

Issue #4
The Glass to a Better Sun

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*Do you know that the Sun can shine consistently throughout the day?
Do you know that it can help you make energy?*



Read on to find out two products that can give you a better Sun and a step towards Net Zero Energy Building.

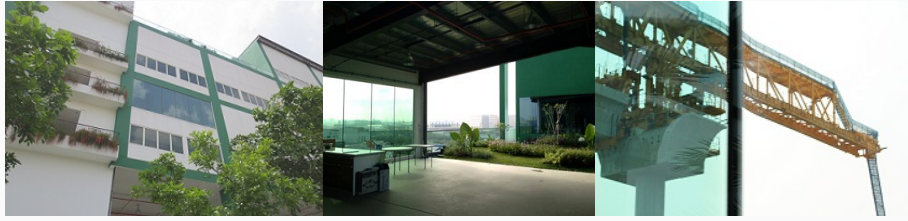
[What is Net Zero Energy Building?](#)



VariShield
Thermochromic Glass

Thermochromic Glass is a variation of smart glass technologies under passive glazing. What it does is to tint darker during the sunnier times, reducing glare, light and heat just as you need it!

- At maximum tint, [VariShield](#) admits **half** the heat admitted by Low Emissivity Glass!



Main Benefits

1. **Intuitive** - Completely weather-activated without bothersome mechanical or electrical operable systems
2. **Natural Daylighting with Glare Control** - Saves lighting costs
3. **Heat Control** - Moderates internal temperature thus **saves on cooling costs**
4. **Easy Application** - Installation as per normal glass



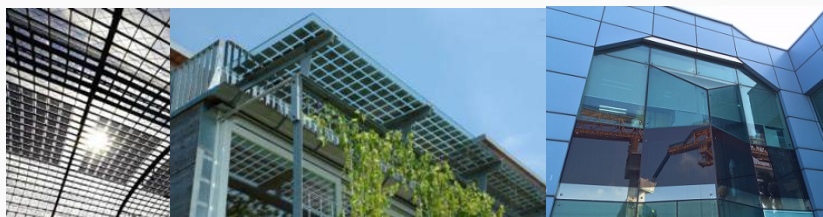
Building-Integrated Photovoltaics

Solar Cells Embedded in Glass

Building Integrated Photovoltaic Glass (BIPV Glass) is the embedding of solar cells in glass panes and integration of such panels onto buildings for electricity generation.

It is available in:

- Mono-facial or bifacial configurations
- Frameless or with an aluminium frame
- Laminated or laminated double-glazed
- Horizontally or vertically applications



Main Benefits

1. **Energy Conservation** - Taps on **renewable energy**
2. **Cost Savings** - Actively **harvests energy** + Passively reduces heat gain
3. **Easy Application** - **Directly integrated** as a structure of the building

VariShield passively reduce heat gain and air-conditioning costs, while Building Integrated Photovoltaic Glass actively harvests energy. Using the two-prong approach, we can see the birth of a green building, when

we appreciate and adopt eco glass!



Laminated Glass with Exposed Edge

If you do not like the idea of peeling safety films, you will definitely cringe at the sight of glass delamination!

Why Do Glass Delaminate?

Delamination occurs when moisture in the environment attacks the interlayer of the unframed laminated glass, causing the interlayer to peel away from the glass. There is simply no quick-fix once the glass delaminates, but there are a few precautionary measures:

1. Consider the use of frame systems to keep the edges of the laminated glass dry
2. Use SSG's [DuraSafe-SGP](#), a configuration with an interlayer 100x stiffer than conventional interlayer, and with a high-edge stability

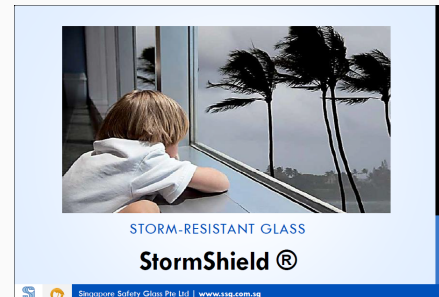
**Food-for-thought:
Is delaminated glass still a safety glass?**



Do you remember?

In #ssg Issue 2, we mentioned **Storm-Resistant Glass** as *Glass of the Future*, serving for *Natural Disaster-Proof Forts*.

Still a fresh idea?
Our brochure for StormShield®
is out!



[Download Brochure](#)

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