREME and COOL-LITE®

SKN are available on ORAÉ® substrate, the ...

---

## Contact Us

---

For technical specifications, project proposals, or partnership inquiries, please visit:

<https://www.flightmasters.eu>

**Scan QR Code for More Information**



<https://www.flightmasters.eu>