



NSG Group Information 2025

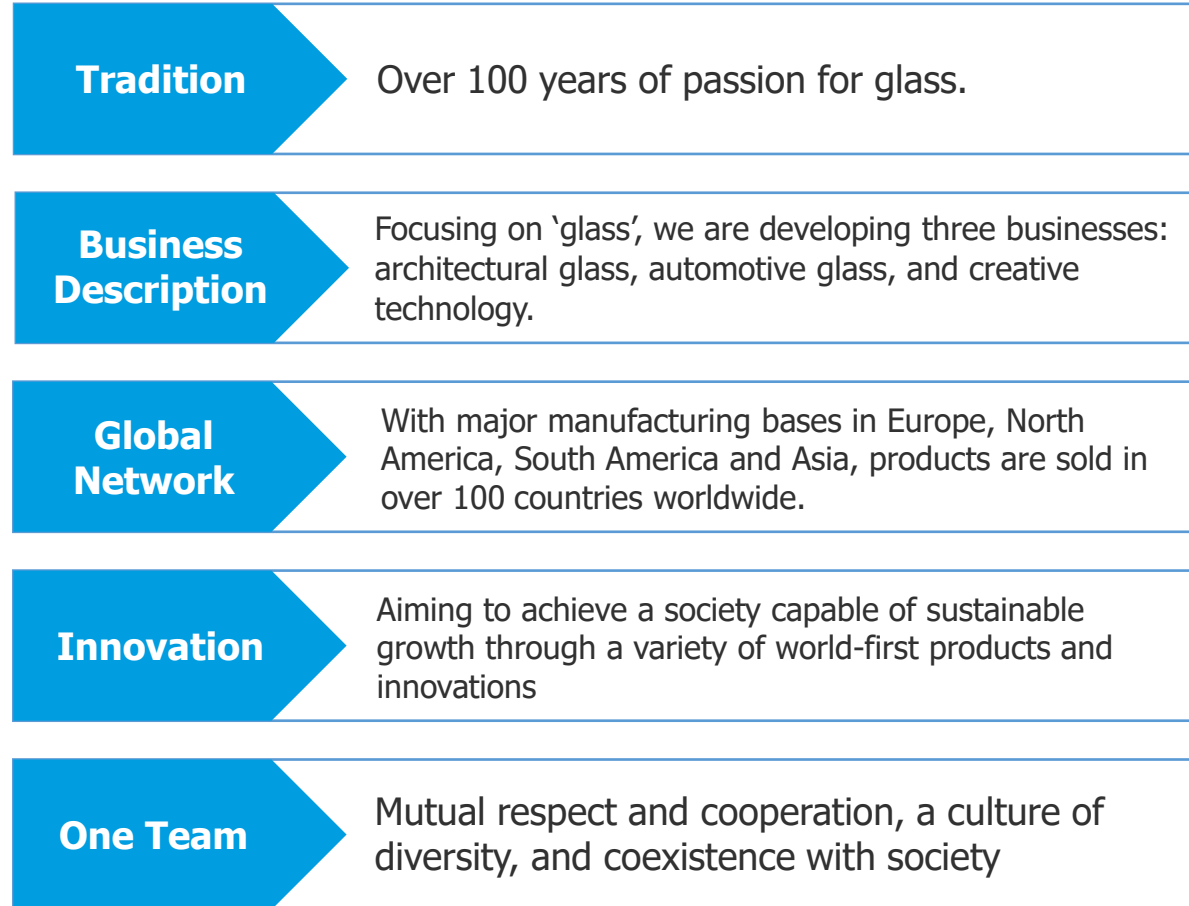
Nippon Sheet Glass Co., Ltd.

NSG Group Information

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What is NSG Group?

