



Optically clear



LEED and beyond



ENERGY
PRODUCTION



Field
Installation
Friendly

Converts any light to
electricity

Architecture



New and retrofit
installations

Excellent ROI



Energy Glass™ is a patented optically clear photovoltaic (PV) building window system that passively generates electricity from sunlight, diffused, ground-reflected or ambient light.

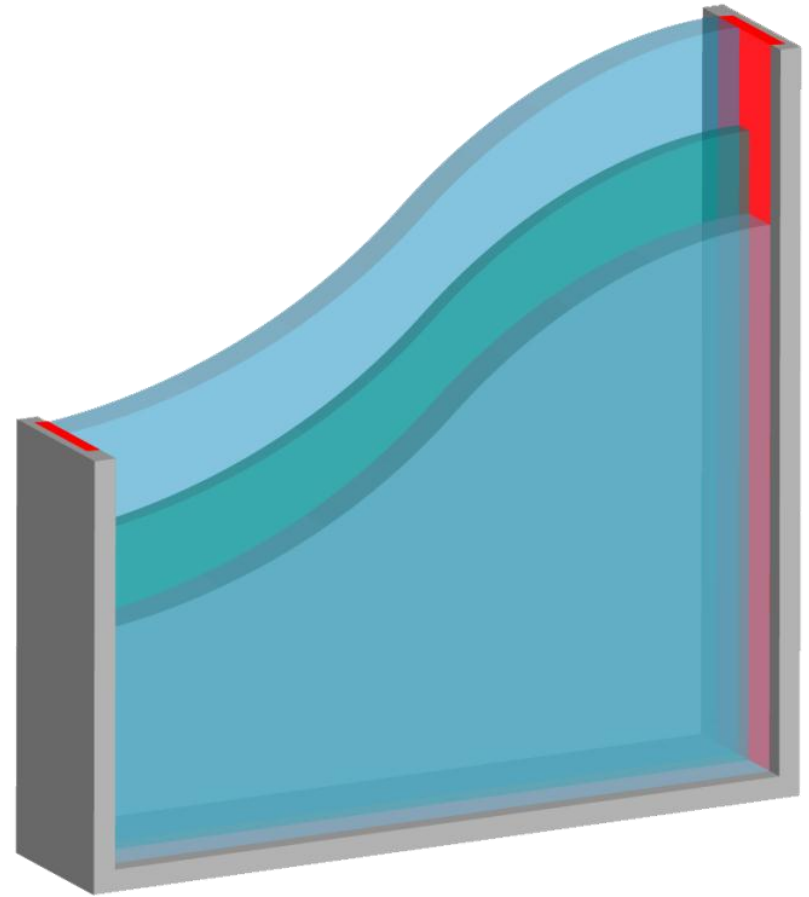
DESCRIPTION

EnergyGlass™

EnergyGlass™ is a patented optically clear glass that offers a value-added solution for power independence from the main electrical grid.

