

SunEwat

Building Integrated Photovoltaics

Features

- ◆ SunEwat Building Integrated Photovoltaics (BIPV) is AGC's smart glass solution shaping the future of facades.
- ◆ The range focuses on efficiency and delivers solutions that are aesthetically pleasing.
- ◆ Applications include facade, canopies, skylights, spandrels, louvres and cladding components.
- ◆ SunEwat BIPV is designed with sustainability in mind, and promotes renewable energy generation, reduces the building's carbon footprint and contributes to a greener environment.
- ◆ It has a wide range of customization options and design flexibility. Architects and designers can tailor the solar-integrated glass solutions to suit specific building aesthetics, ensuring that energy efficiency and visual appeal go hand in hand.

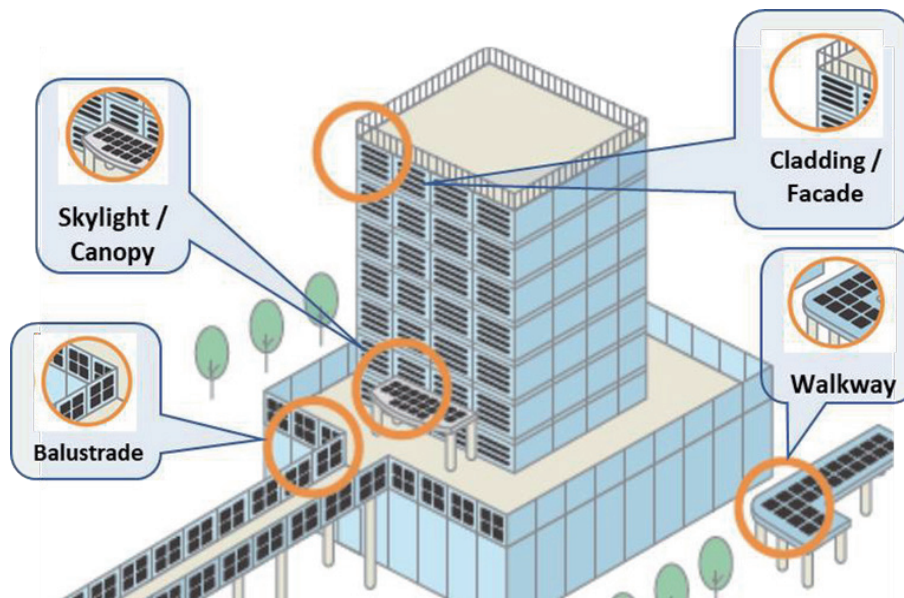


SunEwat Vision



SunEwat Design

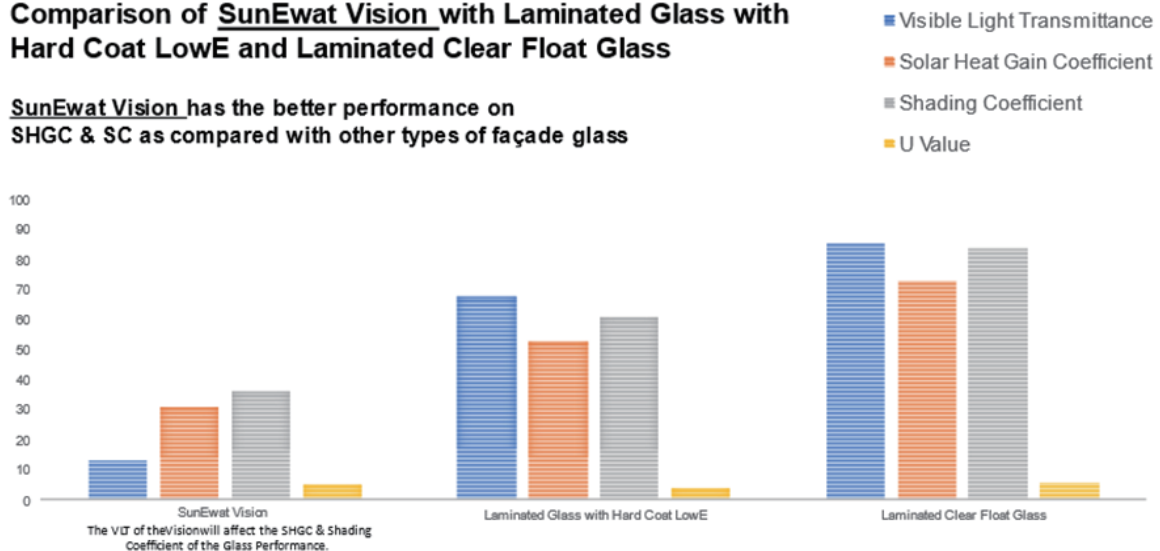
Basic Concept



- ◆ **Enhanced Energy Efficiency:** Semi-transparent BIPV allows controlled daylight to enter the building while reducing solar heat gain. By using solar cells as shading components, it helps to mitigate the amount of heat transmitted into the building, leading to improved energy efficiency in cooling and air-conditioning systems.
- ◆ **Reducing CO₂ Emissions:** By generating clean electricity from solar energy, BIPV helps reduce the reliance on conventional energy sources, such as fossil fuels. As a result, it contributes to lowering carbon dioxide (CO₂) emissions associated with electricity generation. Quantifying the annual or lifetime CO₂ emissions reduction due to BIPV can illustrate its positive environmental impact.
- ◆ **Sustainable Brand Image:** Incorporating BIPV into a building showcases a commitment to sustainability and environmental responsibility. It enhances the building's reputation and attracts environmentally conscious clients, tenants, and investors.

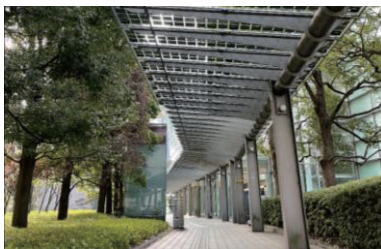
Comparison of SunEwat Vision with Laminated Glass with Hard Coat LowE and Laminated Clear Float Glass

SunEwat Vision has the better performance on SHGC & SC as compared with other types of façade glass



Project References

Domestic



Twins Shinagawa Passageway
Japan
Completed 2022

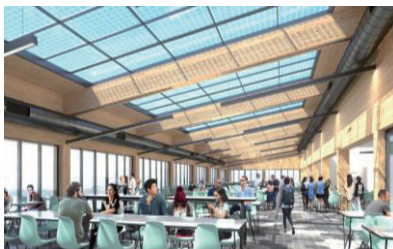


New Nagaokakyo City
Government
Completed 2022

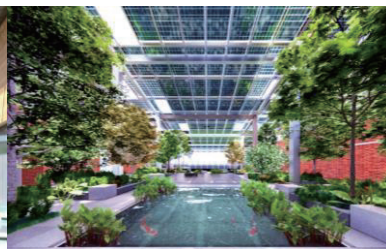


Okuno Pharmaceutical Industry
Factory
Completed 2022

Overseas



Singapore Institute of Technology
Ongoing Project



Dulwich College Singapore
Completed 2023



Universiti Kuala Lumpur Malaysia
Ongoing Project

Contact: **AGC Asia Pacific Pte Ltd**
460 Alexandra Road 32-01 mTower Singapore 119963
Person in charge: Mr. David Ang
E-mail: david.ang@agc.com