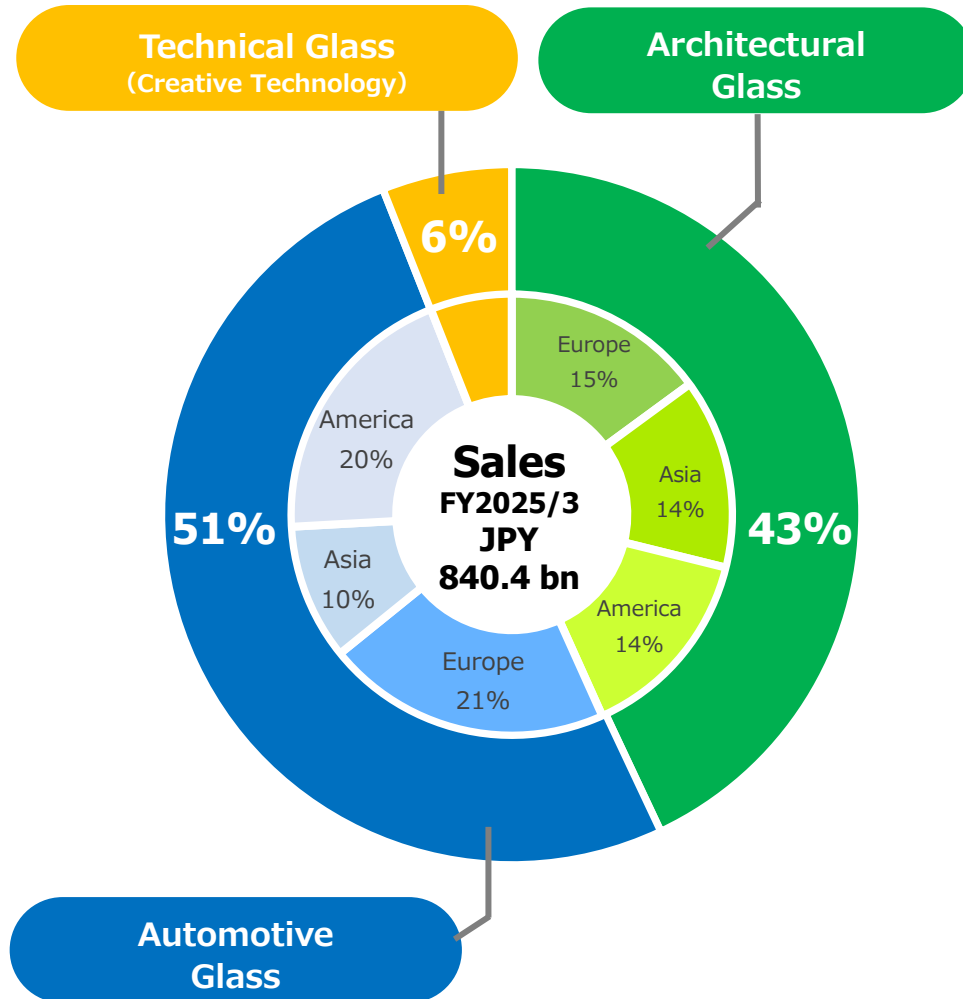
NSG Group is one of the world's largest glass manufacturers, with a strong passion for glass and a history of innovation, working with colleagues who share our aspirations.



Our Vision



Business Overview



Architectural Glass

Leading supplier for architectural glazing and thin film solar panels

Products

- Building glass & glazing
- Glass for solar panels
- High value-added glass for industry

Business Direction

Due to changes in people's lifestyles and society, we are creating a large number of high-value-added products that meet the needs of diversifying glass products.

In addition, we are working to achieve carbon neutrality by 2050, and we are also promoting the development of products for renewable energy and biological protection by utilizing our unique online coating technology, which is one of our strengths.



Courtesy of First Solar Inc.



Automotive Glass

Key supplier globally in new vehicle (OE) and automotive aftermarket (AGR)

Products

- Glazing for new vehicles
- Glazing for replacement markets

Business Direction

We provide safer, more comfortable, and environmentally friendly glass products with our unique technologies and flexible solutions that go beyond the conventional realm of automotive glass and address the "CASE" concept.

Having pioneered the development of a manufacturing method (APBL) suitable for the production of high-precision windshields required for ADAS and HUD, we have established a global production system. Looking ahead to the shift to EVs, we are also developing products that meet growing needs, such as IR (infrared) cut glass and variable tinted glass that conserves energy.



Technical Glass (Creative Technology)

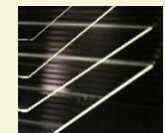
Create new value for markets through developing and supplying unique materials which support customers' enterprises