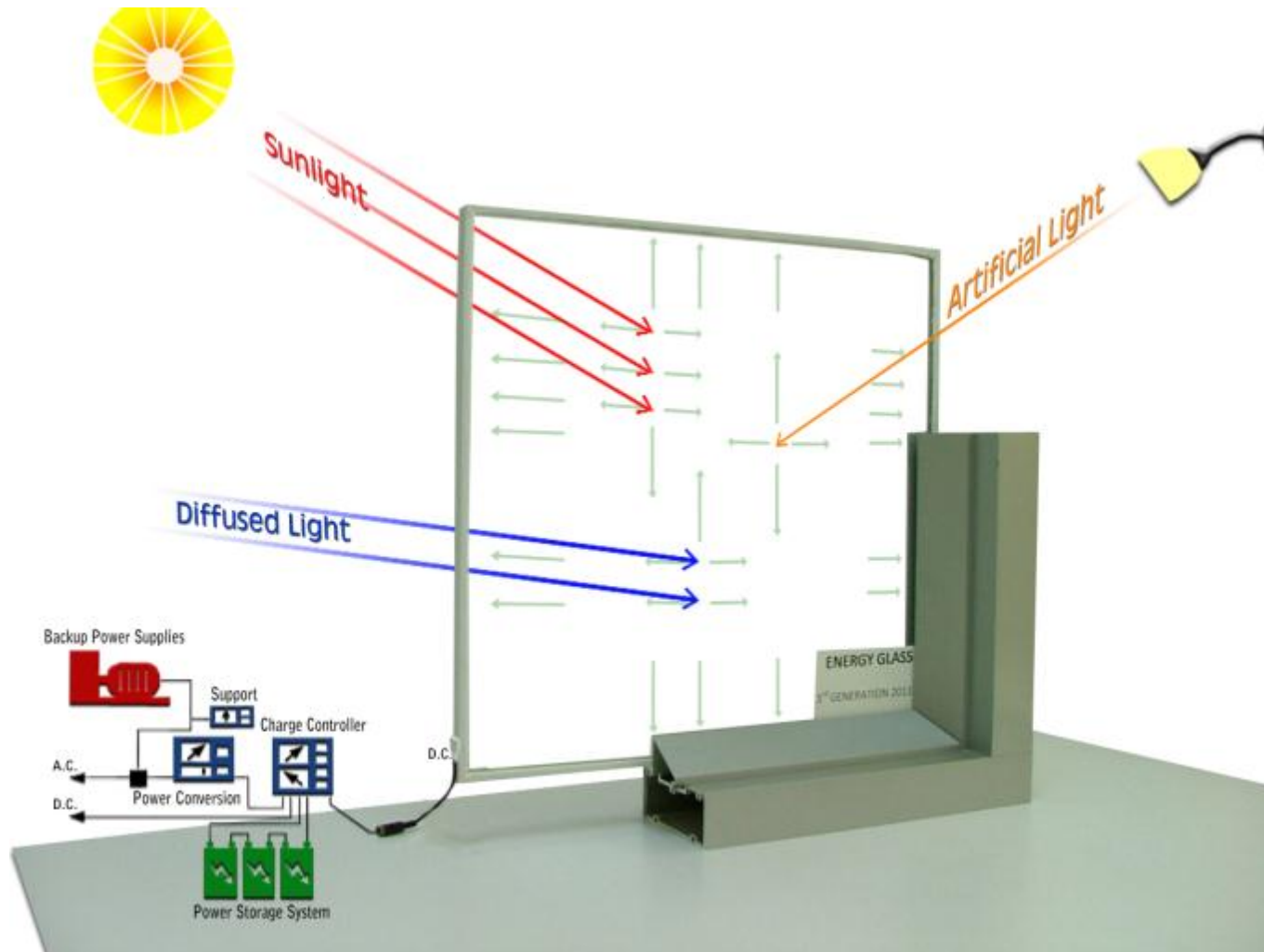
EnergyGlass™ has the ability to produce (1 – 2) watts per square foot for up to 12 hours during the day (dependent on location).

EnergyGlass™ by its standard low construction cost is also bomb blast, security, impact and high wind pressure resistant.



DESCRIPTION

EnergyGlass™





Standard Energy Glass™ Performance Values

- Total nominal thickness: 9/16”
- Total weight per sq. ft.: 6.92 lbs.
- Visible light transmittance: 88%
- U-Value: 1.00
- Solar heat gain coefficient: 0.57
- Total solar energy transmittance: 46
- Shading coefficient: 0.79%
- STC: 42

Energy Glass™ can be easily and cost effectively custom fabricated to enhance all performance values stated above.

COMPARISON WITH SOLAR PV PANELS

EnergyGlass™



- Let's take a 4-story square or rectangular building with 30,000 square-feet of exterior glass installed and 7,500 sq-ft of roof space (assuming $\sim 30,000/4 = 7,500$)
- Let's say Roof-Top Solar PV panels occupy 20% of the roof space \rightarrow 1,500 sq-ft
- Solar panel energy production = $\sim 8\text{W/sq-ft} * 1,500 \text{ sq-ft} * 6\text{-hrs/day} = 72\text{kWh/day}$
- Energy Glass™ generation = $\sim 2\text{W/sq-ft} * 30,000 \text{ sq-ft} * 12\text{-hrs/day} = 720\text{kWh/day}$
- Okay, let's say Roof-Top Solar PV panels occupy 50% of roof space \rightarrow 180kW/day

What if this bldg were 8-stories tall? 12-stories? 20-stories \rightarrow Solar PV power output remains constant, while Energy Glass™ generation would double, triple or quintuple.