

Net Present Value of 30 year-energy-saving for facade refurbishment strategies

		1	2	3
		Completely Glazing A <sub>g</sub> /A <sub>tot</sub> 90%	Bipartite A <sub>g</sub> /A <sub>tot</sub> 90%	Tripartite A <sub>g</sub> /A <sub>tot</sub> 90%
1	Selective/Low E Glazing No shading device	114 €/m²	124 €/m²	136 €/m²
2	Low E Glazing External roller shade	129 €/m²	135 €/m²	143 €/m²
3	Low E Glazing External venetian blind	125 €/m²	131 €/m²	141 €/m²



## Modular framing system

Stick/Unitized "plug and play" solution

#### Active microfluidic thermal storage solution

Based on capillary glass sheets using a microfluidic material for thermal heat storage and diversion

# Façade BiPV

SOA Perovskite PV cells

## **Transparent Module**

Low-e Insulation Glass Unit (IGU) with functional nanocoatings

Self-cleaning, reflective, photocatalytic properties and wavelength control for perovskite's power generation, etc.

### **Opaque Module**

Superinsulation Vacuum Insulation Panel (VIP) in a skin frame with functional nanocoatings

UV and weatherability resistance, self-cleaning, fire resistance, etc.

#### Latent heat storage system

Phase Change Materials (PCM)

# **Building electric** storage system

Using second-life e-car batteries Solar power generation and batteries connected in a dedicated microgrid at building level

