University of Applied Sciences and Arts of Southern Switzerland
Department of Environment Constructions and Design
Institute of Applied Sustainability to the Built Environment

SUPSI

Swiss BiPV Competence Centre

Lerther Railway Station
Berlin (D)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	Deutsche Bahn Station & Service AG	www.deutschebahn.com
Architect	Gerkan Marg and Partner	http://gmp-architekten.de
Energy Consultant	BLS Energieplan GmbH	www.bls-energieplan.de
PV Installer	BLS Energieplan GmbH	www.bls-energieplan.de

BUILDING

Completion year	2002 Building		2002 PV Plant	
Category	New	Renovation	Enlargement	Other
Typology	Residential	Administration	Industrial	Sport
	Agricultural	Urban	Historical	Railway Sta.

Description

The key design principle of Berlin's Central Station is the clear emphasis of the existing course of the railway tracks in the urban environment. Large, lightweight glass roofs as well as two intersecting office buildings translate this principle with architectural means. The roof skin is widely covered by semitransparent PV glasses providing a solar shading and light control.

BiPV Details

LOCATION OF PLANT

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

ARCHITECTURAL EVALUATION

Color	dark blue
Transparency	38.8 %
Frame	frameless
Aknowledgments	Bonda Prize 2003 (John Bonda prize for advancement of photovoltaics awared by EPIA)

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film	
PV Module	**Cells**	BP Saturn mono crystalline 125 x 125 mm (100 cells for module)		
	Module	OPTISOL® M0611100K (780 modules) by Flaheg Solar International GmbH		
Power	**kWp**	189		
Size	**m²**	1872 (active cell surface: 1146)		
Energy production	**kWh/year**	160 000		