

LA CUB

Bordeaux (F)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	Communauté Urbaine de Bordeaux (Le CUB)	www.lacub.fr
Architect	BDM Architectes	www.bdm-architectes.com
Energy Consultant	ISSOL	www.issol.eu
PV Installer	Defretin Ingenierie	www.castelalu.fayat.com

BUILDING

Completion year	2010-2011	Building	2010-2011	Plant
Category	New	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

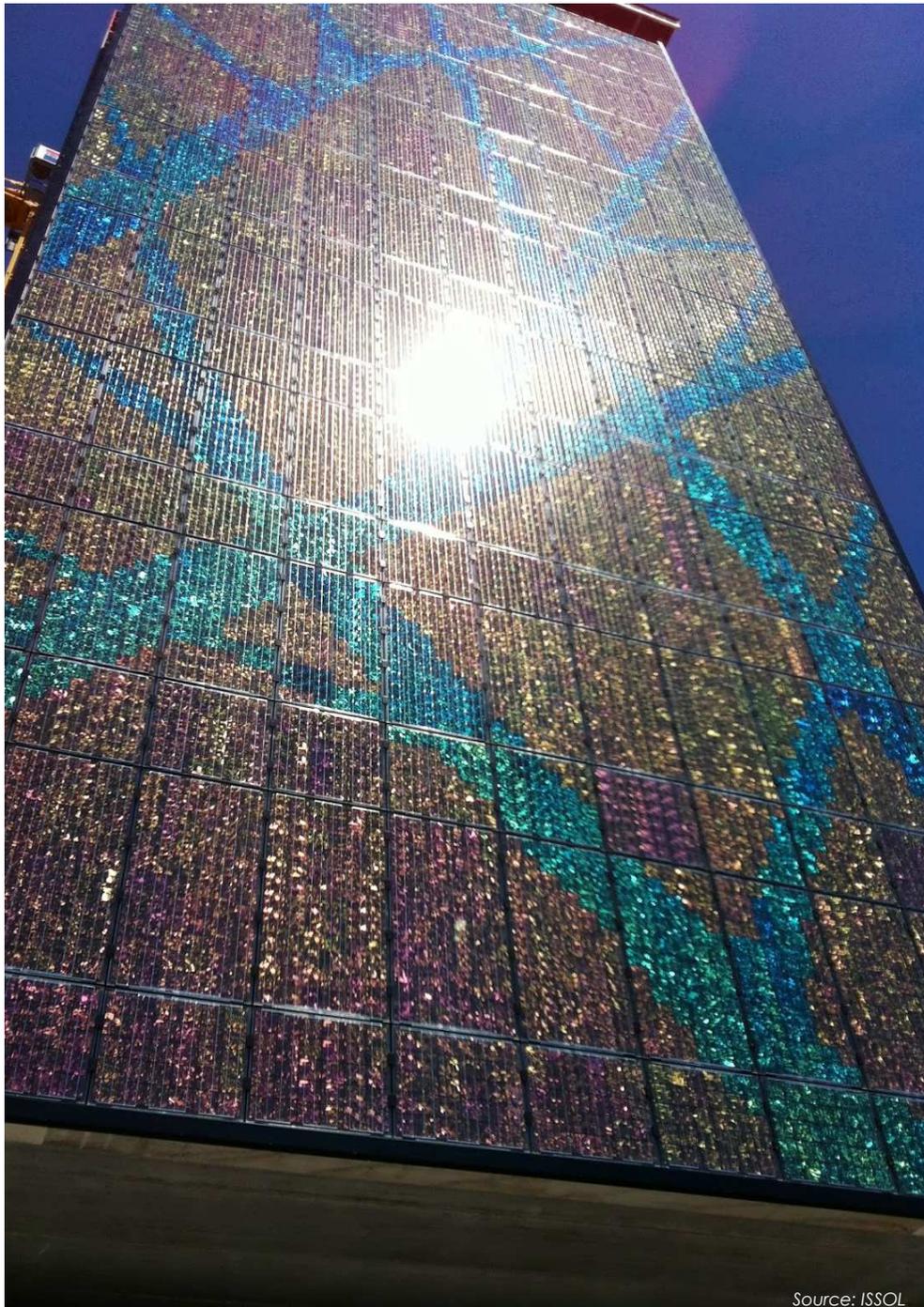
Building Energy Performance kWh/m²y 31.94

Description

This is the new building office of the Bordeaux Urban Community, located in Mériadeck, a few kilometers away from the old site of CUB. This 9-storey administrative building is built with a "top and down" method, and it is the first public Plus Energy Building in Bordeaux. Thanks to the high efficient technologies used for air cooling and heating, insulation, ventilation and also lighting systems the building was labeled HQE® and BBC Effinergie. The main architectural characteristic of the building design is the south façade. It is completely realized by PV glass, with special modules of different colors, that looks like a big artistic mosaic. The serigraphy of the green tree on a pink and golden background, changing color depending on the received light, symbolizes the environmental approach of CUB.

Acknowledgments

Haute Qualité Environnementale (HQE®) ;
 Bâtiment de Basse Consommation (BBC Effinergie)



Source: ISSOL

BiPV Details

LOCATION OF PLANT

Roof	Flat roof	Sloped	Curved
Façade	Cladding	Balcony	Greenhouse Curved
Glass	Façade	Roof	Solar shading Canopy
Orientation	South	West	East North
BiPV System	Façade opaque cladding (Cold façade) On-Roof Overlapped System (BAPV)		

ARCHITECTURAL EVALUATION

Color	Pink; golden; green
Transparency	Opaque
Frame	Frameless

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
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DESCRIPTION custom made solar modules.

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells		
	Module	CENIT Design-ISSOL (laminated safety glass PV modules)	
Power	kWp	40	
Size	m²	350 (façade); 900 (roof)	
Energy production	kWh/year	119,000	
Cost	€/m²	-	