Products

- Optical products
- Glass fibers
- Glass flakes
- Ultra-thin glass

Business Direction

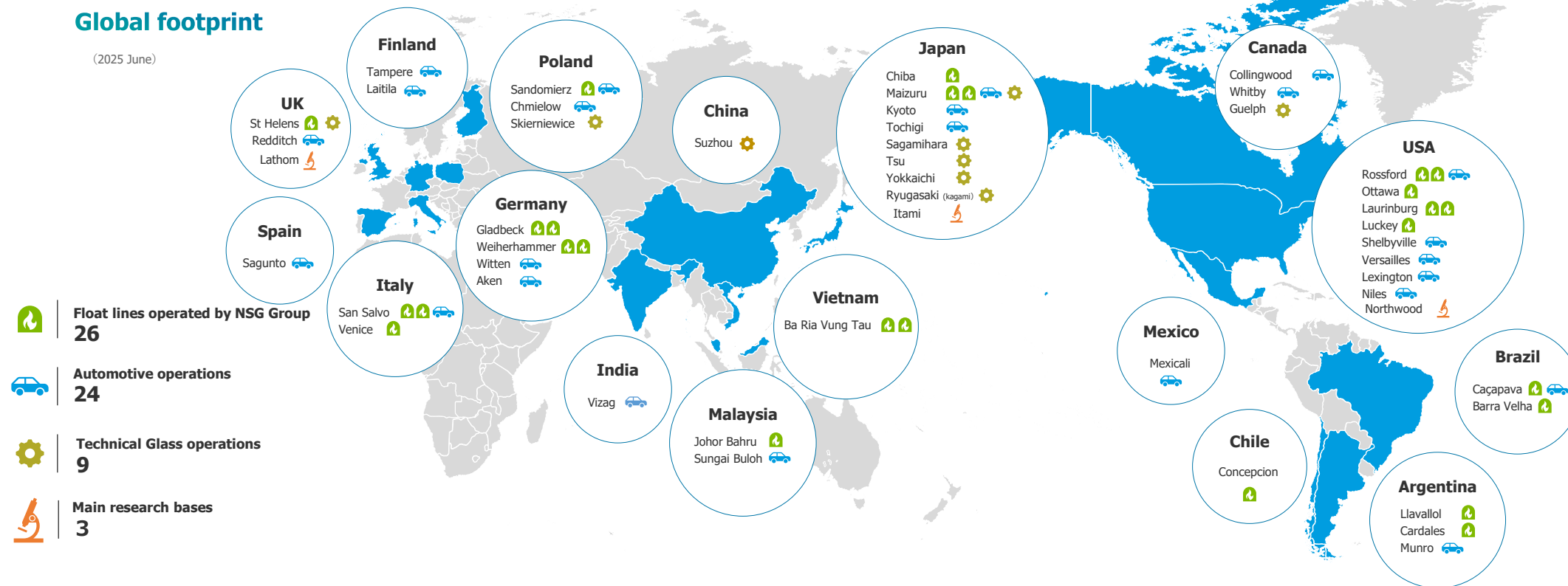
Continue to realize unique functions and values with innovative, bespoke, glass-related materials and coatings leveraging a wide range of compositions, shapes and processing technologies



Manufacturing and Research Bases

Global footprint

(2025 June)



NSG Group in numbers

Sales JPY840.4 bn (FY2025/3)	Operating Profit JPY16.5 bn (FY2025/3)	Net Asset JPY1,032.9 bn (FY2025/3)	Employees 25,400 (FY2025/3)	Float lines 26 (March 2025)	Foundation 1918	Sales in over 100 countries
Female managers ratio 16.8% → 18.0% (FY2024/3) (FY2025/3)	Research grants 1,526 PJ\$ (Cum above JPY 1.9bn : May 2025 Cumulative)	Online-coating glass share No.1 (10 float lines)	Lenses for multi function share No.1			

History

1826-1940s Foundation & Expansion



In 1826, the **St. Helens Crown Glass Company**, Pilkington's predecessor, was founded in England.

The world's first glass technology from the NSG Group

1950s -1960s Capacity Expansion and Start of Automotive Glass

1970s-1990s Overseas Expansion & Diversification

2000s Acquisition of Pilkington & Globalization

2010s- Shift to Value-added Business & Focus on Financial Stability

1918 America Japan Sheet Glass Co Ltd established in Osaka

1931 Company name changed to Nippon Sheet Glass Co., Ltd.

1936 Yokkaichi site opened

1950 Listing on stock exchanges in Japan

1951/1964 Maizuru / Chiba sites opened

1965 First float glass production in Asia at Maizuru site

1971 First overseas investment made in Malaysia

1978-79 UFF™ (Ultra Fine Flat)/ glass fiber business launched

1995 Overseas investment expanded including China and Vietnam

2004 Headquarters moved from Osaka to Tokyo

2006 Acquisition of Pilkington, becoming global leader in flat glass

2008 "Company with committees" governance adopted

2018 Announcement of "Our Vision"

2020 Float lines for solar energy glass established in the US and expanded in Vietnam

2024 Announcement of Medium-Term Plan, "2030 Vision: Shift the Phase"

2025 Completion and start production at a new solar energy glass facility converted from an existing float line in the US

1942 First patent on coated glass technology

1946 The first production plant for insulated glass was operating

1952 **Invention of float glass**

1970s Development of a wire-heated windshield for Rolls-Royce

1980s First online pyrolytic low-e coating
Coated heated windshield for GE EV1
Modular glazing with PU RIM

1997 First commercial vacuumed glass product, "Pilkington Spacia™"

1998 First oxy fired float line in the world in Rossford, OH

2001 First self-cleaning glass, "Pilkington Activ™"

2003 First high-performance solar control on-line coated clear glass

2005 Anti-reflective glass, "Pilkington OptiView™"

Medium-Term Plan 2030 Vision: Shift the Phase

Focusing on our strengths, glass and related technologies, we aim to expand profits in high-value areas that contribute to the sustainable development of society.

