



BRT Architekten ©

Tobias Grau Lighting HQ Hamburg (D)

Building Details

CONTACTS

	Name	Website (or e-mail)
Owner	Frankiska Grau for Tobias Grau KG	www.tobias-grau.com
Architect	Bothe – Richter - Teherani	www.brt.de
Energy Consultant	Wennemuth Elektrotechnik	www.wennemuth.com
PV Installer	Frener & Reifer	www.frener-reifer.com

BUILDING

Completion year	2001 Building	2001 PV Plant		
Category	<input checked="" type="checkbox"/> New	<input type="checkbox"/> Renovation	<input type="checkbox"/> Enlargement	<input type="checkbox"/> Other
Typology	<input type="checkbox"/> Residential	<input type="checkbox"/> Administration	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Sport
	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Urban	<input type="checkbox"/> Historical	<input type="checkbox"/> Other

Description

In Hamburg's Rellingen, BRT produced an innovative design concept for the lighting producer Tobias Grau through cylindrical shaped tubes, which are the predominant elements of the development, housing the administration and warehousing. South facades are characterized by PV semitransparent curtain walls with energy and sun-screen function.



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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	Partially semitransparent
Frame	Frameless glass (structural sealant glass)
Aknowledgments	BDA award 1999 architecture in Schleswig-Holstein, 1 st prize (German Architect's Association)

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	RWE Solar (EFG polycrystalline 100x100 mm)	
	Module	Sain Gobain glass solar	
Power	kWp	5.04 + 13.01	
Size	m²	51 + 128	
Energy production	kWh/year	10 800	