News Release

AGC's Photovoltaic Glass Adopted by Singapore Institute of Technology

Tokyo**, September 9, 2021**—AGC Inc. (AGC Inc.; Headquarters: Tokyo; President: Yoshinori Hirai), a world-leading manufacturer of glass, chemicals, and high-tech materials, has announced that its photovoltaic glass has been adopted at the Singapore Institute of Technology's new Punggol campus, scheduled to open in 2024.

The new Punggol campus of the Singapore Institute of Technology is scheduled to be the first in Southeast Asia to install an urban multi-energy microgrid*[1] that will decentralize energy sources and enable the effective use of local renewable energy sources, with the aim of obtaining the Super Low Energy (SLE) certification (awarded to buildings that reduce the energy requirements by at least 40% through energy conservation and creation) established by Singapore's Building and Construction Authority. AGC's photovoltaic glass, to be installed in the skylight of the food court on the campus, will be used as one of the energy sources*[2], contributing to the reduction of the campus' reliance on electricity derived from main grid. It will also enable natural lighting, which is an inherent feature of glass, to create a bright and inviting interior space.

In addition to the features of AGC's photovoltaic glass, AGC Asia Pacific Pte. Ltd. (Headquarters: Singapore), the contact point for this project, was highly evaluated for its one-stop service from basic design to material supply and construction, which led to the selection of AGC's photovoltaic glass.

An overview of the Singapore Institute of Technology's new Punggol campus

Conceptual diagram of the food court interior

Under its ***AGC plus 2.0*** management policy, the AGC Group is creating products that add various pluses for society including safety, security, and comfort and for customers including new value and functionality. The AGC Group will continue to strive to provide new possibilities for glass that can contribute to the realization of a carbon-neutral society.

<Media inquiries>
Kazumi Tamaki, General Manager, Corporate Communications & Investor Relations Division
AGC Inc.
(Contact: Tomoko Nakao; Tel: +81-3-3218-5603; E-mail: info-pr@agc.com)
*Personal information is handled in accordance with our Privacy Policy.

■ Notes

*1 Multi-energy microgrid

A system to stably supply electricity by installing small-scale power generation facilities near consumers and using decentralized power sources such as solar, storage batteries, EVs, etc., instead of purely relying on power supplied from the main grid.

*2 The area of AGC's photovoltaic glass used in the campus is about 400m^2, equivalent to 57.7Kwp rated output. Rated output is a value that indicates how much power a solar installation can generate under predetermined conditions (standard conditions).

■ Reference

Website of Singapore Institute of Technology

https://www.singaporetech.edu.sg/

About AGC's photovoltaic glass

AGC's photovoltaic glass is a type of BIPV (building-integrated photovoltaic) module, made from laminated glass, which can generate power while letting in sunlight. By encapsulating photovoltaic cells between two sheets of glass, energy can be created in canopies, skylights, and facade glass. It creates a sense of openness and offers solar control performance by taking advantage of the features of glass and allows for a high degree of design flexibility as the cells can be arranged freely. In recent years, there has been a growing demand for eco-friendliness in various buildings. Against this backdrop, AGC's photovoltaic glass, which contributes to the realization of zero-emission buildings (ZEBs) and a carbon-neutral society, will provide new possibilities for glass.

Product website: https://agc-asiapacific.com/product/sunewat-building-integrated-photovoltaic/

* In Japan, photovoltaic glass is sold under the SUNJOULE® brand since its launch in 2000. The AGC Group has been promoting the use of photovoltaic glass, which enables the use of renewable energy, for more than 20 years. In Japan, the product has been installed in over 250 sites.

Product website of SUNJOULE® : https://www.agc-gk.com/bldg/products/sunjoule/

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