



# Fire Department Houten (NL)

## Building Details

### CONTACTS

#### Owner

Municipality of Houten

[www.houten.nl](http://www.houten.nl)

#### Architect

Samyn & Parteners

[www.samynandpartners.be](http://www.samynandpartners.be)

#### Energy Consultant

ENECO/REMU

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#### PV Installer

Stroomwerk

[www.stroomwerk.nl](http://www.stroomwerk.nl)

### BUILDING

#### Completion year

2000 Building

2000 PV Plant

#### Category

New

Renovation

Enlargement

Other

#### Typology

Residential

Administration

Industrial

Sport

Agricultural

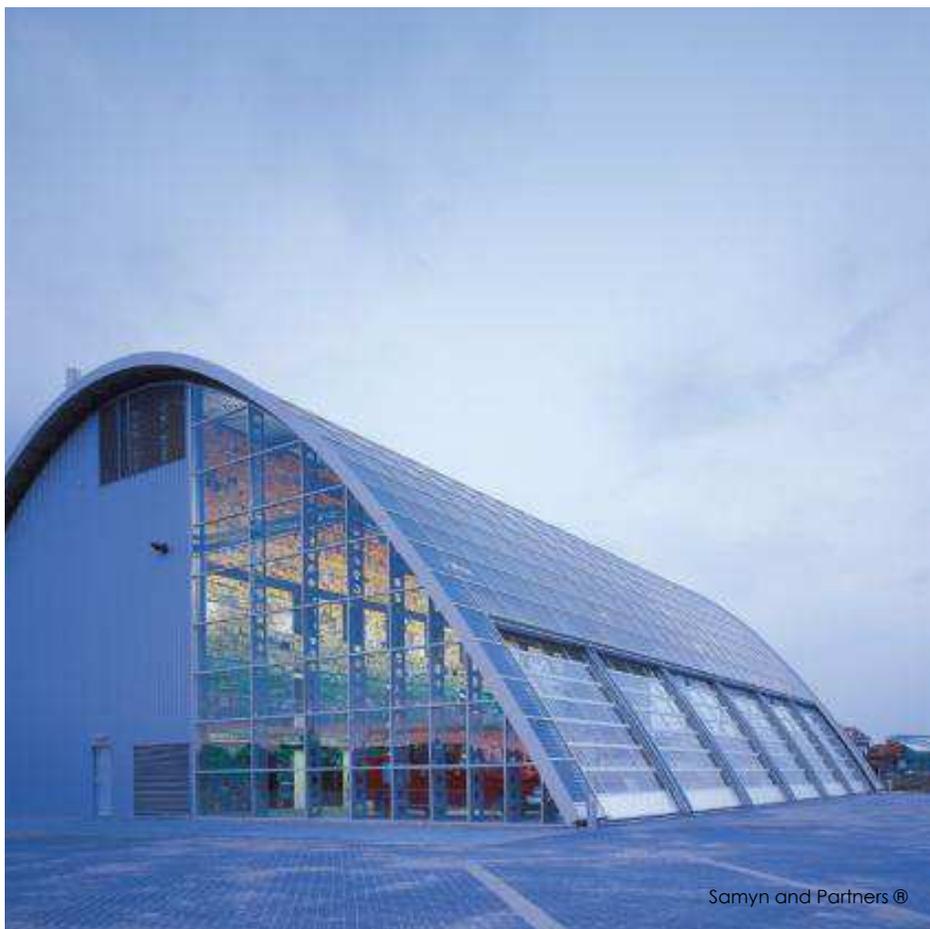
Urban

Historical

Fire Depart.

### Description

The design represents the idea of the shelter, the independence of the shell from the building itself. The choice of a parabolic form for the roof is the result of the search for elegance and optimization of the structure. This hall is intended to serve as a climatic buffer zone, both in winter and in summer. The glazed shell incorporates semitransparent PV glasses with silicon cells.



Samyn and Partners ©



Samyn and Partners ©

## BiPV Details

### LOCATION OF PLANT

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

### ARCHITECTURAL EVALUATION

<b>Color</b>	crystal blue
<b>Transparency</b>	partially
<b>Frame</b>	Schüco profiles
<b>Acknowledgments</b>	Special prize Caoduro (Dedalo Minosse International prize for commissioning a building) nominee Mies Arch Europe Union Prize 2001.

### SPECIFICATION

<b>Photovoltaic</b>	Monocrystalline	<b>Multicrystalline</b>	Thin Film
<b>PV Module</b>	<b>Cells</b>	-	
	<b>Module</b>	Shell Solar transparent laminate	
<b>Power</b>	<b>kWp</b>	23.9	
<b>Size</b>	<b>m<sup>2</sup></b>	400	
<b>Energy production</b>	<b>kWh/year</b>	30 000	