GOAL

To shift our company's phase and become vital in advancing a sustainable society

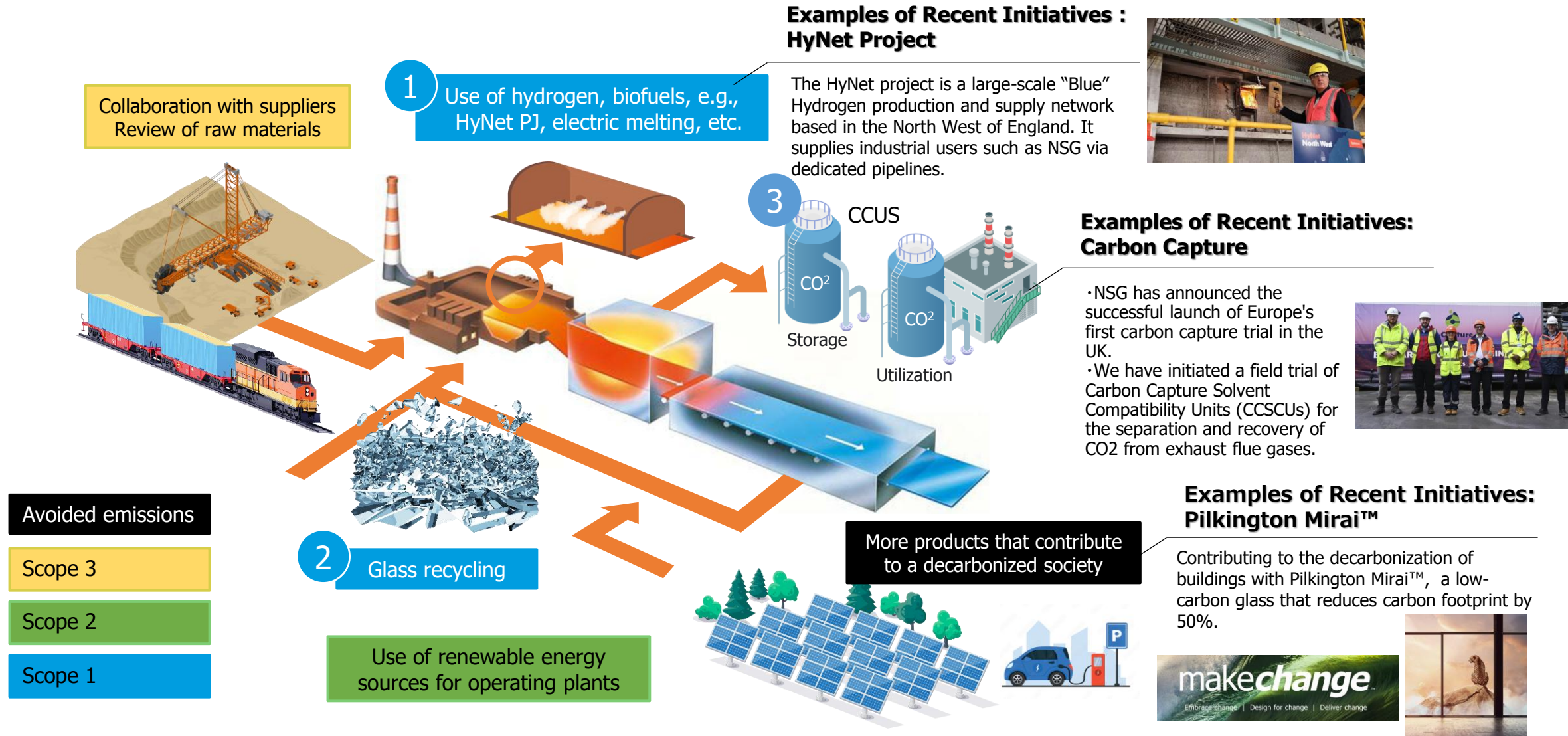
Commitment

- We are committed to creating value that realizes a sustainable society for, and with, all our stakeholders.
- We are committed to developing and providing glass and its related technologies and services that play a crucial role in our customers' solutions.
- We are committed to deeply understanding our customers' potential needs and delivering solutions that are suitable for them by leveraging both tangible and intangible assets.
- We are committed to continuing to invest in our people, taking pride in a global, diverse team passionate about glass and brimming with talent.



