



# Town hall Ludesch (A)

## Building Details

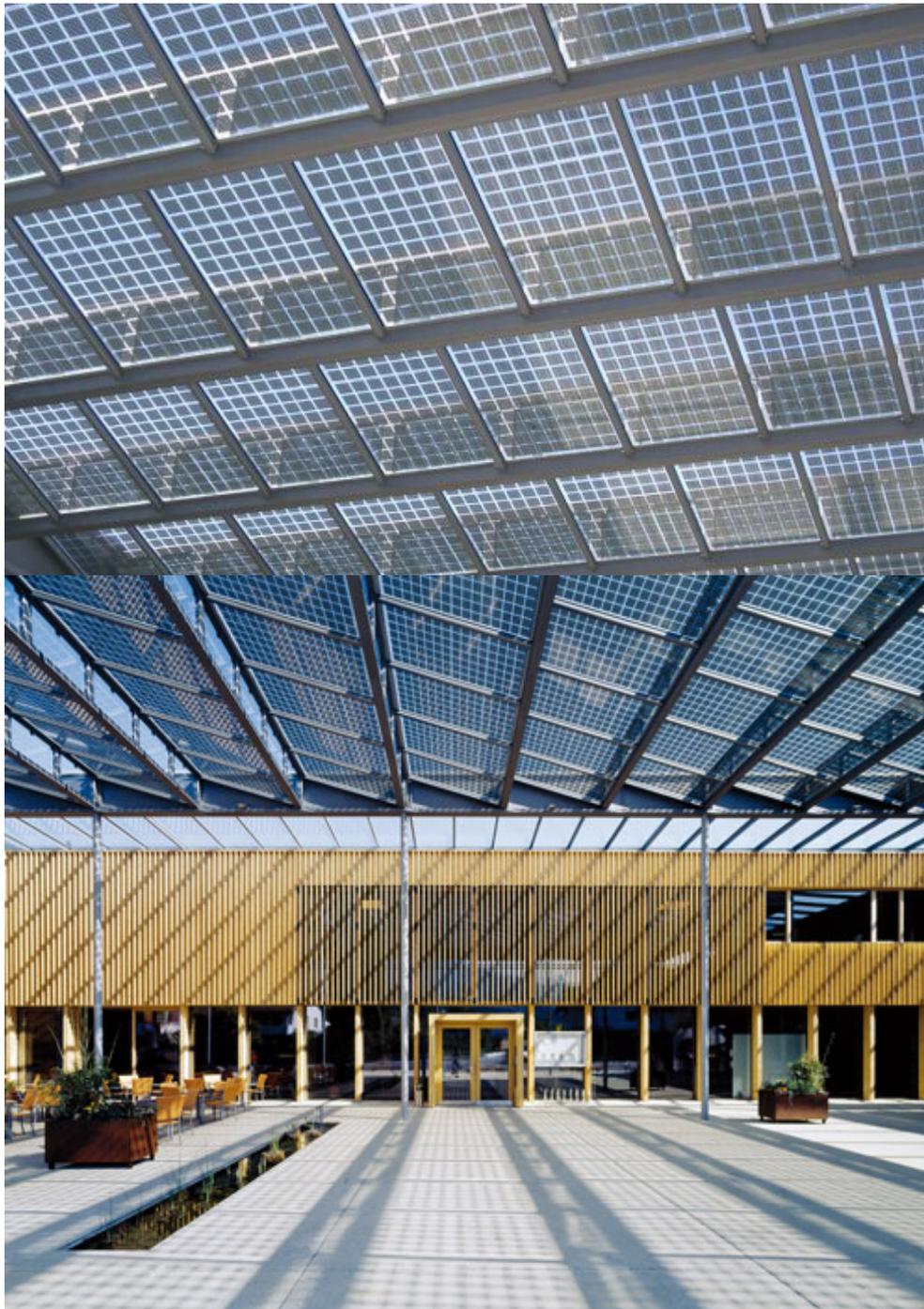
CONTACTS	Name	Website (or e-mail)
Owner	Municipality of Ludesch	<a href="http://www.ludesch.at">www.ludesch.at</a>
Architect	Hermann Kaufmann ZT GmbH	<a href="http://www.kaufmann.archbuer">www.kaufmann.archbuer</a>
Energy Consultant	Ertex Solar	<a href="http://www.ertex-solar.at">www.ertex-solar.at</a>
PV Installer	Solartech Matis	<a href="mailto:info@matis-solartech.at">info@matis-solartech.at</a>

### BUILDING

Completion year	2006 Building	2006 PV Plant	
Category	<input checked="" type="radio"/> New	<input type="radio"/> Renovation	<input type="radio"/> Enlargement
Typology	<input type="radio"/> Residential	<input type="radio"/> Administration	<input type="radio"/> Industrial
	<input type="radio"/> Agricultural	<input checked="" type="radio"/> Urban	<input type="radio"/> Historical
			<input type="radio"/> Other

### Description

The three volumes of the community centre define a new square, which is covered with translucent photovoltaic elements. The solar canopy shades the village square and protect it from rain also allowing a nice lighting of the space below. Considering the location in a snowy area, and the assembly on a shed roof, the PV modules had to meet the highest standards of material, wiring and mounting. The PV modules which are almost 2,5 m<sup>2</sup> in size, were therefore calculated from structural engineers for usual local snow loads. Due to the large surfaces of the individual panes and the thicknesses of the glasses, each module weighs about 93 kg.



## BiPV Details

### LOCATION OF PLANT

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

### ARCHITECTURAL EVALUATION

<b>Color</b>	Anthracite
<b>Transparency</b>	17.5 %
<b>Frame</b>	Frameless (stick system glazed roof)
<b>Acknowledgements</b>	Austrian solar award 2006

### SPECIFICATION

<b>Photovoltaic</b>	<b>Monocrystalline</b>	Multicrystalline	Thin Film
<b>PV Module</b>	<b>Cells</b>	Transparent Sunways Solar Cells, 125	
	<b>Module</b>	120 Ertex Solar glass laminate panels	
<b>Power</b>	<b>kWp</b>	19.08	
<b>Size</b>	<b>m<sup>2</sup></b>	204.2	
<b>Energy production</b>	<b>kWh/year</b>	16'000	