

# Committed to net-zero carbon emissions by 2050

Help to drive change





# Leading sustainability in glass

Saint-Gobain Glass is leading the industry in the design and production of sustainable building glass.

**Better glass quality**  
with the production  
of optimised  
batches

**Limit CO<sub>2</sub> and sulphur oxide  
emissions released during the  
production process.**

Using one tonne of cullet in  
place of one tonne of raw  
materials can reduce CO<sub>2</sub> by

**300kg**

**Preserve natural resources  
and biodiversity.**

Using one tonne of cullet in  
a flat glass furnace can  
save up to 2 tonnes of primary  
raw materials, out of which  
kilograms  
is  
sand

**850**



**Increased competitiveness**  
by meeting the market  
demand for recycled  
products

**30%** less energy is required in the  
furnace when melting cullet  
than raw materials

**Less requirement for  
raw materials.** Due to the  
demand and scarcity of raw  
materials, the price of raw  
materials is likely to rise.

[www.saint-gobain-building-glass.com/en-gb/our-sustainability-journey](http://www.saint-gobain-building-glass.com/en-gb/our-sustainability-journey)

# Objective: to use 50% cullet in the manufacture of Saint-Gobain glass by 2025

## Cullet types

There are 3 types of cullet depending on its origin, as defined by the ISO 14021 standard:

### Internal cullet



Cullet that comes directly from glass production. This type of cullet does not leave the flat glass making facility, it is directly recycled on the production lines.

### Post-industrial cullet



Glass waste coming from glass sheet processing and from products that have not yet been delivered to the final customer. This type of cullet can be found on coating lines and glass processing sites.

### Post-consumer cullet



Cullet generated after the delivery of glass to the end user. In the construction industry, post-consumer cullet mainly comes from the renovation and the dismantling of buildings. In the auto industry, it comes from the replacement of windscreens and the dismantling of cars at the end of their useful life.



# Post-consumer flat glass recovery and recycling



A commitment to a circular economy for flat glass

**Saint-Gobain has for several years led the industry in the recovery and use of post-industrial glass cullet.**

Now Saint-Gobain has extended this programme to recover 'post-consumer' glass from old windows which has until now typically been discarded into land-fill.

The climate emergency means that we must challenge existing business models in order to achieve a sustainable future for everyone on our planet.

Saint-Gobain's cullet return scheme is a key initiative to achieve this target. We must work in partnership with our customers to ensure that when possible all post-industrial and post-consumer glass is recycled to manufacture high performance glass.

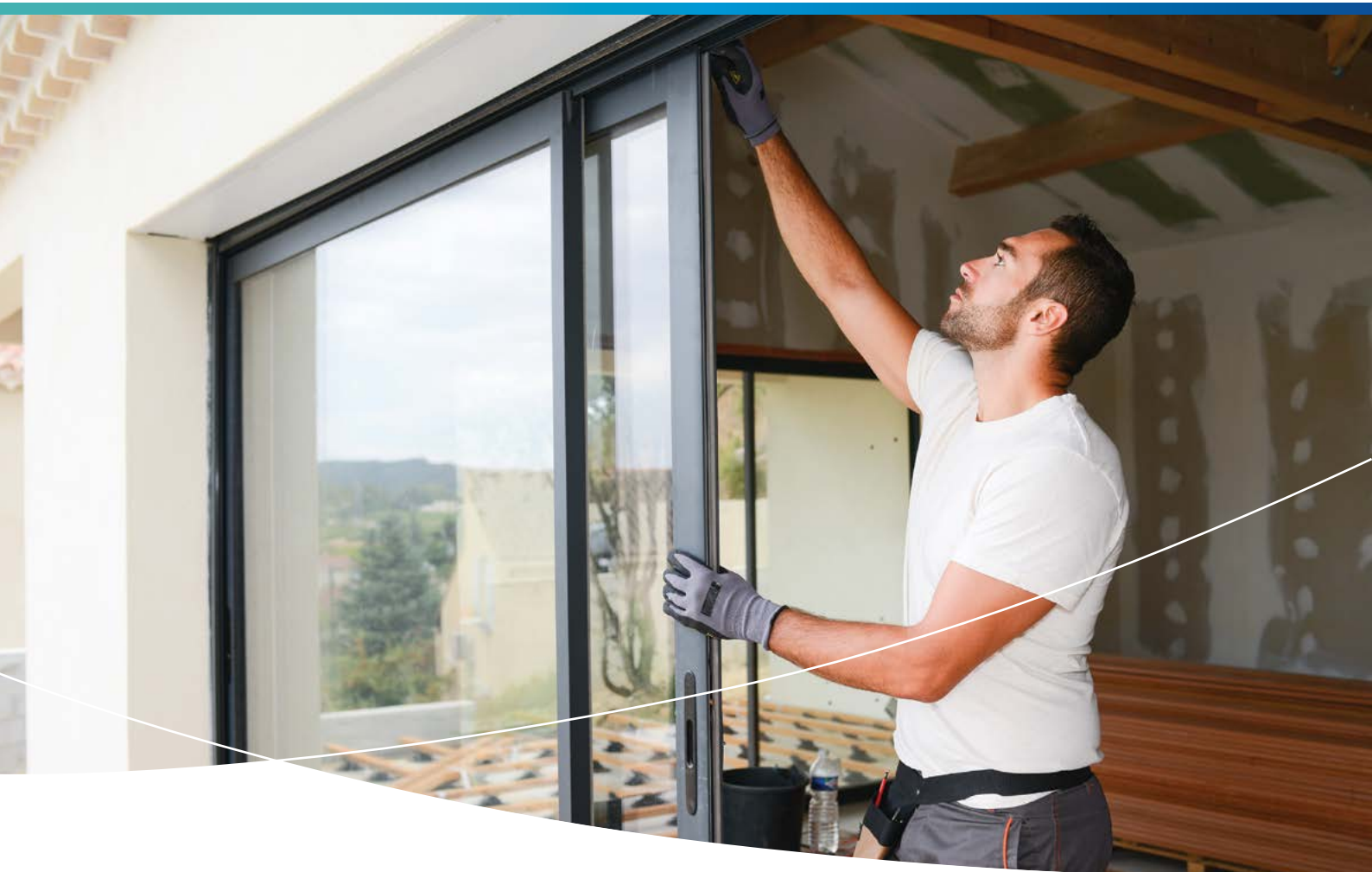
Saint-Gobain will manufacture all flat glass using

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50% cullet by 2025.

