



# Wagner House

## Windischgarsten (A)

### Building Details

#### CONTACTS

	Name	Website (or e-mail)
<b>Owner</b>	Elektrotechnik Wagner	<a href="mailto:w.wagner-wdg@aon.at">w.wagner-wdg@aon.at</a>
<b>Architect</b>	-	-
<b>Energy Consultant</b>	Ertex Solar GmbH	<a href="http://www.ertex-solar.at">www.ertex-solar.at</a>
<b>PV Installer</b>	-	-

#### BUILDING

Completion year	Building	Plant		
<b>Category</b>	<input checked="" type="radio"/> New	Renovation	Enlargement	Other
<b>Typology</b>	<input checked="" type="radio"/> Residential	Administration	Industrial	Sport
	<input type="radio"/> Agricultural	<input type="radio"/> Urban	<input type="radio"/> Historical	<input type="radio"/> Other

#### Building Energy Performance

	kWh/m <sup>2</sup> y
<b>Description</b>	-

#### Description

This is the realization of a residential building for Elektrotechnik Wagner client built on the hill of Windischgarsten, a little mountain town in Austria .

The house is characterized by a ventilated façade system and a blue colored PV plant installed on three side of a volume in correspondence of a terrace .

The solar system consists of laminated safety glasses, mounted in a staggered dove -tail construction. To achieve a perfect overall look, the reverse side of the modules were enamelled and for the northside, dummy cells with a PV-design were used.

There is also 4 solar thermal panels installed on the flat roof.

#### Aknowledgments

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SOURCE: ertex solar



## 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>	Facade opaque cladding; Balcony			

### ARCHITECTURAL EVALUATION

<b>Color</b>	Blue
<b>Transparency</b>	Opaque
<b>Frame</b>	Black frame

### COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
<b>DESCRIPTION</b>	Special dimensions and shapes of some modules; for the northside, dummy cells with a PV-design were used.		

### SPECIFICATION

	Monocrystalline	Multicrystalline	Thin Film
<b>Photovoltaic</b>			
<b>PV Module</b>	<b>Cells</b>	-	
	<b>Module</b>	46 VSG 6/6 modules with fully enamelled back surface	
<b>Power</b>	<b>kWp</b>	9.5	
<b>Size</b>	<b>m<sup>2</sup></b>	-	
<b>Energy production</b>	<b>kWh/year</b>	-	
<b>Cost</b>	<b>€/m<sup>2</sup></b>	-	