



**EMPOWERED
WINDOWS**

Commercial Office Building Case Study

TECHNICAL ANALYSIS

📍 400 Capitol Mall Sacramento, CA USA



675,000 kWh

Annual energy produced by solar installation



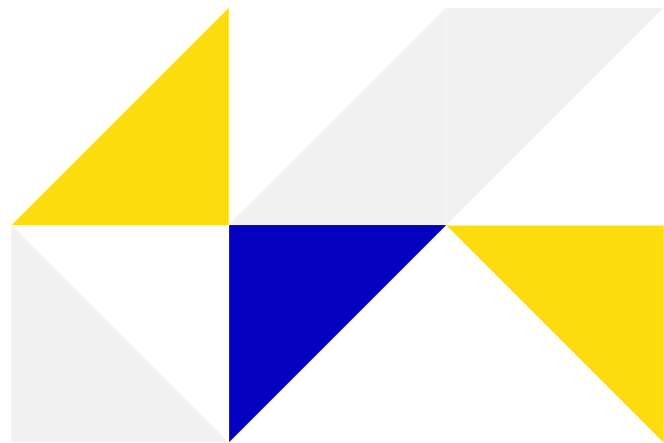
21,000 m²

Usable surface area



22.1%

Portion of building energy offset by solar



NEXT BIPV FAÇADE



STANDARD ROOFTOP PV



VS



Floor area: ~50,000 m² | 30 story building. | Built in 1990

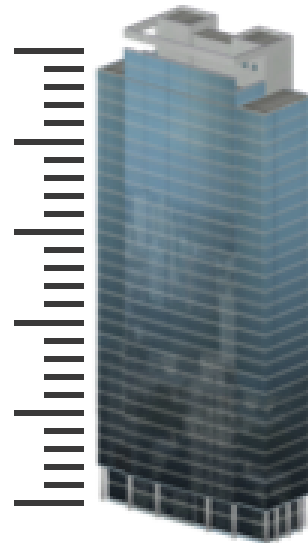
INFINITE POWER DENSITY

NEXT BIPV windows have lower power generation per panel area than conventional non-transparent PV. However, there is significantly more façade surface area available compared to the rooftop of a building, which enables higher overall power generation for the building. In fact, our solution provides near-infinite power generation considering the footprint of the facade.

Limited Area for Rooftop PV



Significant Façade Area for NEXT BIPV Windows



PRODUCT 1 SPECIFICATIONS

Specifications for our first product are based on the specific requirements provided by our North American partner and will be applicable to a large portion of the European market for commercial glass.

- Neutral gray color
- 32% VLT
- 35 W/m² energy output (3.5% PCE)
- Performs well at high angles and low-light; ~15% power efficiency ultimately achievable with 50% VLT



BENEFITS

Increase Asset Resilience

Reduced reliance on grid power, protection from rising tariffs, and increased resilience during network disruptions.

Corporate Responsibility

Showcase commitment to reaching the Energy Performance of Buildings Standard (EPB) and REPowerEU plans to make solar the largest electricity source in the EU.

Differentiate Assets

Attract ethically/environmentally-minded tenants and gain exposure through environmental, real estate, and energy innovation.

TESTIMONIAL



"We've informally collaborated with NEXT for several years, providing them with materials and technical feedback. We're excited to announce our relationship and work even more closely with NEXT to introduce their unique PV coatings into some of our largest commercial building markets."

ALDERLAN VITALINO

Value-Added Director,
Architectural Glass Europe