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Saint-Gobain takes its responsibility very seriously. On the 23rd September 2019, at the United Nations Summit on Climate Change, the Saint-Gobain Group Chairman and CEO, Pierre-Andre de Chalendar gave a commitment that the entire Saint-Gobain global group will move to become a **net-zero carbon emitter by 2050**



# Cullet Crushing Machine: Morley Glass & Glazing



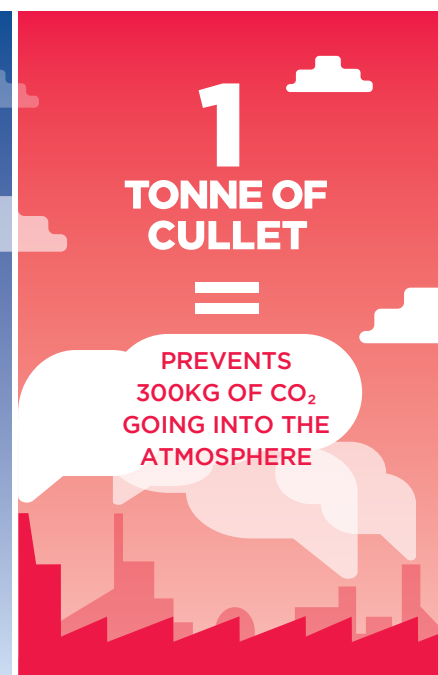
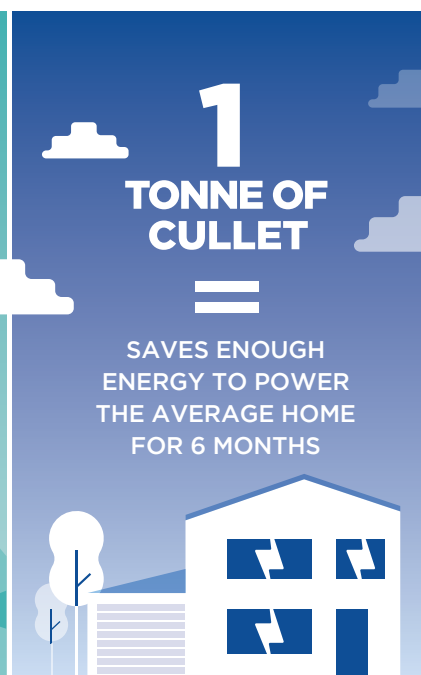
**Morley Glass & Glazing specialises in the manufacture of sealed units with integral blinds inside.**

It has offered its 50,000 sq ft manufacturing space in Leeds, West Yorkshire to serve as a collection centre for post-consumer glass recycling.

It has installed a cullet crushing machine and will recycle glass free of charge for all customers and tradespeople. The cullet will be returned to Saint-Gobain Glass to be re-used in the manufacture of new float glass.

If you would like to join our glass recycling scheme, or to find out more about it, see details on page 6.

## Benefits of the cullet return scheme



# Customer support packages

## Join our cullet return scheme

Saint-Gobain Glass has created three Glass Forever Cullet Return packages to help our customers setup and manage the collection and return of waste glass.



### Cullet collection bags



Saint-Gobain's cullet collection bags have been specially made to hold sharp pieces of glass. The bags can be securely held in a frame or hopper to ensure the safe collection of waste glass during processing. Off-cuts of glass and waste glass from recovered units can be added into the bags. The bags can then be returned to Saint-Gobain Glass in Eggborough on a Saint-Gobain in-loader when you've received delivery of glass from Saint-Gobain.

Remember to segregate your cullet to ensure quality and prevent any contaminants or other types of waste being added to the bags.

### Large volume cullet collection



For larger scale glass processors that produce a significant volume of waste glass, Saint-Gobain provides the option of a cullet collection, standing trailer.

Fill the trailer with your waste glass, ensuring that you segregate your cullet and prevent contamination. The standing trailer will be collected and replaced with a new trailer by Saint-Gobain as required, based on an agreed schedule.

### Cullet crushing machine



Saint-Gobain has developed a cullet crushing machine that can be used to separate glass from glazed units, to enable the recycling of post-consumer glass. Crush the glass on your site and Saint-Gobain will collect it to be recycled into new high performance glass.

A number of Saint-Gobain's customers and partners have installed a cullet crushing machine to ramp up the scale of their glass recycling operation. The cullet crushing machine is simple to install and use.

Please contact Saint-Gobain Glass if you'd like to find out more about the machine or if you'd like to find a cullet recycling partner near you.



Saint-Gobain Glass offers competitive rates for good quality, recycled cullet which could help to off-set the cost of your waste management, along with positively impacting the carbon footprint of your business.

Saint-Gobain Glass has introduced a certification scheme to reward our Glass Forever Partners.

Get in touch to find out more:

**[uk.marketing@saint-gobain.com](mailto:uk.marketing@saint-gobain.com)**





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