



## SUPSI

Swiss BiPV Competence Centre



SOURCE: Tosoni Far System

# A22 Autobrennero Highway Headquarters

Trento (I)

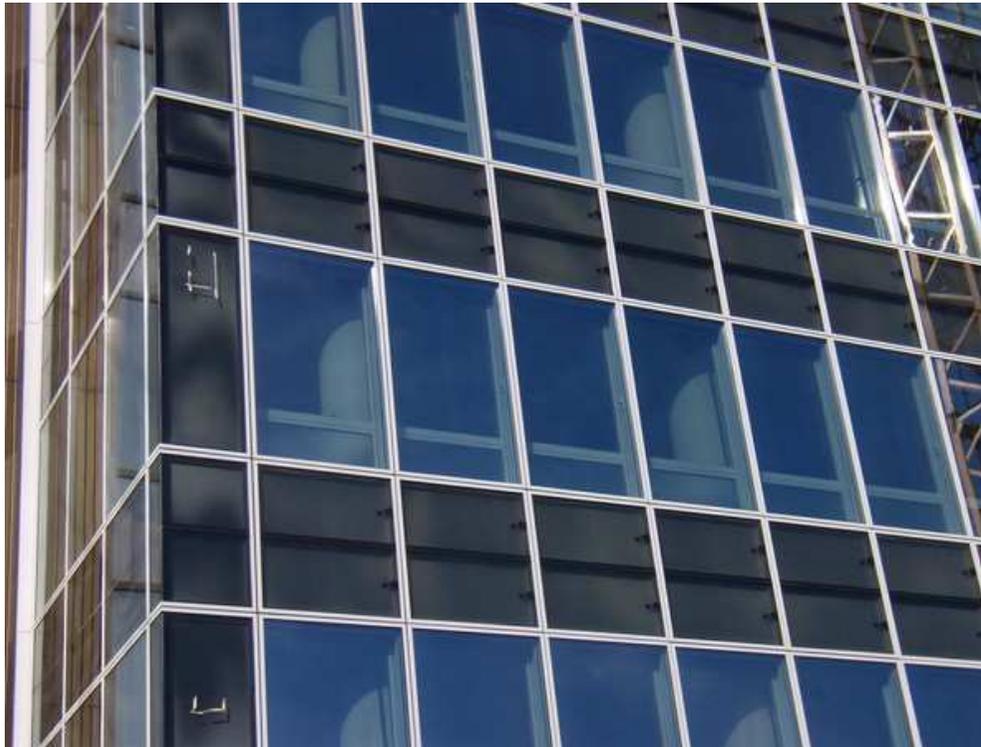
## Building Details

CONTACTS	Name	Website (or e-mail)		
<b>Owner</b>	Autostrada del Brennero S.p.A.	<a href="http://www.autobrennero.it">www.autobrennero.it</a>		
<b>Architect</b>	Studio Associato Giovanazzi	<a href="http://www.marcogiovanazzi.it">www.marcogiovanazzi.it</a>		
<b>Energy Consultant</b>	FAR SYSTEMS S.r.l.	<a href="http://www.farsystems.it">www.farsystems.it</a>		
<b>PV Installer</b>	FAR SYSTEMS S.r.l.	<a href="http://www.farsystems.it">www.farsystems.it</a>		
<b>BUILDING</b>				
<b>Completion year</b>	Building	2009 PV Plant		
<b>Category</b>	New	Renovation	Enlargement	Other
<b>Typology</b>	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Other
<b>Building Energy Performance</b>	<b>kWh/m<sup>2</sup>y</b>	-		

## Description

The A22 Highway Headquarter is located at the Trento Centro motorway exit. The architect designed the new extension of the existing building, adding a further 3,130 square metres office space, characterized by a curtain wall system in the new building's façade. The double skin façade around three sides of the building has a total surface area of 720 square metres. The east façade is composed of a full vision section with high insulation double glazing and PV glass, 20% semi-transparent, installed in correspondence of string courses. The energy derived is used to power the building's electrical services. This project was the first in which a photovoltaic system was installed inside a high performance, advanced technology, double skin façade. The façade is thermal insulated ( $U= 1,1 \text{ W/m}^2\text{K}$ ) and the ventilation of the interspace is managed by a air handling systems inside the false ceiling.

## Aknowledgments



SOURCE: Tosoni Far System

## BiPV Details

### LOCATION OF PLANT

<b>Roof</b>	Flat roof	Sloped	Curved
<b>Façade</b>	Cladding	Balcony	Greenhouse Curved
<b>Glass</b>	Façade	Roof	Solar shading Canopy
<b>Orientation</b>	South	West	East North
<b>BiPV System</b>	Double skin façade		

### ARCHITECTURAL EVALUATION

<b>Color</b>	Black
<b>Transparency</b>	20%
<b>Frame</b>	Aluminium frame

### COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION			

### SPECIFICATION

<b>Photovoltaic</b>	Monocrystalline	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	CIS (Copper Indium Selenium)	
	<b>Module</b>	128 panels Würth Solar 1175x600x(3+5)mm	
<b>Power</b>	<b>kWp</b>	7	
<b>Size</b>	<b>m<sup>2</sup></b>	97	
<b>Energy production</b>	<b>kWh/year</b>	-	
<b>Cost</b>	<b>€/m<sup>2</sup></b>	-	