



High-pressure Pump Station Rietli

Goldach, Switzerland

Building Details

CONTACTS

	Name	Website (or e-mail)
Owner	Regionalen Wasserversorgung St.Gallen AG RWSG	www.rwsg.ch
Architect	-	-
Energy Consultant	Maxwave AG	www.maxwave.ch
PV Installer	Schwager	www.schwager-bedachungen.ch/

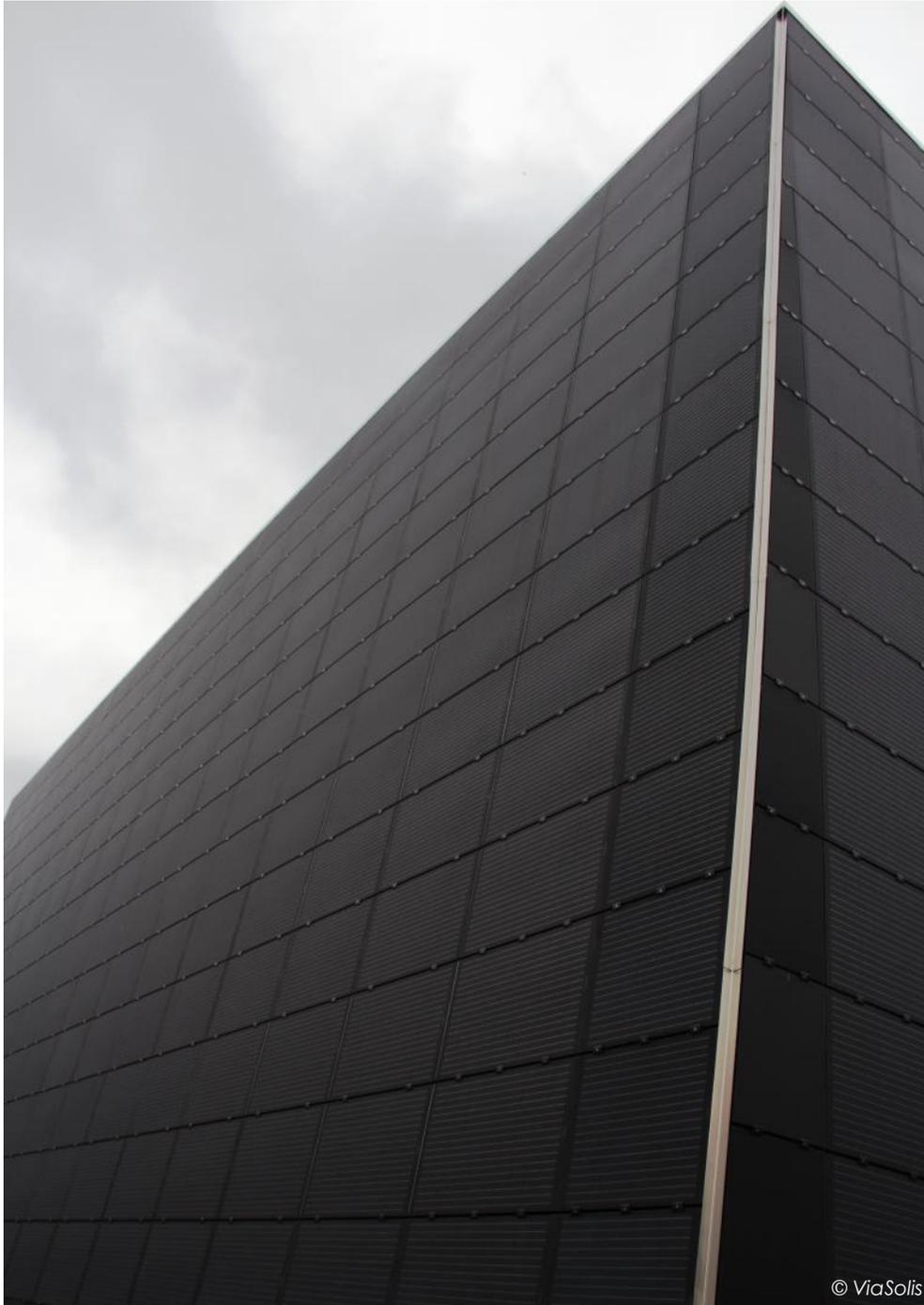
BUILDING

Completion year	2015 PV Plant			
Category	New	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other
Building Energy Performance	kWh/m²y -			

Description

The high-pressure pump station Rietli II is a building belonging to the Regional Water Supply St.Gallen AG RWSG. The southeast and southwest parts are characterized by 476 black BIPV glass/glass modules to realize a BIPV system with a capacity of 130.7 kWp, capable to provide electricity to 43 houses.

The modules are installed as cladding elements of the rainscreen facades and mounted with laminate module clamps. The use of black dummies elements allows to perfectly fit the building facades and to realize an homogeneous dark skin.



© ViaSolis

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	Facade opaque cladding (PV modules)		

ARCHITECTURAL EVALUATION

Color	Black
Transparency	Opaque
Frame	Frameless

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION	476 glass-glass modules and dummies elements with specific shapes		

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	Monocrystalline silicon	
	Module	ViaSolis SUPREME glass/glass 275 Wp	
Power	kWp	131	
Size	m²	950	
Energy production	kWh/year	-	
Cost	€/m²	-	

Detail: modules joints and connections with openings



© ViaSolis

BiPV Details

BUILDING SYSTEM INFORMATION

Transparency	OPAQUE	TRASPARENT	G Value
Constructive system	MASSIVE BUILDING		LIGHTWEIGHT
Ventilation system	NOT VENTILATED	MICROVENTILATED	NATURAL VENTILATED
U value (W/m ² K)	- (Facade)	- (Roof)	- (floor) - (Windows)

Detail: corner connection and ventilated gap



© ViaSolis