



Rural House Gallay



Address

Route du village 50, 1730 Ecuvilens, Switzerland



Location

46°45'30" N | 7°04'56" E



🕅 Altitude 689 MAMSL

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A pilot project

In this pilot project, concerning a 1859 rural house, were used coloured (terracotta) photovoltaic modules developed by the CSEM of Neuchâtel specifically for sites protected at the level of cultural heritage. This application demonstrate that the energy transition is not happening to the detriment of architectural quality, even better this project successfully overcame the ultimate barrier (aesthetics) to a widespread deployment of solar technologies.



27.2 kWp PV installation made of clay coloured modules. Source: Solstis SA..



Solar-Terra PV modules were developed to replace the traditional terracotta roof on historic buildings. Source: Patrick Heinstein, CSEM.

Energy

Active solar surface Active solar surface ratio Peak power Building skin application

262 m ²	
27 kWp	

Energy production 29,830

Self - consumption

49%



Building characteristics

Building typology Residential

Construction type Retrofit

Year of construction 1859, retrofit 2018 **Energy reference surface** 250 m²

Energy index 63 kWh/m²a (heating and electricity)

Energy labelling



Installation of the photovoltaic tiles. Source: Solstis SA.

BIPV module

Product Solrif XL as laying system

Manufacturer n/a

Cell technology Mono-crystalline **Cell colour** Terracotta, semi-matt

Dimensions 1,530 x 542mm

Specific power 120 Wp/m²



Parties involved

Awards, recognitions & info.

Owner

Alexandre Gallay

Architect Lutz architectes

Photovoltaic installer Solstis SA

Specialist planner CSEM SA

Photo Solstis SA and Patrick Heinstein, CSEM

Awards and recognitions

Schweizer Solarpreis 2018

Sponsor Swiss Federal Office of Energy, Canton of Fribourg, Üserhuus AG, Solstis SA

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