Decarbonization Initiatives

NSG Group aims to reduce CO₂ emissions by 30% by 2030 and achieve carbon neutrality by 2050.



Supply Chain Initiatives

NSG Group is working with its suppliers to achieve a sustainable society.

The Supplier Code of Conduct

The Supplier Code of Conduct sets out the minimum standards and behaviors we expect from our suppliers of goods & services in areas of ESG. We expect all new suppliers and existing contracted suppliers to have signed agreement to the Code.



Sustainable Supply Chain Charter

In September 2023, the Supply Chain Charter was launched to enhance and accelerate actions beyond the Code of Conduct to deliver the Group's sustainability objectives.

This Charter sets out the eight areas that we have identified as the most critical in terms of environmental and social impact.



External Evaluation

CDP Supplier Engagement Leader

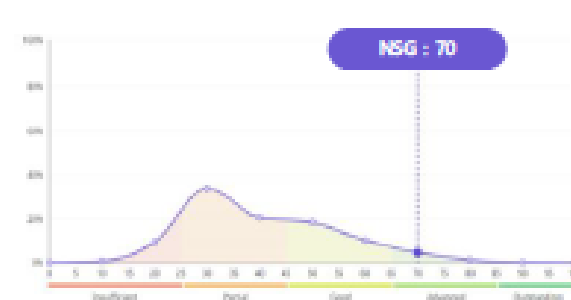
We have been recognized by CDP in their most recent evaluation for CY2024 as a Leader in Supplier Engagement.



Sustainable Procurement Pledge

NSG Group has also taken the step in FY2023/3 to join the League of Champions within the Sustainable Procurement Pledge (SPP) organization. This network of individuals and companies is driving the agenda on Sustainable Procurement and Supply Chains.

Sustainable Procurement Score Distribution



DEI Initiatives

NSG Group is committed to fostering an inclusive and diverse culture where everyone can be their best.

NSG Group DEI strategy

We will create and develop an organization where each and every one of us will shine brightly like glass.

Diversity

Recognize individual differences, respect each other, and create value

Equity

Providing suitable opportunities for each individual to demonstrate their strengths

Inclusion

Everyone feels safe to voice their opinions, discuss, and lead decisions

Statement of Intent

Having an Inclusive Culture and Environment:

We give everyone an equal opportunity to contribute to their full potential and harness the richness of ideas.

Having a Diverse Workforce:

Any differences in individuals' backgrounds, experiences, preferences and beliefs are recognized, respected and valued for their variety of perspectives.



In commemoration of International Women's Day, an Italian site was lit up in purple.



NSG Group and Pilkington UK win big on Diverse Talent, Decarbonization and product Development at the Glass Focus Awards 2024



Promoting diversity in the tech industry with the "Skills City Program"



Upskilling women in our workforce so they are empowered and encouraged to grow and develop for future roles within the business.

We will promote the four 'Fs'
Flat, Frank, Fast, and Fun communication
within the organization as part of our corporate culture.

Board of Directors (As of 26 June 2025)

NSG Group adopts a “Company with Three Committees” governance structure, and has in place, as statutory corporate organizations, Board of Directors and Nomination Audit and Compensation Committees, and an office of Executive Officer. Currently, the Chairperson of the Board as well as chairpersons of all three Committee are all appointed from among the Independent External Directors.

Independent External Director
Chairperson of the Board
Chairperson of
Nomination Committee

Hiroshi Ishihara



Independent External Director
Chairperson of Audit Committee

Kunihito Minakawa



Independent External Director
Chairperson of Compensation
Committee

Shinji Asatsuma



Independent External Director

Tetsuya Fujioka



Independent External Director

Takehiro Kamigama



Independent External Director

Hideki Miyazaki



Director
Representative Executive Officer
President and CEO

Munehiro Hosonuma



Director
Senior Executive Officer
Chief Human Resources Officer
(CHRO)

Denise Haylor



Executive Officers (As of 26 June 2025)

Director,
Representative Executive
Officer
President and CEO

Munehiro Hosonuma

Representative
Executive Officer



Executive Officer,
Chairperson of the
Company

Shigeki Mori

Chairperson of the
Company



Management team with diverse members from various
backgrounds, including international, gender, and age, etc.

