

## SunEwat, Building Integrated Photovoltaic (BIPV) Glass, Adopted for "The Greenhouse" at Dulwich College (Singapore)

**Tokyo, November 28, 2023** - AGC (Headquarters: Tokyo; President: Yoshinori Hirai), a world-leading manufacturer of glass, chemicals, and high-tech materials, has announced that SunEwat (sold in Japan as Sunjoule®), a Building Integrated Photovoltaic (BIPV) glass, has been adopted for "The Greenhouse," Singapore's first net-zero international school building that opened on November 23, 2023 at Dulwich College (the College) in Singapore, with its parent organization in London.



"The Greenhouse" multipurpose educational complex at Dulwich College (Singapore)

This seven-story state-of-the-art-structure designed by award-winning architectural firm, DP Architects and its specialist arm in sustainable design, DP Sustainable Design (DPSD), successfully pushed the campus' space boundaries through the adoption of extensive on-site renewable energy installations, and SunEwat's BIPV is one of its vertical energy-harvesting facades solutions.

The use of renewable energy on campus has earned the College a PZE (Platinum Zero Energy – the highest sustainable construction certification) under the Building and Construction Authority of Singapore's Green Mark program\*<sup>1</sup>.

SunEwat has been installed on the complex's skylights and facades and generates the equivalent of about 40% of its total energy consumption\*<sup>2</sup>. In addition, the skylights have been designed with different light transmittances for each section to create a bright and comfortable interior with optimum natural lighting entering the space, which is one of the pivotal benefits of AGC's SunEwat while providing functionality and design at the same time.

In addition to the features of SunEwat, the technical support provided by AGC's 100% subsidiary, AGC Asia Pacific Pte Ltd (Headquarters: Singapore), such as power generation optimization simulations, was also highly evaluated and led to its adoption.

The AGC Group has set "Promotion of sustainability management" as one of the key strategies in its medium-term management plan, [AGC plus-2023](#), and is aiming to solve social issues through materials innovation. AGC will continue to contribute to the realization of global and social sustainability through its original materials and solutions.

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<Media inquiries>

Chikako Ogawa, General Manager, Corporate Communications & Investor Relations Division,  
AGC Inc.

(Contact: Arikj; Tel: +81-3-3218-5603; [Contact form](#))

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**< Notes >**

\*1 BCA Green Mark certification scheme: <https://www1.bca.gov.sg/buildsg/sustainability/green-mark-certification-scheme>

\*2 Approximately 1,350m<sup>2</sup> of AGC photovoltaic glass has been adopted on the campus, equivalent to a rated output of 207.7kWp. Rated output is a value that indicates how much energy solar equipment can generate under set conditions (standard condition).

**< Reference >****■ About Dulwich College**

Website: <https://singapore.dulwich.org/>

**■ About SunEwat**

It is a highly customizable photovoltaic glass with building material and power generation functions that offers three main values.

**1) Efficient power generation:** Utilizing building exteriors

While serving as architectural glass, SunEwat can generate renewable energy. Parts of buildings made of glass such as facades, windows, eaves, and balconies, which have not previously been utilized for power generation, will have the ability to generate electricity using sunlight. Since the glass is integrated with the buildings, there is no need to secure new land for power generation.

**2) No compromise on design:** Fully customizable

Solar power can be generated without compromising the aesthetics of the building.

Architects and designers can arrange and deploy glass sizes and photovoltaic cells as they wish to create their own original designs.

**3) Visible Environmental Initiatives:** Energy creation through exteriors

By placing SunEwat on a building's exterior, that is visible to many people, stakeholders, including owners and tenants, can clearly show they are taking actual steps to achieve carbon neutrality and realize a sustainable future.

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