

Transforming curtain wall facades into elegant power generators with Invisible energy, seamless architecture

The collaboration and iterations during the design phase between Glass To Power and Gualini resulted in a solar energy façade that represents a breakthrough in architectural photovoltaic integration, demonstrating design flexibility and aesthetic excellence while producing energy in a building-integrated solar solution.

Glazing dimension	Frame dimension	W/glazing	W/m ²
1250x1950 mm	32 mm	30	12
1250x1950 mm	52 mm	50	20
1250x1950 mm	100 mm	100	40
1250x1950 mm	150 mm	150	60



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HELI-ON
Solar energy glazing

GUALINI
beyond the surface

HELI-ON × BESPOKE CURTAIN WALL FACADE

SOLAR ENERGY FACADE
powered by Glass To Power and Gualini



DESIGN BREAKTHROUGH

Invisible energy
performance

Heli-On's solar technology integrates seamlessly with Gualini's custom architectural façade, transforming the photovoltaic frame into a hidden energy-generating component, preserving design integrity.



Key Achievements in design integration

INVISIBLE ENERGY

Photovoltaic frames are fully concealed within façade profiles, delivering energy without altering the design.

ADAPTIVE CUSTOMISATION

Fully customisable for dimensions, glass layers, and frame colours, ensuring perfect integration with cellular systems.

ARCHITECTURAL VERSATILITY

Supports bespoke designs, maintaining the original intent while transforming solar technology into a design asset.

Manufacturing Excellence: Plug & Play Integration

Heli-On integrates seamlessly into Gualini's continuous façade production, ensuring compatibility without disrupting workflows. The solution showcases adaptability to established processes and large-scale production.

Key Achievements in manufacturing integration

PROCESS COMPATIBILITY

Fully integrates with existing production methods, requiring no workflow changes.

INSTALLATION FLEXIBILITY

Plug-and-play design adapts to various façade configurations and custom systems.

PRODUCTION OPTIMISATION

Supports specialised facilities and scales solar integration as a standard manufacturing option.