Director
Chief Human
Resources Officer

Denise Haylor

Senior Executive
Officer



Chief Financial
Officer

Hiroshi Aiura

Senior Executive
Officer



Head of Architectural Glass

**Leopoldo Garces
Castiella**

Senior Executive
Officer



Head of Creative
Technology

Hisashi Okamoto

Senior Executive
Officer



Head of Automotive

Rob Purcell

Senior Executive
Officer



Chief Risk Officer (CRO)
and Assistant CFO

Masaki Kambayashi

Executive
Officer



Chief Legal Officer,
Chief Ethics &
Compliance Officer

Michael Kiefer

Executive
Officer



Sustainability Director

Shiro Kobayashi

Executive
Officer



Chief Strategy Officer

Yohei Nakatsuji

Executive
Officer



Finance Director

Iain Smith

Executive
Officer



Chief Technology Officer

Kevin Sanderson

Executive
Officer



Social Action Programs

As a responsible and important member of the local communities in which we operate, NSG Group believes it is important to make a positive contribution to the development of our local communities.

NSG Foundation

NSG Foundation(Nippon Sheet Glass Foundation for Materials Science and Engineering) aim to contributing to the promotion of R&D activities on inorganic materials through research grants, which amounts above JPY1,900 million for 1,526 projects cumulatively (As of June 2025)



(公財) 日本硝子材料工学助成金 研究助成金贈呈式

Community Support Activities in Brazil

The Group company in Brazil is supporting the social project “Banho Solidário Sampa”, which provides homeless people in São Paulo, Brazil with warm baths, clean clothes and other daily necessities.



Contributing to Society through the Sumitomo Group

As a member of the Sumitomo Group, we support projects in the fields of basic science, the environment, art and culture, and international exchange through the Sumitomo Foundation, and we also support events such as the "A Brief Message from the Heart" Letter Contest and the "Speech Contest of the Schools for the Blind" through the Sumitomo Group Public Affairs Committee, which are linked to the spirit of "People to People".



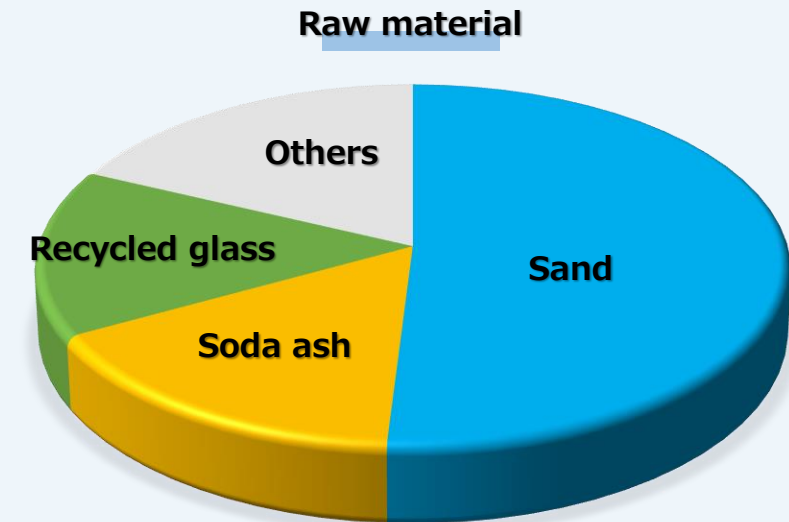
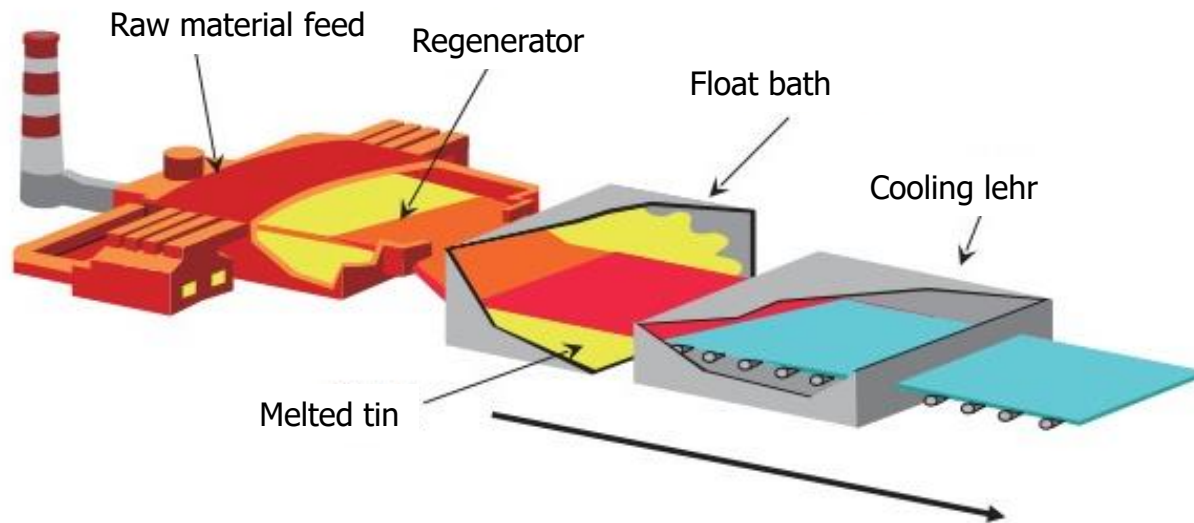
Bee Project Charity Activities in UK

