



© DESIGNERGY

Designergy: Rovio Garage

Rovio (CH)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	Mr. Piffaretti	-
Architect	Arch. Testa	-
Energy Consultant	Designergy	www.designergy.ch
PV System Manufacturer	Designergy	www.designergy.ch

BUILDING

Completion year	6/2016	Building	6/2016	PV Plant
Category	New	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other

Building Energy Performance	kWh/m²y	-
------------------------------------	---------------------------	---

Description

This small building, used as a garage, is located in a mountain street near a residential house in Rovio/TI. It has been realized with a wood structure and a multifunctional BIPV system has been used as a roof. The key-factor of this intervention is the easy installation of a PV system perfectly integrated in the roof due to the polyvalent innovative Designergy TCR system.

Aknowledgments	-
-----------------------	---



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	Multifunctional In-Roof Solar System with large tiles (PV modules)		

ARCHITECTURAL EVALUATION

Color	black
Transparency	opaque
Frame	frameless

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION	The multifunctional system combines mechanical strength, water tightness, thermal insulation and energy production.		

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	54 cells (module Sunage 240 Wp)	
	Module	Designergy TCR 2054 module	
Power	kWp	8	
Size	m²	55	
Energy production	kWh/year	7150	
Cost	€/m²	-	