



Photo: NexPower

THSRC Changhua Station

Changhua, Taiwan

Building Details

CONTACTS

	Name	Website (or e-mail)
Owner	Taiwan High Speed Rail Corporation (Concession Contract with Government)	www.thsrc.com.tw
Architect	Kris Yao Artech	www.krisyaoartech.com
BIM Consultant	Moh and Associates Inc.	www2.maaconsultants.com
PV Installation	-	

BUILDING

Completion year	07/2015 Building and 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 type="checkbox"/> Industrial	<input type="checkbox"/> Sport
	<input type="checkbox"/> Agricultural	<input type="checkbox"/> Urban	<input type="checkbox"/> Historical	<input checked="" type="checkbox"/> Other
Building Energy Performance	kWh/y	-		

Description

The design of THSR Changhua Station takes the local surrounding into account and it represents a landmark and a gateway for the region. Passengers can enjoy the outside view through the glass facades as well as the natural ventilation and the natural light thanks to the openings integrated into the curved columns. The plane roof is interrupted by the high parts of these curved columns that create a reminiscence of the rice paddies. Moreover, the roof edges extend with canopies that perfectly fit in the building design. These canopies are made of BiPV glass elements to produce electrical energy and also for shadowing the below areas.

Acknowledgments Architizer AA+ Awards 2016



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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
BiPV System	Canopy			

ARCHITECTURAL EVALUATION

Color	Black
Transparency	10%
Frame	Frameless

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION Custom-made laminated BiPV glass with special roof sub-structure			

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	Micromorph solar cells	
	Module	Custom-made NexPower	
Power	kWp	99.38	
Size	m²	1136	
Energy production	kWh/year	-	
Cost	€/m²	-	