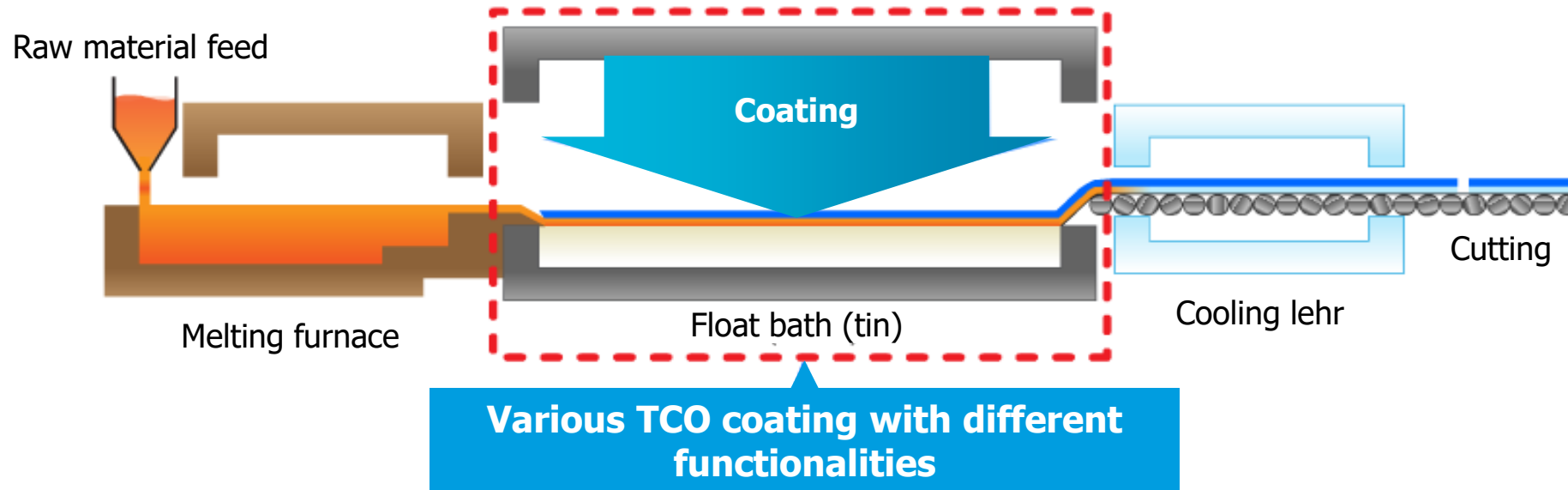
Honeybees are kept at the Lathom and NGFE sites in the UK, and the honey is sold locally, with the profits donated to local charities every year. This activity also helps to protect the environment and increase biodiversity around the sites, which are rich in nature and popular with the bees.



What is “Float glass” ?

Molten glass is poured continuously from a furnace onto a shallow bath of molten tin. It floats on the tin, spreads out and forms a level surface. This method was introduced to the world as the float process in 1959.





Characteristics of Online Coatings

- Thin, uniform metallic oxide film deposited over glass while being formed inside the float bath
- Cost competitive, available in large size
- Durable: suitable for further processing & for use as an external glass pane
- Versatile: architectural, solar & automotive applications, technical applications include thin or curved displays, OLED lighting and thin-film sensors



