

NEWS RELEASE

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Nippon Sheet Glass Co., Ltd.

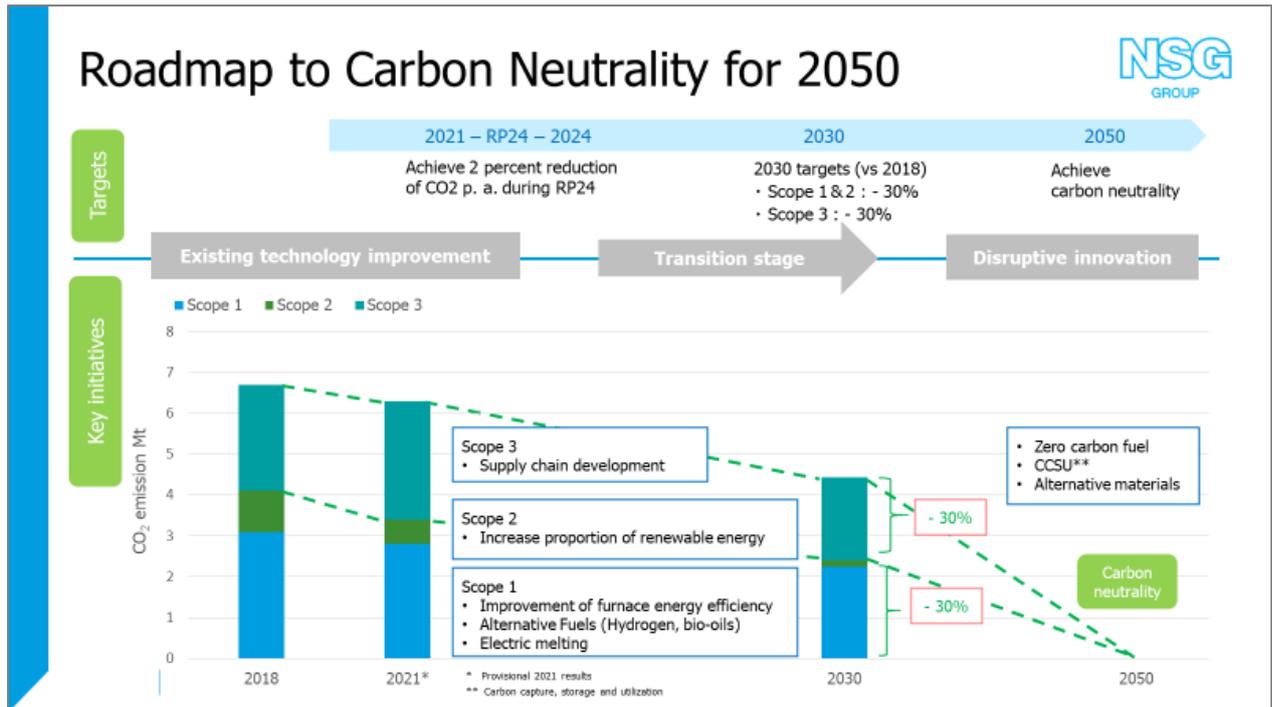
NSG Group to Increase Carbon Reduction Target by 2030 Committing to Achieve Carbon Neutrality by 2050

NSG Group is proud to announce that we have set the increased target of carbon emission reduction by 2030 and have committed to achieving Carbon Neutrality by 2050.

Currently, more than 140 countries have set carbon-neutral targets by 2050, and the initiatives against the climate change have become the worldwide common issue. For NSG Group, as a glass manufacturer, it is of course one of the most important issues to be addressed. In October 2019, The Group has already set a target of reducing GHG emissions (Scope 1 and Scope 2) by 21% compared to its 2018 levels by 2030 as a "Science Based Targets" certified by SBT Initiative (SBTi *), and we have been taking initiatives in line with the targets. At the same time, The Group has been working to achieve a 2% annual reduction in carbon emissions (Scope 1 and 2) during the three-year period of the Company's Revival Plan 24 to 2024.

NSG Group now recognizes the achievement of carbon neutrality by 2050 as the inevitable goal that should be committed as a member of society. At the same time, we have decided to raise the carbon reduction target by 2030, which is more important for achieving carbon neutrality, from 21% to 30%, and to set more concrete and feasible additional measures.

	Scope 1+2 (Direct+Indirect Emission)	Scope 3 (Supply Chain Emission)	Carbon Neutrality
New Targets	30% reduction Target year: 2030 Benchmark: 2018 (To be certified by SBTi)	30% reduction Target year: 2030 Benchmark: 2018 (To be certified by SBTi)	Commit to achieve Target year: 2050
Current Targets	21% reduction Target year: 2030 Benchmark: 2018 (Certified by SBTi)	(Internal target only)	Specific steps to CN should be laid out soon.



The following measures will mainly be implemented to achieve the new target by 2030 and carbon neutrality by 2050.

1) Initiatives for 2030 New Target

Scope 1 (Direct Emission)	Improvement of Furnace Energy Efficiency	<ul style="list-style-type: none"> ● Design changes to ensure optimum efficiency technology is installed at furnace repairs ● Digitalization of furnace operation utilizing techniques such as advanced data analytics & A.I. to maximize efficiency ● Increase cullet (re-used glass) consumption
	Alternative Fuels	Increase the proportion of non-fossil fuels, such as Hydrogen, Bio Fuels
	Electric Melting	Proceed with small-scale introduction until 2030, expanding the introduction scale toward 2050
Scope 2 (Indirect Emission)	Expanded Usage of Renewable Electricity	<ul style="list-style-type: none"> ● Increase the proportion to ultimately achieve 100% replacement of renewable electricity resulting in zero scope 2 emissions associated with purchase of electricity ● Includes the use of various contracting mechanisms such as PPA and expansion of on-site generation
Scope 3 (Supply Chain Emission)	Supply Chain Development	Collaborate across the NSG value chain to reduce scope 3 emissions

2) Initiatives for 2050 Carbon Neutrality

In addition to the measures above, NSG Group will promote the development of new technologies through disruptive innovations, such as 100% zero-carbon fuels such as hydrogen, CCSU (carbon capture, storage, and utilization), and the use of alternative glass raw materials.

*1 SBT Initiative (SBTi)

Current certified target by SBTi is to reduce absolute GHG emissions (Scope 1 and Scope 2) by 21% by 2030 compared to the 2018 level. NSG Group is now applying to SBTi for the updated reduction target of 30%.

About the NSG Group (Nippon Sheet Glass Co., Ltd. and its group companies)

The NSG Group is the world's leading supplier of glass and glazing systems in the business areas of Architectural, Automotive and Creative Technology.

Architectural manufactures and supplies architectural glass as well as glass for the solar energy and other sectors.

Automotive serves the original equipment (OE) and aftermarket replacement (AGR) glazing markets.

Creative Technology comprises several discrete businesses, including lenses and light guides for printers and scanners, and specialty glass fiber products such as glass cord for timing belts and glass flake. <https://www.nsg.com>

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