

NEWS RELEASE

NSG to Test the World's First Use of Hydrogen Fuel for Glass-Making

Tokyo (February 27, 2020) - NSG Group announced today that it will test the use of hydrogen as an alternative fuel for the float furnace to manufacture glass at its Greengate Works in St. Helens, U.K. A global first, the initiative is part of a project managed by HyNet, a consortium of industries in the North West of England, aimed at reducing carbon emissions from industry, homes and transport.

NSG Group will investigate whether hydrogen can be used to wholly or partly replace the natural gas and oil that are the standard fuels for the glass making industries. If all of the natural gas can be replaced with hydrogen this would reduce emissions of CO₂ by around 80%.

The work is supported by £5.2m of funding from the UK government under the Industrial Fuel Switching Scheme with first trials planned for November 2020.

By 2030, NSG targets to reduce absolute carbon emissions (Scope 1 and Scope 2*¹) by 21% compared to the 2018 level.*² Over the past three years, NSG has reduced CO₂ emissions per production unit by 5% with the ongoing measures to reduce energy usage and CO₂ emissions.

By reducing CO₂ emissions from business operations and supplying innovative glass products, NSG will continue its contributions to mitigating climate change risks.

*¹ Scope 1: Direct emissions by business operators (Use of fuel in manufacturing processes, etc.)

Scope 2: Indirect emissions by consumption of energy sources (Purchased electricity used in manufacturing processes, etc.)

*² Refer to "[SBT Initiative Approves NSG's Target for Greenhouse Gas Reduction](#)"

The HyNet project is part of the wider North West Energy & Hydrogen Cluster www.northwestcluster.co.uk which could deliver 33,000 jobs, over GBP 4 billion investment, and save 10 million tonnes of CO₂ per year

NSG Group is one of the world's largest manufacturers of glass and glazing products for the architectural, automotive industry and technical glass sectors. With around 27,000 employees, NSG Group has principal operations worldwide and sales in over 100 countries. <http://www.nsg.com>