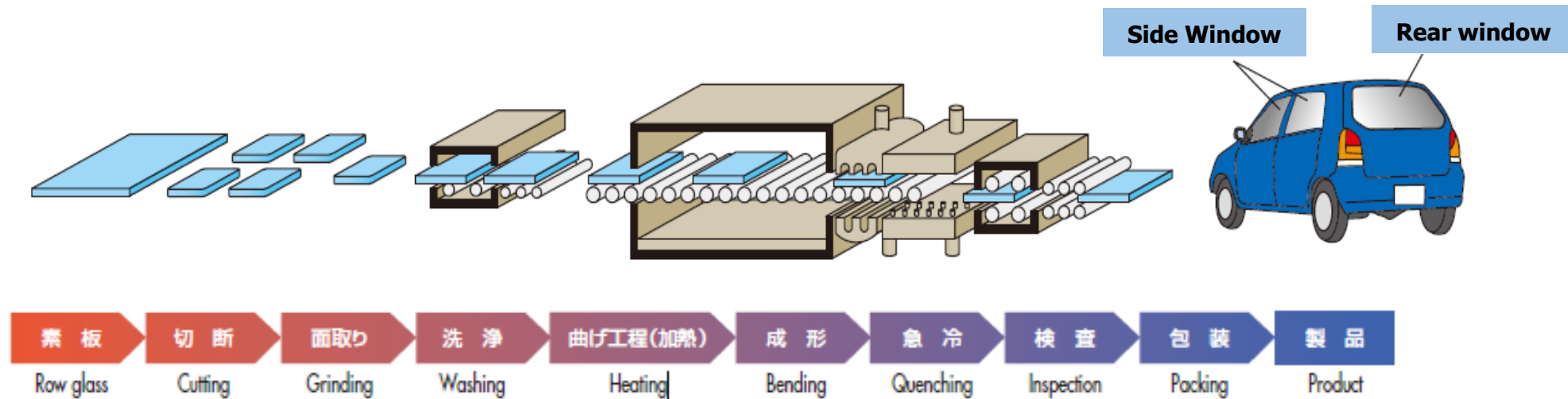
What is “Toughening glass”?

Flat glass is placed in a tempering oven, and heated to between 650 and 700°C, which is near the glass softening temperature.

Then the glass is quenched by blowing air evenly on both sides, causing the surface to harden first, with the inside cooling and shrinking later. The result is the formation of a stable compressive stress layer at the surface, and the glass is 3 to 5 times more resistant to impact than ordinary glass.

This glass is mainly used for the side and rear windows of automobiles.

Main uses for toughening glass



What is “Laminated Glass” ?

Laminated glass consists of two pieces of glass with a sandwich of transparent plastic interlayer.

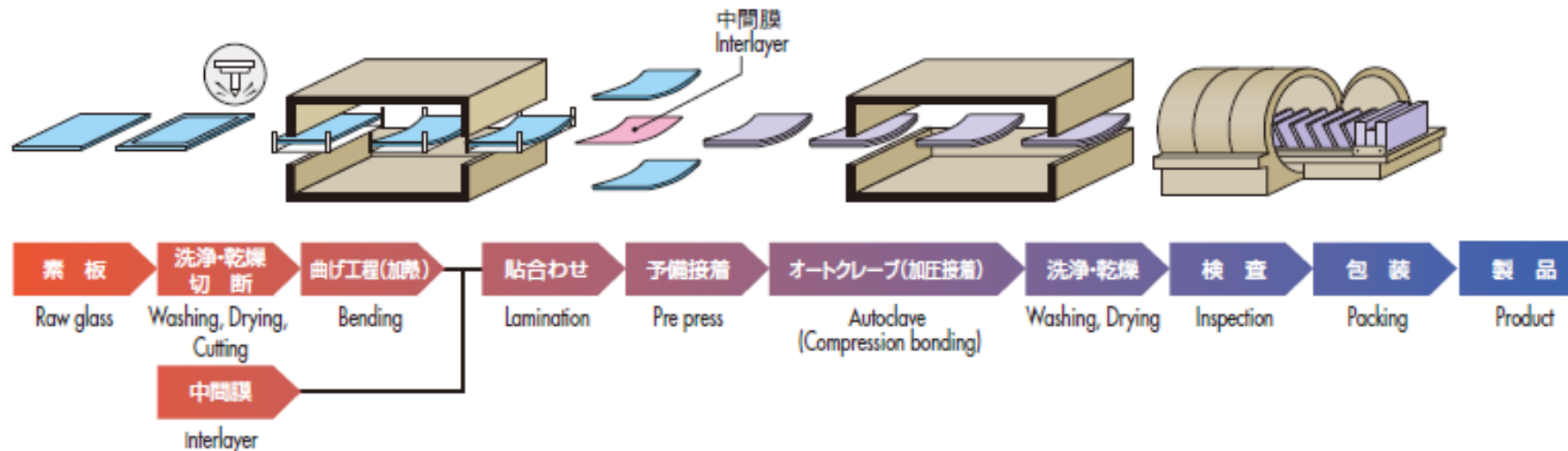
This is then placed into an air-pressure autoclave and treated at high temperature and pressure.

Some special products are made with 3 or more sheets of glass.

This glass is mainly used for the front windows of automobiles.

Main uses for laminated glass

Windshield





\\ NSG Badger //

